Yahoo Group Archive: DrakeRadio (2006 — 2011)

Yahoo Group summary: Drake Radios

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2006-06-02 through 2011-12-31

Source WARC: drakeradio.EYFOPdl.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-06-01T00-05-23Z-e1e146

Messages included in this PDF: 6221

Message records with no body available in the source archive: 2

Messages omitted as spam from this PDF: 16

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Hello!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 00:24:08 UTC
From: donfrasher
Topic: 1 Message: 1

Give a little while to figure out all the options for the list!! I
hope to ba able to add back-up moderators in the future just in case
anything should happen to me.
and Thanks for joining!! I hope this will work out better for all
of us.

73 Don KE7FFM

Please invite other Drake users that you may know to join as well

2. FS: Drake B & C-Line Parts Locator CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 02:45:51 UTC
From: Garey Barrell
Topic: 2 Message: 2

These CDs are _NOT_ just scans of the original "Operation and Service" manuals provided by Drake! (Although High resolution scans of the original manuals ARE included on the CDs!)

What these CDs _DO_ include is information not available anywhere else.

Full color, high resolution photos of the chassis and each PC board, (excluding PTO,) with each part identified and keyed to a tabulated Parts List. These photos will print on 8.5 x 11 paper, but may also be enlarged more than five times on screen for a closer look.

Also included is never before published schematic and other information about the Passband Tuner in the R-4B..

Schematics for all known versions of each receiver and transmitter that may be printed in original full 11 x 17 size, either on your own printer or at a Kinko's or other office support location.

Over 100 pages of miscellaneous additional files, errata sheets and alignment data.

All documents in PDF form and readable on most platforms, (including MAC and LINUX,) with appropriate FREE reader available from Adobe Systems.

Sample pages and full ordering information may be seen at <www.k4oah.com>

Each CD (Specify B Line or C Line) is available for $25 postpaid to US and Canadian addresses only. Additional postage charges for non US/Canada delivery. Inquire.

Coming Soon! Drake 2-B / 2-BQ receiver CD.

Email to <Drake4@...> for more information.

3. Thanks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 06:25:49 UTC
From: Mike-K5VSE
Topic: 3 Message: 3

I want to take a minute to thank those that suggested the new Drake group. I too, was very tired of the SPAM coming in on a daily basis. Over time I'v learned a lot from other members to keep my Drake gear on the air.I do belive this was long over due, and very happy to see the new group started. I hope all will follow.

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
Drake Twins: "C" line, L4-B, and Henry 2KD-5
APA 220, USS Okanogan, LSD31, USS Point Defiance
"In God We Trust"

Thanks
Mike/K5VSE

4. Re: [DrakeRadio] Thanks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 10:04:14 UTC
From: Don
Topic: 3 Message: 4

It was long overdue. Glad to have you aboard. I also would hope
that this group will stay active. On the old group, even with the spam and
no moderator, the lack of flame wars and all the helpfullness is a comment
on the members. not only are Hams a great bunch people, but it seems even
more so to me with the users and collectors of boat anchors and Drakes.
great radios, and even better people.
now that your here, stay awhile and lets see how it all turns out.
73 Don ke7ffm

----- Original Message -----
From: "Mike-K5VSE" <k5vse@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, June 02, 2006 12:25 AM
Subject: [DrakeRadio] Thanks

I want to take a minute to thank those that suggested the new Drake
group. I too, was very tired of the SPAM coming in on a daily basis.
Over time I'v learned a lot from other members to keep my Drake gear on
the air.I do belive this was long over due, and very happy to see the
new group started. I hope all will follow.

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
Drake Twins: "C" line, L4-B, and Henry 2KD-5
APA 220, USS Okanogan, LSD31, USS Point Defiance
"In God We Trust"

Thanks
Mike/K5VSE

Yahoo! Groups Links

5. Let's start

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 23:19:12 UTC
From: Daniel
Topic: 5 Message: 5

Hi folks

I'm here. Let's start without SPAM! Thanks to Don, KE7ffm

Daniel, HB9DDS

6. How can I calibrate?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 23:21:03 UTC
From: Daniel
Topic: 6 Message: 6

Hi folks

1. I have a TR4 and would like to know, how I have to use the CAL Switch correctly (the hole procedure!). I'm not shure about.

2. My S-Meter, compared to my other oldtimers, is very conservative. I can here on my other TRX's an S9 signal and on my drake it is S6. Any suggestions?

Daniel, HB9DDS

7. Re: [Drake-Radios] Re: New Drake group Moderated!!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-02 23:25:02 UTC
From: Don
Topic: 7 Message: 7

sorry about the delay!!! as work some pretty long hours so its early evening during the weekdays before i am able to get to it. hopefully after were up and going for a while there might be a volunteer or two to assist in moderating the group so that we can avoid delays such as that!
Thanks for joining the new group !! allready up to 17 members and it hasn't even been 24 hors yet!!
Its looking like this will work out good for us,

73 Don Ke7ffm
----- Original Message -----
From: Daniel
To: Drake-Radios@yahoogroups.com
Sent: Friday, June 02, 2006 1:40 PM
Subject: [Drake-Radios] Re: New Drake group Moderated!!!

Hi folks

I'm waiting for the approval on the other group. Lets start without SPAM. I think this group
will be closed. I've mailed to the moderator but no reaction!!

Daniel, HB9DDS

SPONSORED LINKS Hobby and craft supply Craft hobby Ham radio
Ham radio sales Ham radio outlet

YAHOO! GROUPS LINKS

a.. Visit your group "Drake-Radios" on the web.

b.. To unsubscribe from this group, send an email to:
Drake-Radios-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

8. Delay's? Don't worry about!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 06:44:40 UTC
From: Daniel
Topic: 7 Message: 8

Hey Don

Dont' worry about. It is just a hobby. So we have to live with "delays". Again thank you for to
be the group chief ;-)

Daniel, HB9DDS

9. Re: [DrakeRadio] Delay's? Don't worry about!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 07:09:40 UTC
From: Bill
Topic: 7 Message: 9

Whatever it takes to keep the spam out. Whats a little delay... Thanks Don....Bill In Ohio...73's...kc8ilp

Daniel <schaeffler@...> wrote: Hey Don

Dont' worry about. It is just a hobby. So we have to live with "delays". Again thank you for to
be the group chief ;-)

Daniel, HB9DDS

SPONSORED LINKS
Craft hobby Hobby and craft supply Ham radio Ham radio antenna Ham radio store

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YAHOO! GROUPS LINKS

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DrakeRadio-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

10. Re: [DrakeRadio] How can I calibrate?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 13:38:23 UTC
From: Don
Topic: 6 Message: 10

I have only used and repaired the tr7, so I am afraid that will not be much help on with this, but as this group is growing pretty quick (21 members all ready!) I would repost the question in a few says if you still have found the answers. give the group a chance to build a little more.

73 Don Ke7ffm

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, June 02, 2006 5:21 PM
Subject: [DrakeRadio] How can I calibrate?

Hi folks

1. I have a TR4 and would like to know, how I have to use the CAL Switch correctly (the hole procedure!). I'm not shure about.

2. My S-Meter, compared to my other oldtimers, is very conservative. I can here
on my other TRX's an S9 signal and on my drake it is S6. Any suggestions?

Daniel, HB9DDS

Yahoo! Groups Links

11. WTB Drake TR4 CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 13:38:44 UTC
From: Daniel
Topic: 11 Message: 11

Hi folks

Looking for a Drake TR4 CW/RIT in godd/excellent condition. Perhaps anybody has one left... ;-)). PSE let me know with any pictures.

Daniel, HB9DDS

12. WTB Drake TR4 CW/RIT + TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 13:39:23 UTC
From: Daniel
Topic: 12 Message: 12

Hi folks

Looking for a Drake TR4 CW/RIT + TR3 in good/excellent condition. Perhaps anybody has one left... ;-)). PSE let me know with any pictures.

Daniel, HB9DDS

13. Re: [DrakeRadio] Delay's? Don't worry about!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 13:40:44 UTC
From: Don
Topic: 7 Message: 13

Thanks for understanding, I think we were all tired of the spam.
73 Don ke7ffm

----- Original Message -----
From: "Bill" <daytonohio@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, June 03, 2006 1:09 AM
Subject: Re: [DrakeRadio] Delay's? Don't worry about!

> Whatever it takes to keep the spam out. Whats a little delay... Thanks
> Don....Bill In Ohio...73's...kc8ilp
>
> Daniel <schaeffler@...> wrote: Hey Don
>
> Dont' worry about. It is just a hobby. So we have to live with "delays".
> Again thank you for to
> be the group chief ;-)
>
> Daniel, HB9DDS
>
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>
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>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "DrakeRadio" on the web.
>
> To unsubscribe from this group, send an email to:
> DrakeRadio-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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14. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-03 16:41:10 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 14

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /DrakeMods2005.pdf
Uploaded by : donfrasher <drfrasher@...>
Description : Drake mods by VE3EFJ

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/DrakeMods2005.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

donfrasher <drfrasher@...>

15. FW: Station for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-04 19:26:33 UTC
From: Don
Topic: 15 Message: 15

would like to offer the following station to the Drake Group.

1. Drake TR-7 Transceiver - Serial #9815 in excellent condition and appearance with basic filters. One original manual in near new condition and one copy of same manual.

2. Drake PS-7 power supply - Serial #8977 in excellent condition and appearance.

3. Drake RV-7 remote VFO - Serial #1175 in excellent condition with several light scratches on top. A copy of the manual is included.

4. Drake MS-7 Speaker - Serial #6170 in excellent condition and appearance.

5. Drake #7077 microphone in excellent condition and appearance along with a second microphone (7077) for parts.

All equipment has extended front feet except the power supply.

I have been using this station on the air for two years now with no problems and good signal and audio reports.

I would like $1,150.00 plus shipping for this station. Any interest please contact me via e-mail off the list.

Thank you to the list.

Lee NE6C
LEEFRM at aol dot com

16. Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-05 12:30:51 UTC
From: Daniel
Topic: 16 Message: 16

Hi folks

I've tested today on my TR-4 the output on 10m (28.400). And I can't tune properly, means I get only about 20W out. ALL other bands are OK (100 - 150W OUT). What happend? Any ideas/solutions?

Daniel, HB9DDS

17. Nr. 2: Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-05 13:37:59 UTC
From: Daniel
Topic: 16 Message: 17

When I have connected the RV-4 and go to position RCT/XMT or XMT, the output power is double, means 40W !!!

Daniel, HB9DDS

18. Re: [DrakeRadio] Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-05 22:04:09 UTC
From: Don
Topic: 16 Message: 18

Hopefully some others on here will be more familiar with this line. were
up to 30 members now and still growing. I started the new group not because
I am a drake genuis (im not), but dealing with the spam got really old.
is there a parisitic choke for ten?? resistor with a coil wrapped
around it? does it look burnt? I would think that could cause it to not
tune correctly and low output on one band like that, but that is just a pure
shot in the dark coming from me.
73 Don ke7ffm

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 05, 2006 6:30 AM
Subject: [DrakeRadio] Power Output on 10M

Hi folks

I've tested today on my TR-4 the output on 10m (28.400). And I can't tune
properly, means I
get only about 20W out. ALL other bands are OK (100 - 150W OUT). What
happend? Any
ideas/solutions?

Daniel, HB9DDS

Yahoo! Groups Links

19. Re: [DrakeRadio] Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-05 23:46:46 UTC
From: Ed Berbari
Topic: 16 Message: 19

Don,

Most of the final tubes used in the old rigs did not have full power at the higher frequencies. As they "weaken" the power at 10 meters is the first to go. I suspect that your finals are just getting weaker.

Ed, W9EJB
----- Original Message -----
From: Don
To: DrakeRadio@yahoogroups.com
Sent: Monday, June 05, 2006 6:04 PM
Subject: Re: [DrakeRadio] Power Output on 10M

Hopefully some others on here will be more familiar with this line. were up to 30 members now and still growing. I started the new group not because I am a drake genuis (im not), but dealing with the spam got really old. is there a parisitic choke for ten?? resistor with a coil wrapped around it? does it look burnt? I would think that could cause it to not tune correctly and low output on one band like that, but that is just a pure shot in the dark coming from me.
73 Don ke7ffm

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 05, 2006 6:30 AM
Subject: [DrakeRadio] Power Output on 10M

Hi folks

I've tested today on my TR-4 the output on 10m (28.400). And I can't tune properly, means I
get only about 20W out. ALL other bands are OK (100 - 150W OUT). What happend? Any
ideas/solutions?

Daniel, HB9DDS

Yahoo! Groups Links

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

20. Re: [DrakeRadio] Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-06 02:13:09 UTC
From: Don
Topic: 16 Message: 20

Thanks Ed! See , I told you I didn't know anything about the older tube rigs !!!
I think the glow is pretty neat, I just don't know enough about them. so for know I'll stick to the TR7 and look on with envy.

73 Don Ke7ffm
----- Original Message -----
From: Ed Berbari
To: DrakeRadio@yahoogroups.com
Sent: Monday, June 05, 2006 5:46 PM
Subject: Re: [DrakeRadio] Power Output on 10M

Don,

Most of the final tubes used in the old rigs did not have full power at the higher frequencies. As they "weaken" the power at 10 meters is the first to go. I suspect that your finals are just getting weaker.

Ed, W9EJB
----- Original Message -----
From: Don
To: DrakeRadio@yahoogroups.com
Sent: Monday, June 05, 2006 6:04 PM
Subject: Re: [DrakeRadio] Power Output on 10M

Hopefully some others on here will be more familiar with this line. were
up to 30 members now and still growing. I started the new group not because
I am a drake genuis (im not), but dealing with the spam got really old.
is there a parisitic choke for ten?? resistor with a coil wrapped
around it? does it look burnt? I would think that could cause it to not
tune correctly and low output on one band like that, but that is just a pure
shot in the dark coming from me.
73 Don ke7ffm

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 05, 2006 6:30 AM
Subject: [DrakeRadio] Power Output on 10M

Hi folks

I've tested today on my TR-4 the output on 10m (28.400). And I can't tune
properly, means I
get only about 20W out. ALL other bands are OK (100 - 150W OUT). What
happend? Any
ideas/solutions?

Daniel, HB9DDS

Yahoo! Groups Links

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21. Re: Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-06 05:56:46 UTC
From: Daniel
Topic: 16 Message: 21

Hi Don + Ed

Thanks for your idea. I just changed the 3 final tubes, adjust the bias and test it again. The
same. Full power on 80/40/20/15 but very low on 10. I've made an optically check around the tubes area, inside the TR4 but I can NOT see any abnormal thing.

Daniel, HB9DDS

22. Yahoo's new format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-07 01:22:31 UTC
From: donfrasher
Topic: 22 Message: 22

Yahoo has change the layout a little with the
email messages used in their groups. If you do not like
it , go to our home page, and towards the top left of the page
where it shows your login name is a link to "edit membership" .
this now has an option to choose the new format or traditional.

73 Don Ke7ffm

23. Re: Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-07 15:12:47 UTC
From: w1kilofoxtrot
Topic: 16 Message: 23

Daniel,

The hint might be that you got more RF output when using the RV-4.
That suggests that the output of the crystal oscillator and PTO might
be weak on 10M, which reduces the total drive to the 12BY7.

You mention you did the alignment procedure. Perhaps you should go
back and make sure the unit was not tuned / adjusted for 11M? That
might help. Do you have the owners manual, or a copy?

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi Don + Ed
>
> Thanks for your idea. I just changed the 3 final tubes, adjust the
bias and test it again. The
> same. Full power on 80/40/20/15 but very low on 10. I've made an
optically check around
> the tubes area, inside the TR4 but I can NOT see any abnormal thing.
>
> Daniel, HB9DDS
>

24. Re: Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-07 23:02:41 UTC
From: Daniel
Topic: 16 Message: 24

Hi Steve

Problem is solved. All OK. I've done a modification (digital display connection) BEORE:

http://aade.com/Cdrake/CDrake.htm

So, if a disconnect the wire from PIN 8 of the V3 tube, all is working properly. I have put the
47pF to far away ot PIN 8 instead DIRECTLC on PIN 8. And perhaps a have to reduce the capacity a little bit.

Thanks for all your infos.

Daniel, HB9DDS

25. Re: [DrakeRadio] Re: Power Output on 10M

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-08 00:17:25 UTC
From: Don
Topic: 16 Message: 25

Thanks for the update!
Glad you got it going.
73 Don Ke7ffm

----- Original Message -----
From: Daniel
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, June 07, 2006 5:02 PM
Subject: [DrakeRadio] Re: Power Output on 10M

Hi Steve

Problem is solved. All OK. I've done a modification (digital display connection) BEORE:

http://aade.com/Cdrake/CDrake.htm

So, if a disconnect the wire from PIN 8 of the V3 tube, all is working properly. I have put the
47pF to far away ot PIN 8 instead DIRECTLC on PIN 8. And perhaps a have to reduce the capacity a little bit.

Thanks for all your infos.

Daniel, HB9DDS

[Non-text portions of this message have been removed]

26. Frequency read?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-09 20:21:41 UTC
From: Daniel
Topic: 26 Message: 26

Hi folks

What do you think about the following:

I made a frequency readout comparison. When I go on my TS-2000 to 14.225 (USB) and then to the same on my Drake TR-4, both redout (analog + digital) are approx. the same. Then I'm changing to a signal on 3.754.45 LSB (TS-2000). The same signal is on my Drake TR-4 at 3.755.20 LSB.

Is it really true, that I should calibrate every time when I'm changing bands? Or is that a missunderstanding on my side? How can I manage that a little bit more comfortable?

Daniel, HB9DDS

27. Re: Frequency read?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-10 14:22:14 UTC
From: w1kilofoxtrot
Topic: 26 Message: 27

Daniel

Because most of the bands on the TR family rely upon heterodyne crystal oscillators to adust the LO frequency, each band must be calibrated if your are measuring the PTO frequency. If you're sniffing the output of the cathode follower, you are reading the actual frequency of interest, +/- any error in the 9 MHz IF frequency. I see you have eliminated this by looking at 20M and 80M. Now, any discrepancy can be accounted for by the difference in the adjustment of the carrier oscillator. You're looking at 750 Hz difference. On 80M, it's Fin + Fpto = Fif (9 MHz). On 20M, it's Fin - Fpto = Fif. If my math serves, you might have the carrier off by 375 Hz, or the crystal filters are off by that same amount.

I don't know the details of the Kenwood, but it might have a small error as well?

For what it's worth, I could (and do, I have 2 TR-3s) live with that size (375 Hz) error.

Hope this helps.

73
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi folks
>
> What do you think about the following:
>
> I made a frequency readout comparison. When I go on my TS-2000 to 14.225 (USB) and then
> to the same on my Drake TR-4, both redout (analog + digital) are approx. the same. Then I'm
> changing to a signal on 3.754.45 LSB (TS-2000). The same signal is on my Drake TR-4 at
> 3.755.20 LSB.
>
> Is it really true, that I should calibrate every time when I'm changing bands? Or is that a
> missunderstanding on my side? How can I manage that a little bit more comfortable?
>
> Daniel, HB9DDS

>

28. WTB: DRAKE 2B OR DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-11 12:03:20 UTC
From: ae2jl
Topic: 28 Message: 28

Hi,
I am looking to purchase either a 2B or SPR-4 receiver. If you have one
and want to sell it pls contact me. Tnx, 73- Joel AE2JL

29. TR-3 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-11 17:01:05 UTC
From: w1kilofoxtrot
Topic: 29 Message: 29

Dishonorable TR-3 No.1 has a relay that I can't keep clean. That means bad receive, intermittent transmit, the works. I've tried paper soaked in solvent, 800 grit auto body 'sand'paper, and sacrifcing a chicken to Papa Legba.

Any suggestions on a replacement unit, possibly one with a cover???

73,
Steve
W1KF

30. [BULK] Re: [DrakeRadio] TR-3 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-12 00:54:02 UTC
From: Don
Topic: 30 Message: 30

http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/RelayCare.htm

This is the best I have came up with with, it gives some methods of cleaning the contacts that maybe you haven't tried yet.
Also, while I do not have a tr-3 here to check, I have a small parts house nearby that has a huge selection of relays instock. if you have any supplier aroundyou might try taking the relay with you to compare not only the specs, but for physical size. often, if they do not have one in stock that matches, they may be able to measure it and do a cross refrence for you. I know that is probably what you had hope to avoid, but it has got me switch replacements on other equipment that worked and fit well.
And please repost the question again in a few days, as we gain more members to the group we might have some one come on board who has allready gone through this process.
I can't believe the chicken didn't work!! might have to try a young goat next time!!

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: w1kilofoxtrot
To: DrakeRadio@yahoogroups.com
Sent: Sunday, June 11, 2006 11:01 AM
Subject: [DrakeRadio] TR-3 relay

Dishonorable TR-3 No.1 has a relay that I can't keep clean. That means
bad receive, intermittent transmit, the works. I've tried paper soaked
in solvent, 800 grit auto body 'sand'paper, and sacrifcing a chicken
to Papa Legba.

Any suggestions on a replacement unit, possibly one with a cover???

73,
Steve
W1KF

[Non-text portions of this message have been removed]

31. Re: [DrakeRadio] TR-3 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-12 03:34:24 UTC
From: Garey Barrell
Topic: 29 Message: 31

Steve -

Drake offered a small mod kit to replace the wired-in relay of the TR-3 and early TR-4, and for the T-4X. It consists of a little PC board with a socket for the "standard" plug-in relay used in "all" other Drake transmitters.

The relay is the P&B (TYCO) R10-E1-Y4-V2.5K available from Mouser and others for about $15.

John Kriner has the PC board and several pages of installation instructions for sale in his EBay store at

<http://tinyurl.com/q8k26>

You can do it "by hand", but the PC board and instructions save a lot of grief!
*
*

73, Garey - K4OAH
Atlanta

Drake B & C-Line Service CDs
<http://www.k4oah.com>

w1kilofoxtrot wrote:
> Dishonorable TR-3 No.1 has a relay that I can't keep clean. That means
> bad receive, intermittent transmit, the works. I've tried paper soaked
> in solvent, 800 grit auto body 'sand'paper, and sacrifcing a chicken
> to Papa Legba.
>
> Any suggestions on a replacement unit, possibly one with a cover???
>
> 73,
> Steve
> W1KF
>
>

32. Re: TR-3 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-12 11:04:51 UTC
From: w1kilofoxtrot
Topic: 29 Message: 32

Garey,

Thanks for the tip. I'll look into that, when I get back from
travel next week!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> Drake offered a small mod kit to replace the wired-in relay of the TR-3
> and early TR-4, and for the T-4X. It consists of a little PC board
with
> a socket for the "standard" plug-in relay used in "all" other Drake
> transmitters.
>
> The relay is the P&B (TYCO) R10-E1-Y4-V2.5K available from Mouser and
> others for about $15.
>
> John Kriner has the PC board and several pages of installation
> instructions for sale in his EBay store at
>
> <http://tinyurl.com/q8k26>
>
> You can do it "by hand", but the PC board and instructions save a
lot of
> grief!
> *
> *
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake B & C-Line Service CDs
> <http://www.k4oah.com>
>

33. R4C filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 01:21:23 UTC
From: outbacktech
Topic: 33 Message: 33

Gday Group,,

I'm looking for a narrow SSB filter for my R4C can anyone help??

Frank VK5MFW

34. Gday All

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 01:24:51 UTC
From: outbacktech
Topic: 34 Message: 34

Indecently, Great to see the new group up and going without the SPAM, well done to the moderator, look forward to reading many interesting posts about my favorite Amateur equipment.

Cheers

Frank VK5MFW

35. Re: [DrakeRadio] Gday All

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 01:43:26 UTC
From: Don
Topic: 34 Message: 35

Thanks , and thanks for the support!! we're up to 38 members now! As
the the group is still on the small side please allow 2 or 3 days for an
answer as many of us are not able to get to our e-mail as often as we would
like.
If after a few days you still haven't got the help you need, please re-post
your questions and I will try to find out what I can. I am not a guru!!
and my only drake experience is with the tr-7. however, If no one else
seems to be able to help, I'll try to check my local experts and such to see
what I can come up with..
Thanks to all for joining !! while I am not the radio genuis, I
will try to keep the list promoted and as spam free as possible.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "outbacktech" <frankwoolfe@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, June 15, 2006 7:24 PM
Subject: [DrakeRadio] Gday All

Indecently, Great to see the new group up and going without the SPAM,
well done to the moderator, look forward to reading many interesting
posts about my favorite Amateur equipment.

Cheers

Frank VK5MFW

36. TR7 Finals Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 15:27:37 UTC
From: n2msqrp
Topic: 36 Message: 36

I have to replace the finals in a TR-7. I've read that the MRF-421 matched pair is a the favored replacement but I'd like to use a pair of matched 2SC2879 transistors. HAs anyone used these 2SC transistors as substitutes?

73,

Mike N2MS

37. Parts needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 15:46:19 UTC
From: Mike-K5VSE
Topic: 37 Message: 37

Good morning to the "New Drake" list.

I just recently bought an L4-B and have seen posted somewhere a site that was selling the power supply board and all parts associated with same. Does anyone have the info on who is selling this kit? Yes, I'm aware the Heathkit Shop makes the board for the AC-4 and will probably replace all three of mine soon. I already have found the chimneys and anode connectors that were missing as well.FYI Ameritron sells the original chimneys that are the tapered type that force the air to move across the anode connector and at a very respectable cost. Better than using Coleman lamp glass. There is a wire wound resistor on a small circuit board between the 80 and 40 meter input coil that is toast. I need to know the value and wattage of this resistor, and possibly the suspect failure the would cause it to burn up if anyone has experienced this same problem.I hope to have this on the air soon, so that the whole station is Drake! Then to use the Henry amp as a door stop.

Thanks to the moderator for keeping all the SPAM out of here

MIke/K5VSE

38. RE: [DrakeRadio] Parts needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 17:45:50 UTC
From: K4GM George
Topic: 37 Message: 38

Mike Bryce at the Heathkit Shop sells the L4-B boards in addition to the AC4R kit.

George K4GM

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Mike-K5VSE
Sent: Friday, June 16, 2006 11:46 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Parts needed

Good morning to the "New Drake" list.

I just recently bought an L4-B and have seen posted somewhere a site that was selling the power supply board and all parts associated with same. Does anyone have the info on who is selling this kit? Yes, I'm aware the Heathkit Shop makes the board for the AC-4 and will probably replace all three of mine soon. I already have found the chimneys and anode connectors that were missing as well.FYI Ameritron sells the original chimneys that are the tapered type that force the air to move across the anode connector and at a very respectable cost. Better than using Coleman lamp glass. There is a wire wound resistor on a small circuit board between the 80 and 40 meter input coil that is toast. I need to know the value and wattage of this resistor, and possibly the suspect failure the would cause it to burn up if anyone has experienced this same problem.I hope to have this on the air soon, so that the whole station is Drake! Then to use the Henry amp as a door stop.

Thanks to the moderator for keeping all the SPAM out of here

MIke/K5VSE

[Non-text portions of this message have been removed]

39. Re: [DrakeRadio] TR7 Finals Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 17:00:39 UTC
From: Don
Topic: 36 Message: 39

I myself haven't had to do it yet, however I have found what looks to be a pretty good report on it. the author of this article states that he did go with the 2SC2879 finals.

http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Amp_Repair/TR7-Amp.htm

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "n2msqrp" <mstangelo@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, June 16, 2006 9:27 AM
Subject: [DrakeRadio] TR7 Finals Replacement

I have to replace the finals in a TR-7. I've read that the MRF-421 matched pair is a the favored replacement but I'd like to use a pair of matched 2SC2879 transistors. HAs anyone used these 2SC transistors as substitutes?

73,

Mike N2MS

40. Re: [DrakeRadio] TR7 Finals Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 20:44:09 UTC
From: Garey Barrell
Topic: 36 Message: 40

Mike -

Yes they work just fine. The article on the WB4HFN site is highly recommended also. Very helpful for the uninitiated to understand just what is going on in the TR-7 final section.

73, Garey - K4OAH
Atlanta

Drake B & C-Line Service CDs
<http://www.k4oah.com>

n2msqrp wrote:
> I have to replace the finals in a TR-7. I've read that the MRF-421
> matched pair is a the favored replacement but I'd like to use a pair of
> matched 2SC2879 transistors. HAs anyone used these 2SC transistors as
> substitutes?
>
> 73,
>
> Mike N2MS
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> Yahoo! Groups Links
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41. Re: [DrakeRadio] TR7 Finals Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-16 21:00:45 UTC
From: Michael St. Angelo
Topic: 36 Message: 41

Thanks to all for responding. The WB4HFN site has lots of useful
information.

73,

Mike N2MS
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, June 16, 2006 4:44 PM
Subject: Re: [DrakeRadio] TR7 Finals Replacement

> Mike -
>
> Yes they work just fine. The article on the WB4HFN site is highly
> recommended also. Very helpful for the uninitiated to understand just
> what is going on in the TR-7 final section.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake B & C-Line Service CDs
> <http://www.k4oah.com>
>
>
>
> n2msqrp wrote:
>> I have to replace the finals in a TR-7. I've read that the MRF-421
>> matched pair is a the favored replacement but I'd like to use a pair of
>> matched 2SC2879 transistors. HAs anyone used these 2SC transistors as
>> substitutes?
>>
>> 73,
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>> Mike N2MS
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>> Yahoo! Groups Links
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42. WTB/TRADE FOR: DRAKE R-7 (OR R-7A)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-17 12:09:30 UTC
From: ae2jl
Topic: 42 Message: 42

Hello,

I am interested in acquiring a DRAKE R-7 (OR R-7A) rcvr. I can trade
my TMC-GPR-90 (with xtal calibrator, original manual) or pay. cash.
Joel AE2JL

43. photo's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-17 14:58:44 UTC
From: Don
Topic: 43 Message: 43

John,
Wow , what a station!!
I wish that my time and budget would allow me a setup like that !!

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

44. RE: [DrakeRadio] photo's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-17 17:23:44 UTC
From: John Page
Topic: 43 Message: 44

Thanks Don. I was first licensed in 1953 and could only drool over the stuff that Collins and others made then. Now I have more time than sense so this is the result. I have a lot more that is not pictured. Heath Mohawk, Apache, HQ 170, HQ 180, SX71,S40, S20, SX28, Several more Kwm2A's. SB-104's. And the list goes on. Also have several Kenwood transcievers. And an FT-1000D.

Hope it doesnt sound like bragging. I dont mean it that way. I just like getting something and restoring it. You woulnt have given a dollar for the 2 32V transmitters. But I did give 50 and it took almost 2 years to finish them. They look brand new and work great. Thats my hobby. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

>From: "Don" <drfrasher@...>
>Reply-To: DrakeRadio@yahoogroups.com
>To: "DrakeRadio" <DrakeRadio@yahoogroups.com>
>Subject: [DrakeRadio] photo's
>Date: Sat, 17 Jun 2006 08:58:44 -0600
>
> John,
> Wow , what a station!!
>I wish that my time and budget would allow me a setup like that !!
>
>73 Don Ke7ffm
>http://groups.yahoo.com/group/DrakeRadio/

45. RE: [DrakeRadio] photo's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-17 23:25:50 UTC
From: Walter Milton
Topic: 43 Message: 45

John,

VERY nice station!!!

73's,
Walt KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don
Sent: Saturday, June 17, 2006 10:59 AM
To: DrakeRadio
Subject: [DrakeRadio] photo's

John,
Wow , what a station!!
I wish that my time and budget would allow me a setup like that !!

73 Don Ke7ffm
http://groups. <http://groups.yahoo.com/group/DrakeRadio/>
yahoo.com/group/DrakeRadio/

[Non-text portions of this message have been removed]

46. Re: [DrakeRadio] photo's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-18 02:16:31 UTC
From: Don
Topic: 43 Message: 46

I checkd youon qrz.com. I prettymuch grew up in southern Ohio in a small
town called Lucasville. my uncle Chester Kilgore lived in Portsmouth and is
the one who got me interested in Ham Radio. When he should me his shack and
all the homemade equipment, big glowing tubes the crackle of distant voices
coming over the speaker, I was hooked!
While from there I pursued electronics as a hobby, it was another ten
years after that before I became licensed.
very shortly after that me uncle became a silent key. I don't know his
call, but i do know he was very active until about 1979-80.
Your shack certainly reminds of that time when I first saw ham radio.
My own stock of gear is slowly growing, but I have grands with us right now,
and still have a couple of years left before the house is paid off. the
will be the big boost!!
Thanks to you all who have joined the list so far, if there's anything
can do to help things out here, please ask!

----- Original Message -----
From: "John Page" <k4kwm@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, June 17, 2006 11:23 AM
Subject: RE: [DrakeRadio] photo's

> Thanks Don. I was first licensed in 1953 and could only drool over the
> stuff
> that Collins and others made then. Now I have more time than sense so this
> is the result. I have a lot more that is not pictured. Heath Mohawk,
> Apache,
> HQ 170, HQ 180, SX71,S40, S20, SX28, Several more Kwm2A's. SB-104's. And
> the list goes on. Also have several Kenwood transcievers. And an FT-1000D.
>
> Hope it doesnt sound like bragging. I dont mean it that way. I just like
> getting something and restoring it. You woulnt have given a dollar for the
> 2
> 32V transmitters. But I did give 50 and it took almost 2 years to finish
> them. They look brand new and work great. Thats my hobby. John
>
> John Page K4KWM
> Hollow State since 1953
> (ex W8PKU,N8BLB,NA8O)
>
>
>
>
>>From: "Don" <drfrasher@...>
>>Reply-To: DrakeRadio@yahoogroups.com

>>To: "DrakeRadio" <DrakeRadio@yahoogroups.com>
>>Subject: [DrakeRadio] photo's
>>Date: Sat, 17 Jun 2006 08:58:44 -0600
>>
>> John,
>> Wow , what a station!!
>>I wish that my time and budget would allow me a setup like that !!
>>
>>73 Don Ke7ffm
>>http://groups.yahoo.com/group/DrakeRadio/
>
>
>

47. RE: [DrakeRadio] photo's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-18 19:51:24 UTC
From: John Page
Topic: 43 Message: 47

Thank you. Now that I am retired, I have more time than sense. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

>From: "Walter Milton" <wmilton@...>
>Reply-To: DrakeRadio@yahoogroups.com
>To: <DrakeRadio@yahoogroups.com>
>Subject: RE: [DrakeRadio] photo's
>Date: Sat, 17 Jun 2006 19:25:50 -0400
>
>John,
>
>VERY nice station!!!
>
>73's,
>Walt KA2NJF
>
>
> _____
>
>From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
>Behalf Of Don
>Sent: Saturday, June 17, 2006 10:59 AM
>To: DrakeRadio
>Subject: [DrakeRadio] photo's
>
>
>
>John,
>Wow , what a station!!
>I wish that my time and budget would allow me a setup like that !!
>
>73 Don Ke7ffm
>http://groups. <http://groups.yahoo.com/group/DrakeRadio/>
>yahoo.com/group/DrakeRadio/
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>
>[Non-text portions of this message have been removed]
>

48. L4-B Question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-21 17:45:23 UTC
From: Mike-K5VSE
Topic: 48 Message: 48

Anybody got a spare Grid and Plate Voltage meter for an L4-B? I put my meter across the meter, and it shows an open coil. If not who does meter repairs? Any and all help appreciated.

Thanks
Mike/K5VSE

49. RE: [DrakeRadio] L4-B Question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-22 00:07:26 UTC
From: Walter Milton
Topic: 48 Message: 49

Mike,

there is a Drake traders net on 75 M on Wed & Sat evenings at 2000 local time. There was a ham who was selling a parts list form a L-4B. I do not have his call nor do I know if he still has parts. The frequency is 3.938 LSB. coming out of Virginia. I do not know if you can hear this net or not.

Walt KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Mike-K5VSE
Sent: Wednesday, June 21, 2006 1:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] L4-B Question?

Anybody got a spare Grid and Plate Voltage meter for an L4-B? I put my meter across the meter, and it shows an open coil. If not who does meter repairs? Any and all help appreciated.

Thanks
Mike/K5VSE

[Non-text portions of this message have been removed]

50. L4-B meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-22 22:10:15 UTC
From: Mike-K5VSE
Topic: 50 Message: 50

Sorry folks,

I made a mistake! I need the plate ma meter, not the grid/watts meter.
Drake part # is 3580030 from the manual.

Guess age is finally getting to me.

Thanks to all
Mike/K5VSE

Mena, AR

51. Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-27 23:34:24 UTC
From: Mike-K5VSE
Topic: 51 Message: 51

I finally got it re-built and on the air. Got to tune it with grid current and my W4 watt meter. No plate meter at all. So all you guys keep looking, and one day I will find one.

Thanks to all who have already made suggestions.

Mike/K5VSE

You can also contact me at my email address direct: k5vse@earthlink.net since I don't always check this group on a regular basis.

52. Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 00:12:11 UTC
From: Don
Topic: 51 Message: 52

Thanks for the update. I'll keep an eye out for one.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "Mike-K5VSE" <k5vse@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 27, 2006 5:34 PM
Subject: [DrakeRadio] Definetly the plate meter is out on the L4-B

I finally got it re-built and on the air. Got to tune it with grid
current and my W4 watt meter. No plate meter at all. So all you guys
keep looking, and one day I will find one.

Thanks to all who have already made suggestions.

Mike/K5VSE

You can also contact me at my email address direct: k5vse@...
since I don't always check this group on a regular basis.

53. Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 01:13:59 UTC
From: K5VSE
Topic: 51 Message: 53

Thanks Don,

There is bound to be someone parting out one of these amps someplace at some time.

I know it took me a year to find a meter for an old Gonset GSB-100!

73 de Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
Drake Twins: "C" line, L4-B, and Henry 2KD-5
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

54. Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 04:01:38 UTC
From: Don
Topic: 51 Message: 54

I do understand. No one wants to let go of such hard to find parts , at least , not collectors. And unfortunately, sometimes about the only source for many of these parts are from the E-bay butchers. I am really not against e-bay, just those who will destroy a good radio to sell the parts.
Feel free to post an occansional reminder that your looking for the plate meter, and if not me, maybe someone on the list can come up with a spare.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "K5VSE" <k5vse@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 27, 2006 7:13 PM
Subject: Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

> Thanks Don,
>
> There is bound to be someone parting out one of these amps someplace at
> some
> time.
>
> I know it took me a year to find a meter for an old Gonset GSB-100!
>
> 73 de Mike/K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
> Drake Twins: "C" line, L4-B, and Henry 2KD-5
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2006
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>
>

55. Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 05:54:27 UTC
From: K5VSE
Topic: 51 Message: 55

Well Don,
I just finished it off today, and brought it up from the shop, and it's on the air now. I just watch the grid current, and tune with the watt meter. The only thing I really like to keep an eye on is the idling current, that at present have no idea what it is. I'll check back from time to time and see what comes up. Some one was trying to sell the CW/SSB switch for $100.00 last week on the "E" place! Now it's re-listed and at last check was $26.?? and hasn't met his reserve. Go figure!

73 Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
Drake Twins: "C" line, L4-B, and Henry 2KD-5
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

56. Re: [DrakeRadio] Definetly the plate meter is out on the L4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 13:20:32 UTC
From: Garey Barrell
Topic: 51 Message: 56

Mike -

I don't have a replacement meter, sorry. Just a thought. I don't know if it is a conventional spring-wound movement or a taut-band, but I have seen the spring-wound movements develop corrosion in the zero adjust mechanism and go "open" since the coil connection is through that assembly. "Exercising" the zero adjust will sometimes clear the corrosion. Otherwise, meter coils rarely open "inside", favoring solder connections at the winding ends.

Good luck!

73, Garey - K4OAH
Atlanta

Drake B & C-Line Service Data
<http://www.k4oah.com>

K5VSE wrote:
> Well Don,
> I just finished it off today, and brought it up from the shop, and it's on
> the air now. I just watch the grid current, and tune with the watt meter.
> The only thing I really like to keep an eye on is the idling current, that
> at present have no idea what it is. I'll check back from time to time and
> see what comes up. Some one was trying to sell the CW/SSB switch for $100.00
> last week on the "E" place! Now it's re-listed and at last check was $26.??
> and hasn't met his reserve. Go figure!
>
> 73 Mike/K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake: Radios, TR-4, TR-4C, ,RV-4C,
> Drake Twins: "C" line, L4-B, and Henry 2KD-5
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2006
> "In God We Trust"
>
>

59. Drake 2-B Service CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-06-28 20:02:10 UTC
From: Garey Barrell
Topic: 59 Message: 59

Drake 2-B Service Information

This is NOT just a scan of the Drake original manual!! (Although a CLEAR, Hi Res scan IS included!!)

Also included is information not available anywhere else.

1. Complete part list showing all resistors, capacitors and semiconductors keyed to full color, high resolution photos, showing their location on the PC board or chassis. A total of 5 pages in PDF.

2. Full color, high resolution photos of the chassis and each PC board with each part identified. Sized to print on 8.5? x 11? pages, or may be enlarged on screen for a closer look. A total of 18 photos in PDF.

3. Never before published schematic and other information about the Passband Tuner.

4. Data based on Version 531626290 or [05/31/62 s/n 6290 +]. Photos are of a 10000 series unit which agrees completely with the 6290 schematic. Full size (11" x 17") scans of schematics for the 2-A and earlier 2-B versions included.

6. High resolution scans of original manual for the 2-B with CLEAR chassis photos. A total of 38 pages in PDF.

7. Miscellaneous additional files, errata sheets, modifications and alignment pages. A total of 32 pages in PDF.

All documents in PDF and readable on most platforms, (including MAC and LINUX,) with appropriate FREE reader available from Adobe Systems.

Sample pages and full ordering information may be seen at <www.k4oah.com>

The CD is available for $18 postpaid to US and Canadian addresses only. Additional postage charges for non-US/Canada delivery. Inquire.

Email to <Drake4@...> for more information.

Yes, the B & C Line versions are still available as well.

--

73, Garey - K4OAH
Atlanta

Drake B & C-Line Service CDs
<http://www.k4oah.com>

60. Fwd: [drakelist] TR7 and R7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-04 17:42:33 UTC
From: Don
Topic: 60 Message: 60

I am forwarding this from another list in case anyone here was interested.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/ <<< newest yahoo group moderated for spam>>>>

----- Original Message -----
From: "Bill Hosie" <bill@...>
To: "Drake List" <drakelist@...>
Sent: Tuesday, July 04, 2006 5:26 AM
Subject: [drakelist] TR7 and R7

I have two immaculate TR7s with matching PS7s.
I would like an R7 to work with one of the TR7s.
There maybe someone out there who would consider my TR7 for their R7,plus cash adjustment?
The downside of course,I am in South Africa!
73
Bill Hosie
ZS6CCY
Sibaya Ranch
The Waterberg
South Africa

61. Drake TR-22 charge cord FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-08 22:12:39 UTC
From: Ken Simpson, W8EK
Topic: 61 Message: 61

For Sale:

Charge cord for Drake TR-22
I found a plastic bag with a 110 V AC power cord in it, along with a note saying "TR-22 charge cord". It is a 2 conductor cord, with a standard plug on one end. The other end looks somewhat close to a TV "Cheater" cord. It is in very close to new condition. $10

Other Drake items for sale:

Drake TV-5240-LP low pass filter
This number is correct; it is not a TV-5200. This filter is different than the typical low pass filter. It has an SO-239 connector on each end, but instead of being long and skinny, the enclosure is about 5 inches square. I think this is a fairly old filter. It has brownish/gray paint over the copper colored case. I have not been able to find any specs on this filter. It does say "For use in 52 ohm line of transmitters operating below 30 Mc." printed on it. If anyone has any additional information on it, I would appreciate hearing. $30

Drake TV-300-HP high pass filter
High Pass filter for the TV for 300 ohm twin lead.
This filter is collectable, and is unused as best I can determine. It is still in its original box (not the newer blister pack), with an "RLD" logo on it, and says "NEW TV-300 HP High Pass Filter, Attenuates 0-52 MHz". A grounding strap is also attached. $ 15

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

62. FS: SPR-4 $275

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-13 02:02:50 UTC
From: mikemaghakian
Topic: 62 Message: 62

I have a stock SPR-4 in overall good condition for $275 has FS-4
sticker on the preselector so you can see what each position
corresponds to what MHz. pretty neat.
does not include the AC cord but I can attach an AC adapter to the DC
input that can easily be removed without any damage.

63. Hello

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-13 22:24:42 UTC
From: donfrasher
Topic: 63 Message: 63

We have had a few new members lately and the list is now up to a total of 49 members.
And while I am moderating for spam, I dont have a problem with list being open to talk on any area of Drakes. Just using our Drakes, contacts we've made, do we use it for FD or other contest, or has anyone here tried using psk31 or any other digital?? Back in the late 80's I was running rtty on a TR7, but i certainly haven't tried any of the new modes.

Anyway, Welcome to all of the latest members, I hope you enjoy our group!!

73 Don Ke7ffm

65. Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-18 11:26:41 UTC
From: Daniel
Topic: 65 Message: 65

Drake R-4C (S/N: 28616) 250/500/1800 Hz, with lots of Sherwood Modifcations (CF-600/6 600 Hz 6-Pole First-IF filter, FPS-4 front panel switch, RPS-4 power supply, AMP-4 audio amp, MIX-4 3rd mixer, PD-4 product detector, Four filter switch, CF-2K/8 pair)with orange LCD Display with Board Decoder (black background), Drake T-4XC (S/N: 29552). MS-4, AC-4. All is in very good shape. Pictures on request. ** $ 1000.- ** (+ shipping).

Daniel

66. Re: [DrakeRadio] Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-18 12:03:10 UTC
From: Don
Topic: 65 Message: 66

I can forward this to other list if you would like. I hope that you are doing ok.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 18, 2006 5:26 AM
Subject: [DrakeRadio] Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Drake R-4C (S/N: 28616) 250/500/1800 Hz, with lots of Sherwood Modifcations (CF-600/6
600 Hz 6-Pole First-IF filter, FPS-4 front panel switch, RPS-4 power supply, AMP-4 audio
amp, MIX-4 3rd mixer, PD-4 product detector, Four filter switch, CF-2K/8 pair)with orange
LCD Display with Board Decoder (black background), Drake T-4XC (S/N: 29552). MS-4, AC-4.
All is in very good shape. Pictures on request. ** $ 1000.- ** (+ shipping).

Daniel

67. Re: Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-18 16:06:56 UTC
From: Daniel
Topic: 65 Message: 67

Hi Don

Yes no problem. Which list/group?

Daniel

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> I can forward this to other list if you would like. I hope that you are
> doing ok.
>
> 73 Don Ke7ffm
> http://groups.yahoo.com/group/DrakeRadio/
>
> ----- Original Message -----
> From: "Daniel" <schaeffler@...>
> To: <DrakeRadio@...m>
> Sent: Tuesday, July 18, 2006 5:26 AM
> Subject: [DrakeRadio] Selling Drake C-Line: R-4C with Sherwood Modifications
> + T-4XC
>
>
> Drake R-4C (S/N: 28616) 250/500/1800 Hz, with lots of Sherwood Modifcations
> (CF-600/6
> 600 Hz 6-Pole First-IF filter, FPS-4 front panel switch, RPS-4 power supply,
> AMP-4 audio
> amp, MIX-4 3rd mixer, PD-4 product detector, Four filter switch, CF-2K/8
> pair)with orange
> LCD Display with Board Decoder (black background), Drake T-4XC (S/N: 29552).
> MS-4, AC-4.
> All is in very good shape. Pictures on request. ** $ 1000.- ** (+ shipping).
>
> Daniel
>

68. Re: [DrakeRadio] Re: Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-18 22:16:33 UTC
From: Don
Topic: 65 Message: 68

The DrakeList.
It is not a yahoo group, its a majordomo e-mail list only, but its been around for awhile and has a pretty good sized membership. so I stay on both.
http://www.zerobeat.net/drakelist/
is the link for their home page.
your welcome to join them as well/instead or I could re-post you sell on there for you. whichever you would prefer.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 18, 2006 10:06 AM
Subject: [DrakeRadio] Re: Selling Drake C-Line: R-4C with Sherwood Modifications + T-4XC

Hi Don

Yes no problem. Which list/group?

Daniel

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> I can forward this to other list if you would like. I hope that you
> are
> doing ok.
>
> 73 Don Ke7ffm
> http://groups.yahoo.com/group/DrakeRadio/
>
> ----- Original Message -----
> From: "Daniel" <schaeffler@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 18, 2006 5:26 AM
> Subject: [DrakeRadio] Selling Drake C-Line: R-4C with Sherwood
> Modifications
> + T-4XC
>
>
> Drake R-4C (S/N: 28616) 250/500/1800 Hz, with lots of Sherwood

> Modifcations
> (CF-600/6
> 600 Hz 6-Pole First-IF filter, FPS-4 front panel switch, RPS-4 power
> supply,
> AMP-4 audio
> amp, MIX-4 3rd mixer, PD-4 product detector, Four filter switch, CF-2K/8
> pair)with orange
> LCD Display with Board Decoder (black background), Drake T-4XC (S/N:
> 29552).
> MS-4, AC-4.
> All is in very good shape. Pictures on request. ** $ 1000.- ** (+
> shipping).
>
> Daniel
>

69. Drake 2-B Service CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-21 21:35:39 UTC
From: Garey Barrell
Topic: 59 Message: 69

Drake 2-B Service Information

This is NOT just a scan of the Drake original manual!! (Although a CLEAR, Hi Res scan IS included!!)

Also included is information not available anywhere else.

1. Complete part list showing all resistors, capacitors and semiconductors keyed to full color, high resolution photos, showing their location on the PC board or chassis. A total of 5 pages in PDF.

2. Full color, high resolution photos of the chassis and each PC board with each part identified. Sized to print on 8.5? x 11? pages, or may be enlarged on screen for a closer look. A total of 18 photos in PDF.

3. Never before published schematic and other information about the Passband Tuner.

4. Data based on Version 531626290 or [05/31/62 s/n 6290 +]. Photos are of a 10000 series unit which agrees completely with the 6290 schematic. Full size (11" x 17") scans of schematics for the 2-A and earlier 2-B versions included.

6. High resolution scans of original manual for the 2-B with CLEAR chassis photos. A total of 38 pages in PDF.

7. Miscellaneous additional files, errata sheets, modifications and alignment pages. A total of 32 pages in PDF.

All documents in PDF and readable on most platforms, (including MAC and LINUX,) with appropriate FREE reader available from Adobe Systems.

Sample pages and full ordering information may be seen at <www.k4oah.com>

The CD is available for $18 postpaid to US and Canadian addresses only. Additional postage charges for non-US/Canada delivery. Inquire. Cash, Check, MO or PayPal OK.. PayPal to k4oah@....

Email to <Drake4@...> for more information.

Yes, the B & C Line versions are still available as well.

--

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<http://www.k4oah.com>

70. 4 Line PTO Skirt

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-01 01:27:08 UTC
From: waynew60
Topic: 70 Message: 70

Does anyone here know of a source for a 4 line PTO skirt (in the old days, we would have called it a dial plate!)?
I have tried the Drake parts suppliers I could find web searching with no results.

Thanks!

71. Re: [DrakeRadio] 4 Line PTO Skirt

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-01 07:02:20 UTC
From: Don
Topic: 70 Message: 71

Thats going to be a tough one !! maybe somebody on the list has an extra replacement or knows of a source.
I would also try contacting:

http://www.wa9tgt.com/index.html

It wouldn't hurt to ask them, I am sure that your not the first person to need one, and they seem to be willing to go the extra mile to keep these radios looking and working great.

As a last resort, keep an eye on e-bay.

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/
No trees were killed in the sending of this message, but a large number of electrons were greatly inconvenienced

----- Original Message -----
From: waynew60
To: DrakeRadio@yahoogroups.com
Sent: Monday, July 31, 2006 7:27 PM
Subject: [DrakeRadio] 4 Line PTO Skirt

Does anyone here know of a source for a 4 line PTO skirt (in the old
days, we would have called it a dial plate!)?
I have tried the Drake parts suppliers I could find web searching with
no results.

Thanks!

[Non-text portions of this message have been removed]

72. Re: [DrakeRadio] 4 Line PTO Skirt

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-01 14:31:39 UTC
From: K5VSE
Topic: 70 Message: 72

There is a complete knob on ebay ending today. Here is the URL

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=008&item=180010466802&rd=1&sspagename=STRK%3AMEWA%3AIT&rd=1

Hope this is what you are looking for. I did get one for my TR-4 from ebay
as well.

Mike/K5VSE
Mena, AR

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter
L4-B, and Henry 2KD-5 amplifiers
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

73. Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-06 13:37:04 UTC
From: Alan Parker
Topic: 73 Message: 73

Greetings all,

I have the following for sale:

Drake T4XC, serial #21503
Drake R4C, serial# 18210 w/500 cw filter
Power supply and cord
Speaker and cabinet
Manuals on CD Rom

Sale to continental U.S. only, located in Texas and will consider
meeting half way for a reasonalble distance.

Price: 400.00

Would rate a 5-6 on scale to 10. My dad bought the set from a SK
here and gave to me. Just don't have time to do anything with it.

Thanks for reading,

Alan
KD5PVM

74. SPR-4 100kHz calibrator $50

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-07 01:33:42 UTC
From: mike maghakian
Topic: 74 Message: 74

EMAIL ME IF YOU ARE INTERESTED

_____
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75. Re: Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 01:51:40 UTC
From: waynew60
Topic: 73 Message: 75

Alan - have you checked ebay? From casual looking at Drake stuff, I think you can get a lot more $ than that for a C line on ebay, IF you sell each piece separately. The receiver alone could go for close to that much.
Good Luck!

--- In DrakeRadio@yahoogroups.com, "Alan Parker" <cherrymaxap@...> wrote:
>
> Greetings all,
>
> I have the following for sale:
>
> Drake T4XC, serial #21503
> Drake R4C, serial# 18210 w/500 cw filter
> Power supply and cord
> Speaker and cabinet
> Manuals on CD Rom
>
> Sale to continental U.S. only, located in Texas and will consider
> meeting half way for a reasonalble distance.
>
> Price: 400.00
>
> Would rate a 5-6 on scale to 10. My dad bought the set from a SK
> here and gave to me. Just don't have time to do anything with it.
>
> Thanks for reading,
>
> Alan
> KD5PVM
>

76. Re: [DrakeRadio] Re: Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 02:07:16 UTC
From: Alan Parker
Topic: 73 Message: 76

Thanks Wayne,
Well I've looked at ebay too and really didn't want to
mess with all that. But, if nothing moves soon I can
talk with a guy at work and see if he can list it. Do
you suggest selling each piece seperate? I would've
thought the whole set might bring better results.
But, yall are the experts, so I'm open to any
suggestions.

Alan

--- waynew60 <waynew60@...> wrote:

> Alan - have you checked ebay? From casual looking
> at Drake stuff, I
> think you can get a lot more $ than that for a C
> line on ebay, IF you
> sell each piece separately. The receiver alone
> could go for close to
> that much.
> Good Luck!
>
> --- In DrakeRadio@yahoogroups.com, "Alan Parker"
> <cherrymaxap@...> wrote:
> >
> > Greetings all,
> >
> > I have the following for sale:
> >
> > Drake T4XC, serial #21503
> > Drake R4C, serial# 18210 w/500 cw filter
> > Power supply and cord
> > Speaker and cabinet
> > Manuals on CD Rom
> >
> > Sale to continental U.S. only, located in Texas
> and will consider
> > meeting half way for a reasonalble distance.
> >
> > Price: 400.00
> >
> > Would rate a 5-6 on scale to 10. My dad bought the
> set from a SK
> > here and gave to me. Just don't have time to do
> anything with it.
> >

> > Thanks for reading,
> >
> > Alan
> > KD5PVM
> >
>
>
>
>
>

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77. Re: [DrakeRadio] Re: Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 04:26:43 UTC
From: Bill
Topic: 73 Message: 77

I wish I had the $ 400.00 .Have they been on the air lately. I just Love they way those Tubes Glow. I'm with Wayne. If they are clean and in good operating condition you could probabily do better on the price. I have a Drake TR-4 that
my Grandpa used to use. I still plug her in once in awhile. With the way the storms pop up I leave most everything unhooked and unplugged. Oh yea, I use the Kenwood TS-2000 mostly...You just gotta Love those Drakes. I always wanted a set of Drake Twins. Sorry to say I am so broke I don't have a pot to piss in. Seems the good deals always come around when you are penny less....LOL....Good Luck Alan. I am sure you will make someone very happy. There are alot of collectors out there. I'd be one but that takes money....Hey if you got any good pictures of the twins, radios on or off and you got the time send em my way, thanks...Bill In Ohio...73's...DE...KC8ILP...

I'm thinking of changing my name to " A day late, an a dollar short "...LOL

http://kc8ilpsweb.hopto.org/ Part-time web server. Most updated.
http://kc8ilp.tripod.com/ Back-up Full-time server
http://www.kc8ilp.bravehost.com/ Back-up Full-time server

http://www.billslisteningpost.bravehost.com/ Bills Listening Post...

Alan Parker <cherrymaxap@...> wrote:
Thanks Wayne,
Well I've looked at ebay too and really didn't want to
mess with all that. But, if nothing moves soon I can
talk with a guy at work and see if he can list it. Do
you suggest selling each piece seperate? I would've
thought the whole set might bring better results.
But, yall are the experts, so I'm open to any
suggestions.

Alan

--- waynew60 <waynew60@...> wrote:

> Alan - have you checked ebay? From casual looking
> at Drake stuff, I
> think you can get a lot more $ than that for a C
> line on ebay, IF you
> sell each piece separately. The receiver alone
> could go for close to
> that much.
> Good Luck!
>
> --- In DrakeRadio@yahoogroups.com, "Alan Parker"
> <cherrymaxap@...> wrote:
> >
> > Greetings all,

> >
> > I have the following for sale:
> >
> > Drake T4XC, serial #21503
> > Drake R4C, serial# 18210 w/500 cw filter
> > Power supply and cord
> > Speaker and cabinet
> > Manuals on CD Rom
> >
> > Sale to continental U.S. only, located in Texas
> and will consider
> > meeting half way for a reasonalble distance.
> >
> > Price: 400.00
> >
> > Would rate a 5-6 on scale to 10. My dad bought the
> set from a SK
> > here and gave to me. Just don't have time to do
> anything with it.
> >
> > Thanks for reading,
> >
> > Alan
> > KD5PVM
> >
>
>
>
>
>

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[Non-text portions of this message have been removed]

78. L4PS Power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 14:07:58 UTC
From: Bill Grimwood
Topic: 78 Message: 78

I have just purchased an L-4B amp that does not have a power supply. I need a good one that works.

Please contact me at W4WEG@...

Thanks

Bill Grimwood

[Non-text portions of this message have been removed]

79. Re: [DrakeRadio] Re: Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 14:13:33 UTC
From: Don
Topic: 73 Message: 79

Selling seperate on E-bay almost always brings much better prices than when sold as a set. just wish I had the extra $$!!

Don

----- Original Message -----
From: Alan Parker
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 07, 2006 8:07 PM
Subject: Re: [DrakeRadio] Re: Drake set for sale

Thanks Wayne,
Well I've looked at ebay too and really didn't want to mess with all that. But, if nothing moves soon I can talk with a guy at work and see if he can list it. Do you suggest selling each piece seperate? I would've thought the whole set might bring better results. But, yall are the experts, so I'm open to any suggestions.

Alan

--- waynew60 <waynew60@...> wrote:

> Alan - have you checked ebay? From casual looking
> at Drake stuff, I
> think you can get a lot more $ than that for a C
> line on ebay, IF you
> sell each piece separately. The receiver alone
> could go for close to
> that much.
> Good Luck!
>
> --- In DrakeRadio@yahoogroups.com, "Alan Parker"
> <cherrymaxap@...> wrote:
> >
> > Greetings all,
> >
> > I have the following for sale:
> >
> > Drake T4XC, serial #21503
> > Drake R4C, serial# 18210 w/500 cw filter
> > Power supply and cord
> > Speaker and cabinet
> > Manuals on CD Rom
> >

> > Sale to continental U.S. only, located in Texas
> and will consider
> > meeting half way for a reasonalble distance.
> >
> > Price: 400.00
> >
> > Would rate a 5-6 on scale to 10. My dad bought the
> set from a SK
> > here and gave to me. Just don't have time to do
> anything with it.
> >
> > Thanks for reading,
> >
> > Alan
> > KD5PVM
> >
>
>
>
>
>

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http://mail.yahoo.com

[Non-text portions of this message have been removed]

80. Re: [DrakeRadio] Re: Drake set for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-08 21:58:14 UTC
From: Alan Parker
Topic: 73 Message: 80

Thanks for the help. I thinks I'll keep here for just
a bit longer while I check into the ebay thing. But
again, thanks for the advice.

Alan

--- Don <drfrasher@...> wrote:

> Selling seperate on E-bay almost always brings
> much better prices than when sold as a set.
> just wish I had the extra $$!!
>
> Don
>
> ----- Original Message -----
> From: Alan Parker
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, August 07, 2006 8:07 PM
> Subject: Re: [DrakeRadio] Re: Drake set for sale
>
>
> Thanks Wayne,
> Well I've looked at ebay too and really didn't
> want to
> mess with all that. But, if nothing moves soon I
> can
> talk with a guy at work and see if he can list it.
> Do
> you suggest selling each piece seperate? I
> would've
> thought the whole set might bring better results.
> But, yall are the experts, so I'm open to any
> suggestions.
>
> Alan
>
> --- waynew60 <waynew60@...> wrote:
>
> > Alan - have you checked ebay? From casual
> looking
> > at Drake stuff, I
> > think you can get a lot more $ than that for a C
> > line on ebay, IF you
> > sell each piece separately. The receiver alone
> > could go for close to
> > that much.

> > Good Luck!
> >
> > --- In DrakeRadio@yahoogroups.com, "Alan Parker"
> > <cherrymaxap@...> wrote:
> > >
> > > Greetings all,
> > >
> > > I have the following for sale:
> > >
> > > Drake T4XC, serial #21503
> > > Drake R4C, serial# 18210 w/500 cw filter
> > > Power supply and cord
> > > Speaker and cabinet
> > > Manuals on CD Rom
> > >
> > > Sale to continental U.S. only, located in
> Texas
> > and will consider
> > > meeting half way for a reasonalble distance.
> > >
> > > Price: 400.00
> > >
> > > Would rate a 5-6 on scale to 10. My dad bought
> the
> > set from a SK
> > > here and gave to me. Just don't have time to
> do
> > anything with it.
> > >
> > > Thanks for reading,
> > >
> > > Alan
> > > KD5PVM
> > >
> >
> >
> >
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> >
> >
> > ---
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> > protection around
> > http://mail.yahoo.com
> >
> >
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> >
> > [Non-text portions of this message have been

> removed]
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

81. OT: manual or schematic for Heath OL-1 ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-12 22:19:24 UTC
From: Don
Topic: 81 Message: 81

looking to restore an old heathkit scope model OL-1.
I did not find this one on Bama or anywhere else.
manual would be great, but even just a scanned copy of the schematic would help.

Thanks, and sorry for the off topic post

Don
KE7FFM

[Non-text portions of this message have been removed]

82. Upgrade TR-4C to TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-14 17:43:36 UTC
From: mbadz
Topic: 82 Message: 82

I understand that at one time Drake provided a service for converting
a TR-4C to a TR-4CW. I guess since they are out of the Amateur Radio
business that this service is no longer available. Does anyone know
of a web site that has information on how to convert a TR-4C to a TR-4CW?

Thanks,
Mike - W1OL

83. Re: [DrakeRadio] Upgrade TR-4C to TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-15 01:47:33 UTC
From: Larry Taft
Topic: 82 Message: 83

Mike,

I haven't seen any formal conversion notes on the CW filter. I looked into it a while ago and decided the easiest way would be to use the mini relays a la Bob Sherwood to switch the CW filter in place of the X position filter. The problems are to avoid filter "blowby" and provide a neat way to control the relays.

Duplicating the original Drake CW install looks like a lot of work and has the challenge of finding the rotary switch.

All suggestions are welcome.

73, Larry K2LT
drakerepair.com 800-687-9161

mbadz wrote:
> I understand that at one time Drake provided a service for converting
> a TR-4C to a TR-4CW. I guess since they are out of the Amateur Radio
> business that this service is no longer available. Does anyone know
> of a web site that has information on how to convert a TR-4C to a TR-4CW?
>
> Thanks,
> Mike - W1OL
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> Yahoo! Groups Links
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84. Re: [DrakeRadio] Upgrade TR-4C to TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-15 00:06:38 UTC
From: Don
Topic: 82 Message: 84

try this:

http://www.dproducts.be/DRAKE_MUSEUM/tr-4cw.htm

Post back to let us know if this is what you needed or not.

Don
Ke7ffm

----- Original Message -----
From: mbadz
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 14, 2006 11:43 AM
Subject: [DrakeRadio] Upgrade TR-4C to TR-4CW

I understand that at one time Drake provided a service for converting
a TR-4C to a TR-4CW. I guess since they are out of the Amateur Radio
business that this service is no longer available. Does anyone know
of a web site that has information on how to convert a TR-4C to a TR-4CW?

Thanks,
Mike - W1OL

[Non-text portions of this message have been removed]

85. DOA R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-16 20:16:59 UTC
From: dlgillen
Topic: 85 Message: 85

Hi Everyone,
I'm new to the group been a ham 6 months, working on my general.
Someone gave me a set of R-4B "Twins" the transmitter seems to work
but I could not get the r-4B to power up. I jumped the on off switch
and she glows and nice bluish green....Is there somewhere I can get a
replacement off/standby/on switch?

Thanks,
Dan
K9SLY

86. RE: [DrakeRadio] DOA R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-16 20:31:20 UTC
From: K4GM George
Topic: 85 Message: 86

You need to run ALL the cables from the xmtr to rcvr or short the standby jack.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of dlgillen
Sent: Wednesday, August 16, 2006 4:17 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] DOA R-4B

Hi Everyone,
I'm new to the group been a ham 6 months, working on my general.
Someone gave me a set of R-4B "Twins" the transmitter seems to work but I could not get the r-4B to power up. I jumped the on off switch and she glows and nice bluish green....Is there somewhere I can get a replacement off/standby/on switch?

Thanks,
Dan
K9SLY

[Non-text portions of this message have been removed]

87. Re: [DrakeRadio] DOA R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-16 20:33:50 UTC
From: Garey Barrell
Topic: 85 Message: 87

Dan -

"The Man" has them.

http://tinyurl.com/pnqj6

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

dlgillen wrote:
> Hi Everyone,
> I'm new to the group been a ham 6 months, working on my general.
> Someone gave me a set of R-4B "Twins" the transmitter seems to work
> but I could not get the r-4B to power up. I jumped the on off switch
> and she glows and nice bluish green....Is there somewhere I can get a
> replacement off/standby/on switch?
>
> Thanks,
> Dan
> K9SLY
>

88. TR-3 TR-4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-16 21:51:49 UTC
From: John Silberman
Topic: 88 Message: 88

Hello everybody,

I'm John and I just now joined your group. I have a few Drakes, some even work! ;) I love my R4b. It works great.

My question to the group is, besides sidetone and semi brake-in CW in the TR-4, what are the other differences, if any, between the TR-3 and TR-4, not the C or CW versions. Which would be preferable to own (and operate), and is there anyone in Florida that can take a working one and make sure it's up to snuff? I'm not looking to make it a museum piece, just take a working radio and bring it close to specs to make it an every day radio. Thanks in advance.

John
KB4CRT N.FLA

89. Re: TR-3 TR-4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 00:02:16 UTC
From: w1kilofoxtrot
Topic: 88 Message: 89

I find the TR-3 challenges relate only to it's age, and the availability of replacement parts. I've got a pair of them. One has been a peach, and the other a PIA to keep running. But, it's simple to do. I joke that all you need is a flat blade screwdriver and a Weller iron and you can get them purring.

Manuals are availble on line, and the support in this and other on line groups is second to none.

Have at em!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, John Silberman <blkcat28@...> wrote:
>
> Hello everybody,
>
> I'm John and I just now joined your group. I have a few Drakes, some
> even work! ;) I love my R4b. It works great.
>
> My question to the group is, besides sidetone and semi brake-in CW in
> the TR-4, what are the other differences, if any, between the TR-3 and
> TR-4, not the C or CW versions. Which would be preferable to own (and
> operate), and is there anyone in Florida that can take a working one
> and make sure it's up to snuff? I'm not looking to make it a museum
> piece, just take a working radio and bring it close to specs to make it
> an every day radio. Thanks in advance.
>
> John
> KB4CRT N.FLA
>

90. RE: [DrakeRadio] DOA R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 01:14:23 UTC
From: Dan
Topic: 85 Message: 90

Thanks for the info. I did run all the cables through the xmiter to the recever. I have a Hygain vertical hooked up rg 58 to the xmiter. It works ok I can recieve on the proper bands. I would just like to replace the switch so it works....

These radios are Great. My son and I sat for hours tuning the rig in 40 and 80 meter bands tonight.
I am so hooked......
K4GM George <k4gm@...> wrote:
You need to run ALL the cables from the xmtr to rcvr or short the standby
jack.

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of dlgillen
Sent: Wednesday, August 16, 2006 4:17 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] DOA R-4B

Hi Everyone,
I'm new to the group been a ham 6 months, working on my general.
Someone gave me a set of R-4B "Twins" the transmitter seems to work
but I could not get the r-4B to power up. I jumped the on off switch
and she glows and nice bluish green....Is there somewhere I can get a
replacement off/standby/on switch?

Thanks,
Dan
K9SLY

[Non-text portions of this message have been removed]

73
Dan
K9SLY
Dan Gillenwater

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

91. Re: [DrakeRadio] DOA R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 01:15:55 UTC
From: Dan
Topic: 85 Message: 91

Thanks, I think thats what I need... these rigs are GREAT

Garey Barrell <k4oah@...> wrote: Dan -

"The Man" has them.

http://tinyurl.com/pnqj6

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

dlgillen wrote:
> Hi Everyone,
> I'm new to the group been a ham 6 months, working on my general.
> Someone gave me a set of R-4B "Twins" the transmitter seems to work
> but I could not get the r-4B to power up. I jumped the on off switch
> and she glows and nice bluish green....Is there somewhere I can get a
> replacement off/standby/on switch?
>
> Thanks,
> Dan
> K9SLY
>

73
Dan
K9SLY
Dan Gillenwater

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

92. Re: [DrakeRadio] TR-3 TR-4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 03:36:57 UTC
From: Larry Taft
Topic: 88 Message: 92

Hi John,

The TR-3 is the first and only all tube transceiver that Drake made. The first with the linear tuning PTO. The crystal filters are only 2 pole so the skirts aren't as steep as the later TR-4s. The finals are 12JB6s while the later rigs are 6JB6s. Both types are still available. TR-3 doesn't have the remote receiver slide switch on the left side to cause deafness at the wrong time.

Since I own a TR-3, TR-4 and TR-4CWrit I have the pleasure of playing with each. If I had to choose one to keep it would be the TR-3 as it works just fine for chatting on SSB and represents the end of the all tube era and the beginning of the dedicated SSB transceiver rigs. A wonderful piece of Drake engineering history.

While I am a bit further away than FL I do repair the Drake equipment and just finished up a nice TR-3.

73, Larry K2LT Rockport, TX
drakerepair.com 800-687-9161

John Silberman wrote:
> Hello everybody,
>
> I'm John and I just now joined your group. I have a few Drakes, some
> even work! ;) I love my R4b. It works great.
>
> My question to the group is, besides sidetone and semi brake-in CW in
> the TR-4, what are the other differences, if any, between the TR-3 and
> TR-4, not the C or CW versions. Which would be preferable to own (and
> operate), and is there anyone in Florida that can take a working one
> and make sure it's up to snuff? I'm not looking to make it a museum
> piece, just take a working radio and bring it close to specs to make it
> an every day radio. Thanks in advance.
>
> John
> KB4CRT N.FLA
>
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> Yahoo! Groups Links
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93. Re: Upgrade TR-4C to TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 04:07:19 UTC
From: mbadz
Topic: 82 Message: 93

This looks like the information I was looking for. Thanks.

Mike - W1OL

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> try this:
>
>
> http://www.dproducts.be/DRAKE_MUSEUM/tr-4cw.htm
>
>
> Post back to let us know if this is what you needed or not.
>
> Don
> Ke7ffm
>
>
> ----- Original Message -----
> From: mbadz
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, August 14, 2006 11:43 AM
> Subject: [DrakeRadio] Upgrade TR-4C to TR-4CW
>
>
> I understand that at one time Drake provided a service for converting
> a TR-4C to a TR-4CW. I guess since they are out of the Amateur Radio
> business that this service is no longer available. Does anyone know
> of a web site that has information on how to convert a TR-4C to a
TR-4CW?
>
> Thanks,
> Mike - W1OL
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

94. Cleaning the Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 21:54:53 UTC
From: dlgillen
Topic: 94 Message: 94

HI,
Are there any good sites on the web that talk about cleaning these radios?

I would like to give it a try for myself.

Or any suggestions from the list to get me started.
Thanks,
Dan
K9SLY

95. Re: [DrakeRadio] Cleaning the Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-17 23:18:55 UTC
From: Don
Topic: 94 Message: 95

For myself, I have for several years used windex class cleaner and a toothbrush for chasis, outside, knobs, ect. and alcohol for most switches, pcb's and such as that.

http://www.logwell.com/tech/servtips/cleaning.html

While I have yet to try it myself, on the Tektronix oscilloscope groups list, it has been stated several times that the best way was simple green and water and hose them down generously, left to dry out. they recommend this procedure for both tube and solidstate units, and I understood that Tek had some service manuals that included instructions for "wetwashing" scopes in the field. Below is part of a post from the Tek groups giving some detail of the steps used.

The first thing to consider is if it really needs to be washed, or if
you can clean it satisfactorily with cleaners and a water spray
bottle. You can carefully remove the tubes one section at a time. Be
careful cleaning the tubes, even a dry rag will sometimes remove
their markings.

Also, it is good to operate it before you wash it if possible. That
way, you can tell if you have added any new problems in the course of
the cleaning.

If you really want to give it a bath, here is how I do it:

I start by removing the plugin (do it seperately), side and bottom
covers, bezel, graticle and crt, the HV covers, the fuse, and the air
filter as well. I leave the knobs in place to prevent water from
getting in the bushings of the pots and switches. I also leave the
tubes in their sockets to help keep water out of the sockets. If you
have compressed air, or can take it to someone who has, now is the
time for a good dusting-out.

I cover the HV transformer and the open bottom of the LV transformer
with the famed sandwich bags. Remove any black cardboard covers over
filter capacitors, and cover any that won't come off with sandwich
bags.

I then take the scope and put it on a towel in the bathtub, being
careful not to scratch the tub (again). I liberally spray the
degreaser (I use Mean Green from Walmart) over the entire instrument.
It is well to consider how dirty the underside of the instrument is,
and if you need to clean it or not. Most of these instruments got
dirty from the top, and the less water inside, the better.

I let the degreaser soak for 15 minutes or so, adding a bit more on
the really dirty sections. Then I spray it out with the shower spray.
I try to get the water hot but not scalding. I use a moderate

pressure. Try not to leave the spray too long on any one spot. Avoid the two transformers covered with the bags as much as you can.

As soon as I am done I remove the sandwich bags, draining any water in them carefully so as not to get it inside the instrument. I let it sit for a few minutes, and then blow it out with compressed air. Be careful not to get to much pressure.

The next phase is important. The 535 chassis is too big for most ovens, unless you live in a hotel. You can leave it out in the Australian summer sun, I am told. LOL. You can put the back end in the oven and put a cardboard box over the front that sticks out. Or you can build a simple oven using big boxes, styrofoam, etc. Stan's book covers this aspect very well.

The important part is not to let the temperature exceed 85C, as the filter capacitors will suffer if gotten hotter than that. I use about 125F, checked with my temp meter. as most oven controls are very inaccurate at this low setting. If you don't have a way of checking, I let the chassis get hot but not uncomfortable to touch. About 24 hours seems to be good, but if you didn't have compressed air, you might need 2 or 3 days. A small fan in the oven helps.

After it is dry, it is important to lubricate the pots and switches, as their lubricant is now history. I use ordinary contact cleaner, but many on here have better knowledge than I do. REPLACE THE COVERS OVER THE FILTER CAPACITORS, as these can kill you if you contact them directly. Replace the crt as per the instructions in your manual.

Once you turn it on, you may find an obvious problem with frequency response as shown by a square wave. This means there may be some moisture left in the trimmer capacitors. Usuall a hair dryer will fix that.

----- Original Message -----
From: dlgillen
To: DrakeRadio@yahoogroups.com
Sent: Thursday, August 17, 2006 3:54 PM
Subject: [DrakeRadio] Cleaning the Drake?

HI,
Are there any good sites on the web that talk about cleaning these radios?

I would like to give it a try for myself.

Or any suggestions from the list to get me started.
Thanks,
Dan
K9SLY

[Non-text portions of this message have been removed]

96. Re: [DrakeRadio] TR-3 TR-4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-18 13:53:47 UTC
From: Garey Barrell
Topic: 88 Message: 96

Larry -

The weakness I have seen in my limited experience with the TR-3s and
early TR-4s has been failure of the "soupcan" filter. I suppose it
would be possible to repair by replacing a defective crystal with some
reverse engineering, but ... Inrad replacement filters are nice, but
too expensive to be practical unless the radio holds some sentimental value.

Aside from that, I suspect a transmitter with those filters wouldn't
come close to meeting the current FCC "Purity of Emissions" specs.
They're "grandfathered", but won't endear you to any nearby ham
friends. Plus of course the worst will end up driving amplifiers,
exacerbating the problem considerably!! :-)

I've attached a copy of the spreadsheet I put together to try and
visualize the TR-3/4 series for the CD I'm working on. I'd appreciate
any additions or corrections you might have. Thanks!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

Larry Taft wrote:
> Hi John,
>
> The TR-3 is the first and only all tube transceiver that Drake made. The
> first with the linear tuning PTO. The crystal filters are only 2 pole
> so the skirts aren't as steep as the later TR-4s. The finals are 12JB6s
> while the later rigs are 6JB6s. Both types are still available. TR-3
> doesn't have the remote receiver slide switch on the left side to cause
> deafness at the wrong time.
>
> Since I own a TR-3, TR-4 and TR-4CWrit I have the pleasure of playing
> with each. If I had to choose one to keep it would be the TR-3 as it
> works just fine for chatting on SSB and represents the end of the all
> tube era and the beginning of the dedicated SSB transceiver rigs. A
> wonderful piece of Drake engineering history.
>
> While I am a bit further away than FL I do repair the Drake equipment
> and just finished up a nice TR-3.
>
> 73, Larry K2LT Rockport, TX
> drakerepair.com 800-687-9161
>

> John Silberman wrote:
>
>> Hello everybody,
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>> I'm John and I just now joined your group. I have a few Drakes, some
>> even work! ;) I love my R4b. It works great.
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>> My question to the group is, besides sidetone and semi brake-in CW in
>> the TR-4, what are the other differences, if any, between the TR-3 and
>> TR-4, not the C or CW versions. Which would be preferable to own (and
>> operate), and is there anyone in Florida that can take a working one
>> and make sure it's up to snuff? I'm not looking to make it a museum
>> piece, just take a working radio and bring it close to specs to make it
>> an every day radio. Thanks in advance.
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>> John
>> KB4CRT N.FLA
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[Non-text portions of this message have been removed]

97. Wither ESRC tubes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-20 21:56:27 UTC
From: Garey Barrell
Topic: 97 Message: 97

This question came up a few weeks ago.

Due to some partnership problems, ESRC is now known as ESRC1 Corp and is alive and well under the same management.

Their new website is <WWW.ESRCVACUUMTUBES.COM>,

ESRC1 Corp
6424 Pinecastle Blvd
Suite D
Orlando, FL 32809

I have absolutely NO interest, pecuniary or otherwise, except as a satisfied customer for many years.

Garey - K4OAH
Atlanta

98. Re: [DrakeRadio] Wither ESRC tubes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-20 22:42:47 UTC
From: Don
Topic: 97 Message: 98

I added them to our Links page.

Don
Ke7ffm

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, August 20, 2006 3:56 PM
Subject: [DrakeRadio] Wither ESRC tubes?

This question came up a few weeks ago.

Due to some partnership problems, ESRC is now known as ESRC1 Corp and is alive and well under the same management.

Their new website is <WWW.ESRCVACUUMTUBES.COM>,

ESRC1 Corp
6424 Pinecastle Blvd
Suite D
Orlando, FL 32809

I have absolutely NO interest, pecuniary or otherwise, except as a satisfied customer for many years.

Garey - K4OAH
Atlanta

[Non-text portions of this message have been removed]

99. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-08-26 17:41:16 UTC
From: Garey Barrell
Topic: 99 Message: 99

Unique service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

100. NEW DRAKE RADIO?????

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-05 02:13:42 UTC
From: DAVID
Topic: 100 Message: 100

After Drake stopped making the R8B, I was expecting them to produce a super SDR {software defined radio}. But they haven't as yet.
Dave

101. Radios?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-07 01:56:42 UTC
From: Don
Topic: 101 Message: 101

Our group is still pretty new, however we over 60 members allready !
please feel free to use or upload links, pictures or related files to the Group home page.

I myself have only one Drake, a TR-7 with the PS-7 supply, and both are in rough cosmetic condition.
I was wondering about other list members, which models are being used?

My first ever radio was a heatkit HW-101, And I would eventually like to get a nice older Drake set. I can't help it , I like the glow !!

73 Don Ke7ffm
http://groups.yahoo.com/group/DrakeRadio/

[Non-text portions of this message have been removed]

102. RE: [DrakeRadio] Radios?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-07 02:21:39 UTC
From: Walter Milton
Topic: 101 Message: 102

Don,

I have several Drakes on this end. I have a set of Drake twins, TX4C & R4C with a AC-4. I also have a TR4CW/Rit with a AC-4. Last but not least is a TR-6 and a AC-4. I have a RV-4 VFO that I plan on using with the twins and TR4.

This is one other member who sets in the dark and Loves the glow and soft warm tone of a tube radio!

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don
Sent: Wednesday, September 06, 2006 9:57 PM
To: DrakeRadio
Subject: [DrakeRadio] Radios?

Our group is still pretty new, however we over 60 members allready ! please feel free to use or upload links, pictures or related files to the Group home page.

I myself have only one Drake, a TR-7 with the PS-7 supply, and both are in rough cosmetic condition.
I was wondering about other list members, which models are being used?

My first ever radio was a heatkit HW-101, And I would eventually like to get a nice older Drake set. I can't help it , I like the glow !!

73 Don Ke7ffm
http://groups. <http://groups.yahoo.com/group/DrakeRadio/>
yahoo.com/group/DrakeRadio/

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[Non-text portions of this message have been removed]

103. RE: [DrakeRadio] Radios?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-07 02:54:26 UTC
From: Jim Chaggaris
Topic: 101 Message: 103

I too have a few Drakes that I will be posting for the group once the shack is back together. A TR7A line w/all the goodies, TR7 line (soon to be for sale) and a complete mint last edition (pretty close) B-Line that's my pride and joy. I sold the C-Line as it was collecting dust but that's another story.

73's

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Walter Milton
Sent: Wednesday, September 06, 2006 9:22 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Radios?

Don,

I have several Drakes on this end. I have a set of Drake twins, TX4C & R4C with a AC-4. I also have a TR4CW/Rit with a AC-4. Last but not least is a TR-6 and a AC-4. I have a RV-4 VFO that I plan on using with the twins and TR4.

This is one other member who sets in the dark and Loves the glow and soft warm tone of a tube radio!

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On

Behalf Of Don
Sent: Wednesday, September 06, 2006 9:57 PM
To: DrakeRadio
Subject: [DrakeRadio] Radios?

Our group is still pretty new, however we over 60 members allready !
please feel free to use or upload links, pictures or related files to the
Group home page.

I myself have only one Drake, a TR-7 with the PS-7 supply, and both are in
rough cosmetic condition.
I was wondering about other list members, which models are being used?

My first ever radio was a heatkit HW-101, And I would eventually like to get
a nice older Drake set. I can't help it , I like the glow !!

73 Don Ke7ffm
http://groups. <http://groups. <http://groups.yahoo.com/group/DrakeRadio/>
yahoo.com/group/DrakeRadio/>
yahoo.com/group/DrakeRadio/

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

104. Re: Radios?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-07 14:33:08 UTC
From: w1kilofoxtrot
Topic: 101 Message: 104

I've got a pair of TR-3s. One of them has lived a hard life, but works well, and has a -very- clean front panel. The second has had an easier time of it, these last 43 years. It has a companion RV-3, and has had the additional panel installed for transverter use. That combo has a tiny bit less sensitivity on RX, and a tiny bit more gain on TX.

Each of them has gotten me fine QSOs to Europe and the Carribean, with an indoor dipole.

I am considering offering them for sale, so if you're interested, email me...

73,

Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> Our group is still pretty new, however we over 60 members allready !
> please feel free to use or upload links, pictures or related files to the Group home page.
>
> I myself have only one Drake, a TR-7 with the PS-7 supply, and both are in rough cosmetic condition.
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>
> My first ever radio was a heatkit HW-101, And I would eventually like to get a nice older Drake set. I can't help it , I like the glow !!
>
> 73 Don Ke7ffm
> http://groups.yahoo.com/group/DrakeRadio/
>
> [Non-text portions of this message have been removed]
>

105. SPR-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-07 19:03:56 UTC
From: mike maghakian
Topic: 105 Message: 105

I have a nice SPR-4 that was modified by radio west a
long time ago with the BFO/selectivity mod so that
either filter could be used in SSB or AM mode.

$350 plus shipping

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

106. Drake 1525 EM touch tone (DTMF) microphone FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-16 16:05:39 UTC
From: Ken Simpson, W8EK
Topic: 106 Message: 106

Drake 1525 EM Touchtone Microphone For Sale:
-
This is the mic that was used to add a touchtone
pad to a lot of rigs in the 70s and 80s. Normal
hand mic from the front, but has a touchtone pad
on the back. Four pin mic plug.
-
This particular unit has been used, but is in good
shape and includes paper work. $ 40 plus
shipping from Florida.
-
Thanks. 73,
Ken Simpson, W8EK
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400
.

107. TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 00:41:18 UTC
From: Mike-K5VSE
Topic: 107 Message: 107

Hello to all,

My TR4 transmit just quit after being turned off and set for three days. Now there is no BIAS indicated. The manual says V4 is supposed to be an 6HS6 but the tube in the rig is an unmarked 9 pin miniature type. I can't find any markings at all on it. The BIAS voltage is around -58 volts. Screen voltage is close to the manual of 205VDC. When it is keyed, the S/ALC meter pegs! Any help on this one? I have replaced the driver, finals, and mixer. The receiver is just fine, so the PTO is operating right.

Any and all help greatly appreciated.

Thanks
Mike/K5VSE

108. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 01:21:42 UTC
From: Garey Barrell
Topic: 107 Message: 108

Mike -

The final idle current requires only that there is plate voltage, screen voltage and bias voltage applied to the finals, and that the meter shunt resistor is good, and that the relay closes. No other tube has anything to do with the idle current, except for V19b, the 6EV7 relay driver. Bottom line, if there is plate and screen voltage on the finals, and the cathodes are grounded, the current drawn by the finals is limited only by the bias voltage on the grids... or the power supply!

So if the relay is pulling in, the finals WILL draw idle current. Most likely final cathodes are not getting to ground, or the screen voltage is not actually getting to the screens of the finals. There is an RF choke in series with both of these.

REMEMBER!!! There is 650 VDC in there, not to mention 250 VDC!!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> Hello to all,
>
> My TR4 transmit just quit after being turned off and set for three
> days. Now there is no BIAS indicated. The manual says V4 is supposed
> to be an 6HS6 but the tube in the rig is an unmarked 9 pin miniature
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> around -58 volts. Screen voltage is close to the manual of 205VDC.
> When it is keyed, the S/ALC meter pegs! Any help on this one? I have
> replaced the driver, finals, and mixer. The receiver is just fine, so
> the PTO is operating right.
>
> Any and all help greatly appreciated.
>
> Thanks
> Mike/K5VSE
>

109. RE: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 02:12:06 UTC
From: Walter Milton
Topic: 107 Message: 109

Mike,

See if you can adjust the Bias voltage at all. It may be that you lost the Bias circuit. If that is the case repair it before you damage your finals.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Mike-K5VSE
Sent: Monday, September 18, 2006 8:41 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR4 problems? No XMIT

Hello to all,

My TR4 transmit just quit after being turned off and set for three days. Now there is no BIAS indicated. The manual says V4 is supposed to be an 6HS6 but the tube in the rig is an unmarked 9 pin miniature type. I can't find any markings at all on it. The BIAS voltage is around -58 volts. Screen voltage is close to the manual of 205VDC. When it is keyed, the S/ALC meter pegs! Any help on this one? I have replaced the driver, finals, and mixer. The receiver is just fine, so the PTO is operating right.

Any and all help greatly appreciated.

Thanks
Mike/K5VSE

[Non-text portions of this message have been removed]

110. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 05:28:22 UTC
From: K5VSE
Topic: 107 Message: 110

Hi Walt,

Already done that one. Set it for approx -58 VDC. And it varies with the control. As I said, all the voltages appear within specs according to my manual.

Thanks for the tip.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
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L4-B, and Henry 2KD-5 amplifiers
APA 220, USS Okanogan, LSD31, USS Point Defiance
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"In God We Trust"

[Non-text portions of this message have been removed]

111. Re: TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 14:50:58 UTC
From: w1kilofoxtrot
Topic: 107 Message: 111

I've learned to love De-Oxit. My TR-3 No.1 has needed to have its relay bathed in it. Symptoms: no transmit. If the relay contacts are dirty, they won't bring the transmit cathodes to ground, as Gary B. noted. Try manually grounding the cathodes, quickly, and see if the bias shows up.

650V DC hurts like hell. Don't touch it. Been there, done that, didn't want the tee shirt.....

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Hello to all,
>
> My TR4 transmit just quit after being turned off and set for three
> days. Now there is no BIAS indicated. The manual says V4 is supposed
> to be an 6HS6 but the tube in the rig is an unmarked 9 pin miniature
> type. I can't find any markings at all on it. The BIAS voltage is
> around -58 volts. Screen voltage is close to the manual of 205VDC.
> When it is keyed, the S/ALC meter pegs! Any help on this one? I have
> replaced the driver, finals, and mixer. The receiver is just fine, so
> the PTO is operating right.
>
> Any and all help greatly appreciated.
>
> Thanks
> Mike/K5VSE
>

112. Re: [DrakeRadio] Re: TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 17:55:18 UTC
From: K5VSE
Topic: 107 Message: 112

Thanks Steve,

I have checked/cleaned the relay. Actually I found a second relay on the underside of the chassis that I haven't figured out it's purpose yet. But both have been cleaned with our favorite De-Oxit! Will try to manually ground the cathodes to see what happens.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
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APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

113. Re: [DrakeRadio] Re: TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 18:23:33 UTC
From: Garey Barrell
Topic: 107 Message: 113

Mike -

OK. The second relay (under the chassis near the Carrier Oscillator) is
to shift the Carrier Oscillator ~ 900 Hz for CW.

You should be able to do an ohmmeter check with power off to see where
it's getting lost.

The three 15 ohm, 1W resistors all connect to one RFC at the PA cage
under the chassis. An ohmmeter check across that RFC is where I would
start. Then you can check the _voltage_ from that point to ground
when you switch the transmitter to TUNE. You should hear the relay
close and any voltage up to screen voltage at that point should go
almost to zero. (Within 50-100 mV)

Garey - K4OAH
Atlanta

K5VSE wrote:
> Thanks Steve,
>
> I have checked/cleaned the relay. Actually I found a second relay on the
> underside of the chassis that I haven't figured out it's purpose yet. But
> both have been cleaned with our favorite De-Oxit! Will try to manually
> ground the cathodes to see what happens.
>
> Mike/K5VSE
>

114. RE: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-19 22:28:30 UTC
From: Walter Milton
Topic: 107 Message: 114

Mike,

Have you tried changing the 6FQ7 (V19)?

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of K5VSE
Sent: Tuesday, September 19, 2006 1:28 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR4 problems? No XMIT

Hi Walt,

Already done that one. Set it for approx -58 VDC. And it varies with the control. As I said, all the voltages appear within specs according to my manual.

Thanks for the tip.

Mike/K5VSE

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115. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 16:39:02 UTC
From: Jerry Harley
Topic: 107 Message: 115

Walter Milton wrote:
>
> Mike,
>
> Have you tried changing the 6FQ7 (V19)?
>
> Walt, KA2NJF
> Psalm 1
> A Child of the living God
> Walt
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of K5VSE
> Sent: Tuesday, September 19, 2006 1:28 AM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: Re: [DrakeRadio] TR4 problems? No XMIT
>
> Hi Walt,
>
> Already done that one. Set it for approx -58 VDC. And it varies with the
> control. As I said, all the voltages appear within specs according to my
> manual.
>
> Thanks for the tip.
>
> Mike/K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.
> <http://members.tripod.com/~sjsharks/index.html
> <http://members.tripod.com/%7Esjsharks/index.html>>
> tripod.com/~sjsharks/index.html
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> L4-B, and Henry 2KD-5 amplifiers
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> All email scanned with Norton 2006
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> [Non-text portions of this message have been removed]
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>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.5/450 - Release Date: 18/09/2006
>
DO YOU MEAN 6AQ5??

116. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 17:18:18 UTC
From: K5VSE
Topic: 107 Message: 116

Mine doesn't use the 6FQ7, but uses an 6EV7 instead, but it is OK, as the relay closes when keyed or put into the tune mode.

Thanks
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
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[Non-text portions of this message have been removed]

117. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 17:31:05 UTC
From: Garey Barrell
Topic: 107 Message: 117

Walter -

Nope, the 6FQ7 (6EV7 in earlier models) is the relay driver tube. 6AQ5
is the audio output tube.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

Jerry Harley wrote:
> Walter Milton wrote:
>
>> Mike,
>>
>> Have you tried changing the 6FQ7 (V19)?
>>
>> Walt, KA2NJF
>> Psalm 1
>> A Child of the living God
>> Walt
>>
>>
>>
>>
> DO YOU MEAN 6AQ5??
>
>

118. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 18:07:21 UTC
From: Garey Barrell
Topic: 107 Message: 118

Mike -

I know, I was responding to Walt's question about the 6BQ7.

Garey

K5VSE wrote:
> Mine doesn't use the 6FQ7, but uses an 6EV7 instead, but it is OK, as the
> relay closes when keyed or put into the tune mode.
>
> Thanks
> Mike/K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
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119. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 18:13:29 UTC
From: K5VSE
Topic: 107 Message: 119

Garey
Have you come across a TR-4 that uses a 9 pin tube in place of V4, which according to my manual is supposed to be a 6HS6 tube? It sort of looks like it might be a 6EA8/6GH8 type, but there are no markings on this particular tube, so I am unable to identify it. The manual came with the transceiver, but now I doubt that it is the original. This must be one of the real early production TR-4 rigs. I bought one of the conversion kits from John Kriner to replace the relay with the later plug in type, but can't find it at present. I'm sure it will turn out to be the relay, and this afternoon I hope to get out to my shop and do further testing.

Thanks
Mike/K5VSE

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All email scanned with Norton 2006
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[Non-text portions of this message have been removed]

120. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 19:11:24 UTC
From: K5VSE
Topic: 107 Message: 120

Oops!
Sorry 'bout that. Guess I need to pay better attention to what I'm doing. HI
HI

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

121. Re: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 19:16:19 UTC
From: Garey Barrell
Topic: 107 Message: 121

Mike -

What is your serial number?

The TR-3 and very early TR-4s V4 was a 6HS6 (7 Pin). Before s/n 19500,
V4 was changed to a 6EJ7 (9 Pin) which continued through to the end.
Does yours have the "soupcan" (one piece) filter or the two separate
filters?

Garey - K4OAH

K5VSE wrote:
> Garey
> Have you come across a TR-4 that uses a 9 pin tube in place of V4, which
> according to my manual is supposed to be a 6HS6 tube? It sort of looks like
> it might be a 6EA8/6GH8 type, but there are no markings on this particular
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> hope to get out to my shop and do further testing.
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> Thanks
> Mike/K5VSE
>
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> Formerly WB6VSE, Senior Tech. Amateur Division
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> "In God We Trust"
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122. RE: [DrakeRadio] TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 23:27:23 UTC
From: Walter Milton
Topic: 107 Message: 122

Mike,

Just looked thru my notes on my TR4CW. when it would not Key and XMit I had to change the 6FQ7 and D5.

Garey,

I had audio. I think that D5 rectified the signal and applied it to one half of V19 to key the XMit.

All I know is that when I replaced the two I was back in business.

Walt KA2NJF
Psalm 1
A Child of the living God
Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, September 20, 2006 1:31 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR4 problems? No XMIT

Walter -

Nope, the 6FQ7 (6EV7 in earlier models) is the relay driver tube. 6AQ5 is the audio output tube.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

Jerry Harley wrote:
> Walter Milton wrote:
>
>> Mike,
>>
>> Have you tried changing the 6FQ7 (V19)?
>>
>> Walt, KA2NJF
>> Psalm 1
>> A Child of the living God
>> Walt
>>

>>
>>
>>
> DO YOU MEAN 6AQ5??
>
>

[Non-text portions of this message have been removed]

123. Re: [DrakeRadio] Re: TR4 problems? No XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-20 23:28:04 UTC
From: K5VSE
Topic: 107 Message: 123

The serial number is 19985

Now that you mention the 6EJ7, that's what it looks like. I checked the insides to another that I have in stock, and they both are identical. Thanks. Haven't been out in the shop to check the filter configuration yet, but will in the morning. Got to get some of this stuff out, as people are wanting to get their rigs back. Got a rush Kenwood 820 to finish up tomorrow.

Thanks Garey

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

124. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-09-29 18:05:24 UTC
From: Garey Barrell
Topic: 99 Message: 124

Unique service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

125. Re: FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-01 00:36:16 UTC
From: mikemaghakian
Topic: 99 Message: 125

do you plan to make one for the SPR-4 ?

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Unique service information CDs available for the Drake B and C
Lines and
> the 2-B receiver.
>
> These CDs are NOT just scans of the original manuals that were
included
> with the equipment when new.
>
> While high resolution scans of the original manuals ARE on the CDs,
what
> they really offer is high resolution color photos of the under
chassis
> and individual PC boards of each unit with all parts identified and
> keyed to a parts list. This information is not available elsewhere
and
> really makes a difference in servicing these units. Samples of
these
> pages (at reduced resolution) and purchase information are at
> <www.k4oah.com>.
>
> --
> 73, Garey - K4OAH
> Atlanta
>

126. Re: [DrakeRadio] Re: FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-01 18:18:01 UTC
From: Garey Barrell
Topic: 99 Message: 126

Mike -

No plans for the SPR-4. I've never owned one. Perhaps if I come
across a good one at a hamfest.......

Currently I'm working on the TR-4, and if I ever finish that one I may
retire!! :-)

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

mikemaghakian wrote:
> do you plan to make one for the SPR-4 ?
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Unique service information CDs available for the Drake B and C
>>
> Lines and
>
>> the 2-B receiver.
>>
>> These CDs are NOT just scans of the original manuals that were
>>
> included
>
>> with the equipment when new.
>>
>> While high resolution scans of the original manuals ARE on the CDs,
>>
> what
>
>> they really offer is high resolution color photos of the under
>>
> chassis
>
>> and individual PC boards of each unit with all parts identified and
>> keyed to a parts list. This information is not available elsewhere
>>
> and
>
>> really makes a difference in servicing these units. Samples of

>>
> these
>
>> pages (at reduced resolution) and purchase information are at
>> <www.k4oah.com>.
>>
>> --
>> 73, Garey - K4OAH
>> Atlanta
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> Yahoo! Groups Links
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127. TR4 with not XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-01 21:59:41 UTC
From: Mike-K5VSE
Topic: 127 Message: 127

Well, thanks to all who provided helpful info. After I cleaned the relay several times, I finally saturated it with De-Oxit, and it's now working again. While I had it apart, checked all the tubes, cleaned the bandswitch and all controls. Need to wait for two 12BA6 tubes to arrive, as they did not check good. My manual does not aggree with the radio, as V4 is listed as a 6HS6, but actually has a 6EJ7 instead. It appears that after serial number 19500 Drake changed the tubes. Now, I need to locate a manual that matches my transceiver in case there are any more changes that are not apparent.

Keep up the good work folks!
73,
Mike/K5VSE

128. Need Help Connecting My TR-4Cw/rit, To a Collins 75S-1, and 312B-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-03 20:09:05 UTC
From: tngoatee
Topic: 128 Message: 128

I am brand new to Amateur Radio, and I am setting up my shack while preparing for my FCC licensing exams. I need advice so that I can do the following:

1. Use my recently purchased Collins 75S-1 (receiver) to monitor a 2nd frequency, by connecting it to my Drake TR-4Cw/rit.

2. I bought the Collins 312B-4 Station Control (it was selling for a reasonable price on ebay), in hopes that I could hook the 75S-1 to it, and run coax from the 312B-4 to a dedicated receiving antenna, and connect my Drake transceiver to a dedicated transmitting antenna. Or will the Collins gear be incompatible with the Drake transceiver? I do not want to load up my shack (and unnecessarily deplete my chk'g acct) with more than two redundant systems. I would think that two complete HF rigs would be adequate for the ECOMM volunteer work that I want to do. I want to be a radio user, not a collector (naturally, I will also contact the ECOMM group for their input).

3. I would eventually like to hook the 312B-4 into my own phone line, so it can be used as an autopatch for emergency communications (I am joining a local ECOMM radio group).

Bottom Line: Can I do this using the equipment I have just purchased?

Help,

Daniel

129. Hello to our new members!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-12 11:25:45 UTC
From: Don
Topic: 129 Message: 129

For those newest to the group, Welcome!
This group has only been active a little over 4 months now, and we are over 70 members strong, and still with no spam!!
I am sure as the membership climbs there will be even more activity, and more chances to help and support other Drake users.
Please make use of the groups web page on Yahoo, feel free to upload your photo's, files, or links.

73
Don
Ke7ffm

[Non-text portions of this message have been removed]

130. L75 - No output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-13 04:24:30 UTC
From: Jim
Topic: 130 Message: 130

Hello:

I'm new to the forum, but not new to Drake equipment.

I've got an L75 amplifier that is like new, but won't transmit.

The 3-500Z tube is good, and the meter says the high-voltage is there. But when I key the exciter and put 30 watts into the amplifier, there is no output - no grid current, no plate current, no nothing.

To tell the truth, I may have accidentally tried to tune up without a proper load.

Can anyone give me a clue where to start looking? I've taken the cover off and there's no evidence of arcing or any smoked components. Are there any protective diodes that might have burned out? I'm thinking it is a simple fix, but I don't know where to start.

Thanks for the help! 73, Jim KM5M

131. FCC releases long-awaited "Omnibus" Amateur Radio Report and Order

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-13 10:55:06 UTC
From: Don
Topic: 131 Message: 131

ARLB019 FCC releases long-awaited ''Omnibus'' Amateur Radio Report and Order

ZCZC AG19
QST de W1AW
ARRL Bulletin 19 ARLB019
>From ARRL Headquarters
Newington CT October 12, 2006
To all radio amateurs

SB QST ARL ARLB019
ARLB019 FCC releases long-awaited ''Omnibus'' Amateur Radio Report and Order

Ending a protracted waiting period, the FCC's Report and Order in the so-called ''Omnibus'' Amateur Radio proceeding, WT Docket 04-140, was adopted October 4 and released October 10, 2006. In it, the FCC adopted nearly all of the proposed changes in the Notice of Proposed Rulemaking released back in 2004. The FCC has:

+ expanded the phone subbands in the 75 and 40 meter bands;

+ permitted auxiliary stations to transmit on portions of the 2 meter band;

+ permitted the use of spread spectrum on 222-225 MHz;

+ permitted amateurs to retransmit communications from the International Space Station;

+ permitted amateur licensees to designate a specific Amateur Radio club to receive their call sign in memoriam;

+ prohibited an applicant from filing more than one application for a specific vanity call sign;

+ eliminated certain restrictions on equipment manufacturers;

+ permitted Amateur Radio stations in Alaska and surrounding waters more flexibility in providing emergency communications;

+ clarified that ''amateur stations may, at all times and on all frequencies authorized to the control operator, make transmissions necessary to meet essential communication needs and to facilitate relief actions'';

+ deleted the frequency bands and segments specified for RACES stations;

and

+ deleted the requirement for public announcement of test locations and times.

In addition, the FCC took several other miscellaneous actions.

In ''refarming'' the frequencies currently authorized to Novice and Technician Plus licensees, the Commission increased the voice segments for General, Advanced and Amateur Extra licensees.

On 75 meters, Generals will be able to use voice from 3800-4000 kHz, an increase of 50 kHz. Advanced class licensees will be able to use voice from 3700-4000, an increase of 75 kHz, and Amateur Extras will be able to use voice from 3600 to 4000 kHz, a generous increase of 150 kHz.

On 40 meters, Advanced and Extra Class licensees will be able to use voice from 7125-7300 kHz, an increase of 25 kHz. General class licensees will be able to use voice on 7175-7300 kHz, an increase of 50 kHz.

On 15 meters, General class operators will have phone privileges on 21275-21450 kHz, an increase of 25 kHz.

ARRL President Joel Harrison, W5ZN, expressed the ARRL's gratitude to the FCC Commissioners in a letter dated October 11: ''On behalf of the ARRL and the Commission's licensees in the Amateur Radio Service I want to express appreciation for your release yesterday of the Report and Order in WT Docket 04-140 (FCC 06-149) amending Part 97 of the Commission's Rules. The Commission's action in clearing this pending proceeding will assist the Amateur Radio Service in meeting its objectives, particularly with regard to providing emergency and public service communications.''

The changes will go into effect 30 days after the R&O is published in the Federal Register.
NNNN
/EX

[Non-text portions of this message have been removed]

132. Re: [DrakeRadio] FCC releases long-awaited "Omnibus" Amateur Radio Report and Order

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-13 13:13:45 UTC
From: John Silberman
Topic: 131 Message: 132

Wouldn't it also be reasonable to allow Advance class to use the lower 25kc of cw on 40/80? After all, they are 13WPM operators, this is a cw portion of the band, most Extra class are 5wpm operators and they get the use of the lower 25kc, I'd rather that the phone portion.

jsilberman
KB4CRT

On Oct 13, 2006, at 6:55 AM, Don wrote:

> In ''refarming'' the frequencies currently authorized to Novice and
> Technician Plus licensees, the Commission increased the voice
> segments for General, Advanced and Amateur Extra licensees.
>
> On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
> an increase of 50 kHz. Advanced class licensees will be able to use
> voice from 3700-4000, an increase of 75 kHz, and Amateur Extras will
> be able to use voice from 3600 to 4000 kHz, a generous increase of
> 150 kHz.
>
> On 40 meters, Advanced and Extra Class licensees will be able to use
> voice from 7125-7300 kHz, an increase of 25 kHz. General class
> licensees will be able to use voice on 7175-7300 kHz, an increase of
> 50 kHz.

[Non-text portions of this message have been removed]

133. Re: [DrakeRadio] FCC releases long-awaited "Omnibus" Amateur Radio Report and Order

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-13 13:22:10 UTC
From: John Silberman
Topic: 131 Message: 133

I just re-read my post. Sorry, I didn't mean most or all Extras, just the "New Extras" (Small portion of them still use cw and good for them).

jsilberman KB4CRT

On Oct 13, 2006, at 6:55 AM, Don wrote:

134. Re: [DrakeRadio] L75 - No output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-15 22:28:33 UTC
From: Larry Taft
Topic: 130 Message: 134

Jim,

Any success yet in finding the problem? If not , email me and maybe we
can figure out what went wrong.
ltaft@...
73, Larry K2LT Rockport, TX
drakerepair.com

Jim wrote:
> Hello:
>
> I'm new to the forum, but not new to Drake equipment.
>
> I've got an L75 amplifier that is like new, but won't transmit.
>
> The 3-500Z tube is good, and the meter says the high-voltage is there.
> But when I key the exciter and put 30 watts into the amplifier, there
> is no output - no grid current, no plate current, no nothing.
>
> To tell the truth, I may have accidentally tried to tune up without a
> proper load.
>
> Can anyone give me a clue where to start looking? I've taken the cover
> off and there's no evidence of arcing or any smoked components. Are
> there any protective diodes that might have burned out? I'm thinking
> it is a simple fix, but I don't know where to start.
>
> Thanks for the help! 73, Jim KM5M
>
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> Yahoo! Groups Links
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135. Re: [DrakeRadio] L75 - No output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-15 22:44:02 UTC
From: Don
Topic: 130 Message: 135

Jim posted this question on the Amateur-repairs group also, and got a couple of pointers, checking relays and such, But I haven't heard
about any results yet.

Don
Ke7ffm

----- Original Message -----
From: Larry Taft
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 15, 2006 4:28 PM
Subject: Re: [DrakeRadio] L75 - No output

Jim,

Any success yet in finding the problem? If not , email me and maybe we
can figure out what went wrong.
ltaft@...
73, Larry K2LT Rockport, TX
drakerepair.com

Jim wrote:
> Hello:
>
> I'm new to the forum, but not new to Drake equipment.
>
> I've got an L75 amplifier that is like new, but won't transmit.
>
> The 3-500Z tube is good, and the meter says the high-voltage is there.
> But when I key the exciter and put 30 watts into the amplifier, there
> is no output - no grid current, no plate current, no nothing.
>
> To tell the truth, I may have accidentally tried to tune up without a
> proper load.
>
> Can anyone give me a clue where to start looking? I've taken the cover
> off and there's no evidence of arcing or any smoked components. Are
> there any protective diodes that might have burned out? I'm thinking
> it is a simple fix, but I don't know where to start.
>
> Thanks for the help! 73, Jim KM5M
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

136. Re: [DrakeRadio] L75 - No output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-16 00:06:07 UTC
From: Larry Taft
Topic: 130 Message: 136

Thanks, Don.

I hadn't looked at the repair reflector in a while. 73, Larry K2LT

Don wrote:
> Jim posted this question on the Amateur-repairs group also, and got a couple of pointers, checking relays and such, But I haven't heard
> about any results yet.
>
> Don
> Ke7ffm
>
> ----- Original Message -----
>

137. Re: L75 - No output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-17 03:21:51 UTC
From: we5f@aol.com
Topic: 130 Message: 137

Larry, Don:

Thanks for the suggestions.

I just haven't had time to troubleshoot any further. I hope to get to it this weekend.

I'll report the results on both forums.

73, Jim KM5M

We don't stop playing because we get old, we get old because we stop playing.
(author unknown)

[Non-text portions of this message have been removed]

138. Need Drake L4B .82 ohm, 2 watt HV o/p resistor R12

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-20 19:55:24 UTC
From: K4GM George
Topic: 138 Message: 138

"My L4B is down... need the HV o/p resistor R12 ...

.82 ohm 2 watt IRC Type BWH

This is a special type of resistor ..... anyone know of a source?

Dave N3II"

Can anyone help?

George K4GM

[Non-text portions of this message have been removed]

139. Re: [DrakeRadio] Need Drake L4B .82 ohm, 2 watt HV o/p resistor R12

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-20 20:20:29 UTC
From: Larry Taft
Topic: 138 Message: 139

George,

www.harbachelectronics.com/

Look in "Other Parts" for the SPH type resistors for the L-4PS.

Now, the important question...Why did it pop? It is a fuse to prevent destruction of the diodes if something goes in the amp.

73, Larry K2LT
drakerepair.com 800-687-9161

K4GM George wrote:
> "My L4B is down... need the HV o/p resistor R12 ...
>
> .82 ohm 2 watt IRC Type BWH
>
> This is a special type of resistor ..... anyone know of a source?
>
> Dave N3II"
>
> Can anyone help?
>
> George K4GM
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> [Non-text portions of this message have been removed]
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140. Re: [DrakeRadio] Need Drake L4B .82 ohm, 2 watt HV o/p resistor R12

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-20 20:37:22 UTC
From: Garey Barrell
Topic: 138 Message: 140

George -

The BWH resistor is no longer made. The IRC SPH resistor is sold as a "direct replacement" for the BWH, but we don't know if Drake relied on some "undocumented" specification when selecting the BWH! As you found out, the BWH explodes when the HV in the L-4B is shorted, even momentarily (as from a tube flashover,) and we hope that the SPH reacts the same way! Unfortunately IRC doesn't specify the "explosion" characteristics of either type.....

Anyway, Jeff, W8CQ at Harbach Electronics

<http://www.harbachelectronics.com/>

sells the 0.82 ohm at 2W in SPH at five (5) for $5.00.

By the way, there is a school of thought that this resistor should be able to aborb the fault current (without exploding!) long enough for the primary circuit breaker to pop, and should therefore be made larger. YMMV.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service CDs
<www.k4oah.com>

K4GM George wrote:
> "My L4B is down... need the HV o/p resistor R12 ...
>
> .82 ohm 2 watt IRC Type BWH
>
> This is a special type of resistor ..... anyone know of a source?
>
> Dave N3II"
>
> Can anyone help?
>
> George K4GM
>

141. SPR-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-20 23:15:30 UTC
From: mikemaghakian
Topic: 105 Message: 141

this receiver is still for sale and I consider it quite collectable.

--- In DrakeRadio@yahoogroups.com, mike maghakian <mikemaghakian@...>
wrote:
>
> I have a nice SPR-4 that was modified by radio west a
> long time ago with the BFO/selectivity mod so that
> either filter could be used in SSB or AM mode.
>
> $350 plus shipping
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

142. Re: [DrakeRadio] SPR-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-10-20 23:24:23 UTC
From: Edward Sylvester
Topic: 105 Message: 142

Still trying to sell the Sony CRF-230B?? If so, I'm interested.

Thanks,
Ed

mikemaghakian <mikemaghakian@...> wrote:
this receiver is still for sale and I consider it quite collectable.

--- In DrakeRadio@yahoogroups.com, mike maghakian <mikemaghakian@...>
wrote:
>
> I have a nice SPR-4 that was modified by radio west a
> long time ago with the BFO/selectivity mod so that
> either filter could be used in SSB or AM mode.
>
> $350 plus shipping
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

143. Headphone jack on R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-01 22:18:03 UTC
From: Curt Phillips
Topic: 143 Message: 143

I had an R-4A for my first "General Class" receiver (w/ a T4X) from 1970-1976. I now have an R-4B.

I note the R-4A & R-4C had the headphone jack on the front panel, while the R-4B does not. Does anyone know why? It just seems strange that they would make the change for this one model.

It's not important, but I'm just curious.

73,
Curt W4CP
Raleigh, NC
ARRL Life; QCWA

144. Headphone jack on R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-01 22:18:19 UTC
From: Curt Phillips
Topic: 143 Message: 144

I had an R-4A for my first "General Class" receiver (w/ a T4X) from 1970-1976. I now have an R-4B.

I note the R-4A & R-4C had the headphone jack on the front panel, while the R-4B does not. Does anyone know why? It just seems strange that they would make the change for this one model.

It's not important, but I'm just curious.

73,
Curt W4CP
Raleigh, NC
ARRL Life; QCWA

145. Re: [DrakeRadio] Headphone jack on R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-01 23:07:48 UTC
From: Garey Barrell
Topic: 143 Message: 145

Curt -

I think they made a mistake, and corrected it! There are quite a few R-4Bs WITH a front panel phone jack too..... I know of two that I modified back in the 60's. The centerpunch mark was on the B front panel, (a tiny circle,) and the hole was also present in the chassis. It was simply a matter of drilling the front panel for 3/8" on that center, mounting the new jack, and moving one wire.

They obviously responded to customer concern and moved it back to the front on the C Line!

--
73, Garey - K4OAH
Chicago

Drake 2-B, B & C Line Service Supplement CDs
<www.k4oah.com>

Curt Phillips wrote:
> I had an R-4A for my first "General Class" receiver (w/ a T4X) from
> 1970-1976. I now have an R-4B.
>
> I note the R-4A & R-4C had the headphone jack on the front panel,
> while the R-4B does not. Does anyone know why? It just seems strange
> that they would make the change for this one model.
>
> It's not important, but I'm just curious.
>
> 73,
> Curt W4CP
> Raleigh, NC
> ARRL Life; QCWA
>
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> Yahoo! Groups Links
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146. Re: [DrakeRadio] Headphone jack on R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-01 23:16:45 UTC
From: Garey Barrell
Topic: 143 Message: 146

One factor in Drake's favor.... A phone plug inserted in the front panel PHONES jack makes it a little awkward to access the RF GAIN and the MODE switch. This is most likely why they moved it to the side originally..

73, Garey - K4OAH
Chicago

Drake 2-B, B & C Line Service Supplement CDs
<www.k4oah.com>

Garey Barrell wrote:
> Curt -
>
> I think they made a mistake, and corrected it! There are quite a few
> R-4Bs WITH a front panel phone jack too..... I know of two that I
> modified back in the 60's. The centerpunch mark was on the B front
> panel, (a tiny circle,) and the hole was also present in the chassis.
> It was simply a matter of drilling the front panel for 3/8" on that
> center, mounting the new jack, and moving one wire.
>
> They obviously responded to customer concern and moved it back to the
> front on the C Line!
>
>

147. Misty Hollow DDS VFO FOR DRAKE TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-04 01:57:13 UTC
From: Don
Topic: 147 Message: 147

Being more of a tr-7 user myself, the reviews on these vfo's look pretty good

http://www.eham.net/reviews/detail/5054

Don
Ke7ffm

[Non-text portions of this message have been removed]

148. Help! 2B - bands over 14 MHz inoperative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-08 03:44:25 UTC
From: carl solomon
Topic: 148 Message: 148

I need help with Drake 2B which won't receive above 14 MHz band. I'm wondering if the plug-in crystals may be a little scrambled in their slots, a defective crystal, or maybe bandswitch problem(?). In 15M or any of the 10M bandswitch positions, I get weak receiver hiss but can't peak on a signal, including the calibrator. 80M, 40M and 20M work just fine.

Would someone out there be kind enough to provide me with crystal frequencies and slots they should be plugged into, for normal setup of the radio?

Many thanks and '73

/Carl - W5SU
Dallas TX

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

149. Re: [DrakeRadio] Help! 2B - bands over 14 MHz inoperative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-08 04:03:21 UTC
From: Garey Barrell
Topic: 148 Message: 149

Carl -

Here is the chart for the crystals. You'll note that only three crystals were provided with the receiver from the factory, plugging into the sockets marked "40" (11.0 MHz), "20" (18.0 MHz) and "10v2" (25.0 MHz). The 25.0 MHz crystal serves for both 15M and the 28.5 - 29.1 portion of 10M.

If the crystal IS present in the 10v2 slot and is 25.0 MHz, you might try a 6EA8 in the V2 position. This tube has higher gain than the original 6U8, and often will "revive" sluggish crystals.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

carl solomon wrote:
> I need help with Drake 2B which won't receive above 14 MHz band. I'm wondering if the plug-in crystals may be a little scrambled in their slots, a defective crystal, or maybe bandswitch problem(?). In 15M or any of the 10M bandswitch positions, I get weak receiver hiss but can't peak on a signal, including the calibrator. 80M, 40M and 20M work just fine.
>
> Would someone out there be kind enough to provide me with crystal frequencies and slots they should be plugged into, for normal setup of the radio?
>
> Many thanks and '73
>
> /Carl - W5SU
> Dallas TX
>
>

[Non-text portions of this message have been removed]

150. Guys, does this seem easonsable to you?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-08 15:27:40 UTC
From: N9JCQ@aol.com
Topic: 150 Message: 150

have a Drake UV-3, fully functional, with all 3 bands, the Drake PS-3(?) power supply for the UV-3, and a brand new, in the box remote mounting mobile kit for the UV-3. The radio works great and until recently, it was my only VHF/UHF radio. The top is the sticky rubber stuff and looks its age. The back light for the s meter is out. Other than that, it's perfect.

As this radio and accessories are not being used, I thought I'd use it as partial trade for an R-7 or R-7A. Am I dreaming or do you think this is good substantial partial payment?
Joe, N9JCQ

Check out the new AOL. Most comprehensive set of free safety and security tools, free access to millions of high-quality videos from across the web, free AOL Mail and more.

151. Re: Help! 2B - bands over 14 MHz inoperative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-09 02:38:04 UTC
From: cdsol111
Topic: 148 Message: 151

Garey -

Many thanks for the info. I tried your suggestions, but darned if it still doesn't work. Thinking that maybe my 25 MHz crystal might be defective, I tried it in the "D" slot, with bandswitch in "D" position and I could peak some calibrator signals. But no response on 15M or any of the 10M switch positions while that X-ral is in 2nd 10M slot. There is hiss and faint calibrator signal but nothing that preselector will peak on.

I also traded a 6EA8 for the 6U8 but no difference there either.

Any other obvious possibilities come to mind? I may start to think about a defective part of bandswitch...ya' think?

Again, many thanks and '73!

/carl - w5su
Dallas TX

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Carl -
>
> Here is the chart for the crystals. You'll note that only three
> crystals were provided with the receiver from the factory, plugging
into
> the sockets marked "40" (11.0 MHz), "20" (18.0 MHz) and "10v2"
(25.0
> MHz). The 25.0 MHz crystal serves for both 15M and the 28.5 -
29.1
> portion of 10M.
>
> If the crystal IS present in the 10v2 slot and is 25.0 MHz, you
might
> try a 6EA8 in the V2 position. This tube has higher gain than the
> original 6U8, and often will "revive" sluggish crystals.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>

> carl solomon wrote:
> > I need help with Drake 2B which won't receive above 14 MHz band. I'm wondering if the plug-in crystals may be a little scrambled in their slots, a defective crystal, or maybe bandswitch problem(?). In 15M or any of the 10M bandswitch positions, I get weak receiver hiss but can't peak on a signal, including the calibrator. 80M, 40M and 20M work just fine.
> >
> > Would someone out there be kind enough to provide me with crystal frequencies and slots they should be plugged into, for normal setup of the radio?
> >
> > Many thanks and '73
> >
> > /Carl - W5SU
> > Dallas TX
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

152. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-10 19:41:04 UTC
From: Garey Barrell
Topic: 99 Message: 152

Unique supplemental service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

153. Restoration questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-13 14:29:12 UTC
From: cdsol111
Topic: 153 Message: 153

(To Garey - THANKS for the help in getting my 2-B back in action...electrically now works great.)

This is something that's probably been addressed before, but when restoring old radios (Drake or otherwise) is restoring the cabinet a "do-it-yourself" thing, or is it best left up to being done professinally. Is it OK to attack the pitted and rusty spots with a whiz-wheel, strip the paint, apply primer then spray paint?

How 'bout the chasis, accumulated dirt, and especially the darkened areas on the copper? What's best way to free up stiff rotary switches...what kind of cleaner or lube?

I'll bet there's a website or book that goes thru all this...I just haven't seen it.

Thanks!

Carl - W5SU
Dallas TX

154. Re: [DrakeRadio] Restoration questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-13 15:21:31 UTC
From: Garey Barrell
Topic: 153 Message: 154

Carl -

You're welcome!

The 2-B cabinet is one that lends itself to home rework. Rustoleum #7777 Satin Black is a VERY close match to the original color and sheen. The front panel is a different problem, of course. It would be a very easy silk-screen to make, flat panel, single color, etc. I have a friend locally who looked into doing it, and found someone who would burn a screen for him (using his provided artwork) for $60. He hasn't done anything yet. I spoke with the guy who is making the 4 Line repro panels, and he said that he didn't believe the market would be sufficient to justify the expense. Dee, W4PNT, who does the Johnson rework said essentially the same thing. I don't know if Frank (my friend) would be interested in getting together a bunch of panels for a one time shot. You can make a lot of panels from one screen, but they don't clean and store very well, making it best if you do all you want to do at one time.

The copper is a different problem. Frank has tried plating with the little brush plating systems. The problem is that newly plated copper doesn't have that "patina" that converts it from a "new penny" copper to "old penny brown". Some have used paint, available from craft stores, and some have gone to further extremes.

<http://www.wb4hfn.com/DRAKE/DrakeArticles/ChassisCleaning/ChassisCleaning.htm>

Both methods though are "repairs" rather than "restorations", at least in my opinion.

Rotary switches are usually stiff because the lubrication that was originally on the ball detent assembly is long gone. A little Lubriplate or other white lithium grease will go a long way to freeing them up. A drop of light oil on the shaft bushing is also a help. I would strongly advise against trying to "mechanically" clean rotary switches with Q-tips or other tools. The fixed contacts especially are fairly delicate, and can be "sprung" very easily, destroying the contact. The black coating on silver switch parts is Silver Sulfide, which is nearly as conductive as silver and very soft. If you look closely at a blackened switch wiper, you'll see a bright silver line where the fixed contacts have scrubbed off the black. Silver "cleaners" ALL work by removing the Silver Sulfide, either by chemical or mechanical means. Unfortunately, Silver Sulfide consists of some of the silver plating! Meaning you are removing some of what is often a fairly thin layer of silver each time you use these products. Much better is to use a good quality contact cleaner such as DeoxiT D100L LIQUID, and

apply a small amount directly to each switch tag. Do NOT use a spray cleaner on phenolic (brown) rotary switches. SOME solvents will damage SOME phenolic wafers, causing them to swell and distort.

Control potentiometers are best cleaned with DeoxiT CaiLube spray. A small spritz inside a pot will clean and lubricate it, making it quiet, and feeling like new. This same product works well on the Drake slide switches, again a SMALL spritz frees them up.

There is a LOT of good information on the WB4HFN website, referenced above. Well worth spending some time looking around.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

cdsol111 wrote:
> (To Garey - THANKS for the help in getting my 2-B back in
> action...electrically now works great.)
>
> This is something that's probably been addressed before, but when
> restoring old radios (Drake or otherwise) is restoring the cabinet a
> "do-it-yourself" thing, or is it best left up to being done
> professinally. Is it OK to attack the pitted and rusty spots with a
> whiz-wheel, strip the paint, apply primer then spray paint?
>
> How 'bout the chasis, accumulated dirt, and especially the darkened
> areas on the copper? What's best way to free up stiff rotary
> switches...what kind of cleaner or lube?
>
> I'll bet there's a website or book that goes thru all this...I just
> haven't seen it.
>
> Thanks!
>
> Carl - W5SU
> Dallas TX
>
>
>
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>
> Yahoo! Groups Links
>
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>

155. Announcing the Sale of International Radio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-14 20:26:56 UTC
From: Garey Barrell
Topic: 155 Message: 155

>>>>>>>>>>>> FORWARDED MESSAGE <<<<<<<<<<<<<<

-----Original Message-----
From: list-bounces@... on behalf of International Radio
[inrad@...]
Sent: Tuesday, November 14, 2006 8:06 AM
Subject: [INRAD] Announcement

ANNOUNCING THE SALE OF INTERNATIONAL RADIO

George, W2VJN and Georgia are pleased to announce that effective January 1st, 2007 International Radio will be under new ownership. We wish to thank our many customers for their business and friendship over the almost ten years we have owned this company. We have learned much and worked hard, and it has all been good, but it is time for us to look ahead.

International Radio will be in the very capable hands of new owners Trey, N5KO, and Mark, AG9A. Trey and Mark are dedicated radio amateurs who appreciate all aspects of this hobby - especially contesting! They have ideas for the future, and they will not only sustain Inrad; they will improve it. We look forward to helping them succeed in any way we can. In particular, George will stay involved in the development of new products.

For more than two years we have been assisted by Laurie, our employee extraordinaire. Many of you know her and we know you join us in thanking her for her hard work and dedication. We will keep her as a valued friend.

Our final day in business will be December 15th, 2006. International Radio will then be CLOSED until January 1st, 2007. Watch the website for the announcement of the annual New Year's Day Sale.

>>>>>>>>>>>> FORWARDED MESSAGE <<<<<<<<<<<<<<

--
73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

156. Re: [DrakeRadio] Announcing the Sale of International Radio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-14 21:48:51 UTC
From: Don
Topic: 155 Message: 156

Wow, I didn't see that coming. Inrad has a pretty good rep. from all that I have seen. At least the doors are not being closed,
but handed off to so to keep it going and growing.
Don
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, November 14, 2006 1:26 PM
Subject: [DrakeRadio] Announcing the Sale of International Radio

>>>>>>>>>>>> FORWARDED MESSAGE <<<<<<<<<<<<<

-----Original Message-----
From: list-bounces@... on behalf of International Radio
[inrad@...]
Sent: Tuesday, November 14, 2006 8:06 AM
Subject: [INRAD] Announcement

ANNOUNCING THE SALE OF INTERNATIONAL RADIO

George, W2VJN and Georgia are pleased to announce that effective January 1st, 2007 International Radio will be under new ownership. We wish to thank our many customers for their business and friendship over the almost ten years we have owned this company. We have learned much and worked hard, and it has all been good, but it is time for us to look ahead.

International Radio will be in the very capable hands of new owners Trey, N5KO, and Mark, AG9A. Trey and Mark are dedicated radio amateurs who appreciate all aspects of this hobby - especially contesting! They have ideas for the future, and they will not only sustain Inrad; they will improve it. We look forward to helping them succeed in any way we can. In particular, George will stay involved in the development of new products.

For more than two years we have been assisted by Laurie, our employee extraordinaire. Many of you know her and we know you join us in thanking her for her hard work and dedication. We will keep her as a valued friend.

Our final day in business will be December 15th, 2006. International Radio will then be CLOSED until January 1st, 2007. Watch the website for the announcement of the annual New Year's Day Sale.

>>>>>>>>>>>> FORWARDED MESSAGE <<<<<<<<<<<<<

--
73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

157. test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-11-30 03:10:06 UTC
From: donfrasher
Topic: 157 Message: 157

test

158. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-02 20:20:39 UTC
From: Garey Barrell
Topic: 99 Message: 158

Unique supplemental service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

160. TR-4 with no mute in X-Tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-06 23:45:11 UTC
From: Mike-K5VSE
Topic: 160 Message: 160

Hi to the list,

The TR-4 first quit transmitting after using it one night. The next day it would not transmit at all. Turned out to be the relay of course. Use it from time to time, and yesterday, I decided to try it out again. When you go into the X-tune position, it tunes, but will not mute the receive section. Re-checked the relay and all is well. Anyone got any suggestions on this one? It's a first for me!

You can respond here or off list at k5vs@... if necessary. I don't always check this list on a regular basis.

Thanks in advance for any help. BTW, the rig works fine as it is, but the lack of muting is troublesome.

WEB site: http://members.tripod.com/~sjsharks/index.html

Mike/K5VSE

161. RE: [DrakeRadio] No mute on the tune position on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-06 23:44:42 UTC
From: Walter Milton
Topic: 161 Message: 161

Mike,

Does your model of the TR-4 have the Rcx/Transcive switch on the side? I s
make sure that the switch is in the transcive position.

Walt. KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of Mike-K5VSE
Sent: Wednesday, December 06, 2006 6:34 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] No mute on the tune position on TR-4

Hi to the list,

The TR-4 first quit transmitting after using it one night. The next
day it would not transmit at all. Turned out to be the relay of
course. Use it from time to time, and yesterday, I decided to try it out
again. When you go into the X-tune position, it tunes, but will not
mute the receive section. Re-checked the relay and all is well. Anyone
got any suggestions on this one? It's a first for me!

You can respond here or off list at k5vs@earthlink.
<mailto:k5vs%40earthlink.net> net if necessary. I
don't always check this list on a regular basis.

Thanks in advance for any help. BTW, the rig works fine as it is, but
the lack of muting is troublsome.

WEB site: http://members. <http://members.tripod.com/~sjsharks/index.html>
tripod.com/~sjsharks/index.html

Mike/K5VSE

[Non-text portions of this message have been removed]

162. Re: [DrakeRadio] No mute on the tune position on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-07 01:15:17 UTC
From: K5VSE
Topic: 161 Message: 162

Yeah Walt,

It sure does, and it's in the transceive position. I always check it, because while working on those beasts the switch will always get moved. HI HI

Thanks
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

163. Up-date on No mute on TR-4 in X-tune position

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-09 00:21:18 UTC
From: Mike-K5VSE
Topic: 163 Message: 163

Well, I learned a lesson. When you loan a piece of equipment to someone who is not used to using these old rigs, check everything simple first. What I found, was he had turned the side tone all the way to the max, and I only thought it was not muting while I was trying to tune it up. Live and learn I guess. Sorry for the trouble I may have caused some of you, and to those who gave me some suggestions, thank you very much. I have moved it from the shop to the house and will have it on the air tonight.

Mike/K5VSE

164. Re: [DrakeRadio] Up-date on No mute on TR-4 in X-tune position

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-09 01:53:10 UTC
From: Don
Topic: 163 Message: 164

Glad to hear that you got it figured out. and no trouble. I think we have all had that type of thing happen !
Don
Ke7ffm

----- Original Message -----
From: Mike-K5VSE
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 08, 2006 5:21 PM
Subject: [DrakeRadio] Up-date on No mute on TR-4 in X-tune position

Well, I learned a lesson. When you loan a piece of equipment to someone who is not used to using these old rigs, check everything simple first. What I found, was he had turned the side tone all the way to the max, and I only thought it was not muting while I was trying to tune it up. Live and learn I guess. Sorry for the trouble I may have caused some of you, and to those who gave me some suggestions, thank you very much. I have moved it from the shop to the house and will have it on the air tonight.

Mike/K5VSE

[Non-text portions of this message have been removed]

165. Fw: deathmatch PSK question 80M freq?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-14 22:31:36 UTC
From: Don
Topic: 165 Message: 165

----- Original Message -----
From: Chuck LeMar W8VOM
To: drfrasher@...
Sent: Thursday, December 14, 2006 2:17 PM
Subject: Re: deathmatch question 80M freq?

Proposed New 80 meter Bandplan for USA

3500-3540 = CW
3540-3560 = 500Hz BW All Modes.
3560-3580 = 500Hz BW All Modes. Including Auto.
3580-3600 = All Modes. Including Auto.

Proposed New Calling Frequencies
3539 QRP CW
3545+ PSK31
3548+ PSK63, MFSK16, Olivia500, etc
3552+ Hell, etc
3555+ RTTY, FSK, etc

-------Original Message-------

From: Don
Date: 12/13/06 13:21:00
To: Chuck LeMar W8VOM
Subject: deathmatch question 80M freq?

With the bandplan changes taking place right before the contest, what will be the recommend psk freq. on 80?
I have received the following on another yahoo groups email reflector.

Don Ke7ffm

[Non-text portions of this message have been removed]

166. Re: Fw: deathmatch PSK question 80M freq?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-15 20:09:19 UTC
From: Don
Topic: 165 Message: 166

Thanks for the response. I realize the ARRL plan will probably carry
the day, now that they have presented it. What I posted was out before
this, and just had me asking questions, as I use these modes (primarily
psk), and realize some changes were needed. I did not intend to add to any
confusion, my hope was to clarify/ generate a definite answer as to what the
new band plan would be.
ARRL's new bandplan
80 Meters (3.5-4.0 MHz):
3.590 RTTY/Data DX
3.570-3.600 RTTY/Data
3.790-3.800 DX window
3.845 SSTV
3.885 AM calling frequency

Thanks again,
Don
KE7FFM

----- Original Message -----
From: "Richard Ferch" <ve3iay@...>
To: "Don" <drfrasher@...>
Sent: Friday, December 15, 2006 12:32 PM
Subject: Re: Fw: deathmatch PSK question 80M freq?

The proposal quoted below was from one person representing a special
interest group (Winlink). It does not in any way reflect a consensus
among amateurs at large, nor is it likely to be reflected in actual
practice, since it would be totally inadequate to accommodate current
CW and RTTY traffic nets, etc.

For the revised ARRL bandplan after the December 15 change, see
<http://www.arrl.org/FandES/field/regulations/bandplan.html>. The
former RTTY segment at 3.580-3.620 MHz is now an RTTY/Data segment at
3.570-3.600 MHz. This means that past practice for PSK31 (3.580 kHz
plus audio offset) could continue, or PSK31 could move down as much
as 10 kHz to 3.570 MHz plus audio offset to get away from the W1AW CW
code practice.

73,
Rich VE3KI

--- In psk31@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
>
> ----- Original Message -----
> From: Chuck LeMar W8VOM

> To: drfrasher@...
> Sent: Thursday, December 14, 2006 2:17 PM
> Subject: Re: deathmatch question 80M freq?
>
>
> Proposed New 80 meter Bandplan for USA
>
> 3500-3540 = CW
> 3540-3560 = 500Hz BW All Modes.
> 3560-3580 = 500Hz BW All Modes. Including Auto.
> 3580-3600 = All Modes. Including Auto.
>
> -------
> Proposed New Calling Frequencies
> 3539 QRP CW
> 3545+ PSK31
> 3548+ PSK63, MFSK16, Olivia500, etc
> 3552+ Hell, etc
> 3555+ RTTY, FSK, etc
>
>
> -------Original Message-------
>
> From: Don
> Date: 12/13/06 13:21:00
> To: Chuck LeMar W8VOM
> Subject: deathmatch question 80M freq?
>
> With the bandplan changes taking place right before the
contest, what will be the recommend psk freq. on 80?
> I have received the following on another yahoo groups email
reflector.
>
> Don Ke7ffm
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

167. Fw: [dx-list] FCC ELIMINATES CW EXAM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-16 03:17:09 UTC
From: Don
Topic: 167 Message: 167

NO more morse code to get your license, and all tech now have the Tech Plus privileges

---

Subject: [dx-list] FCC ELIMINATES CW EXAM

THEY DID IT.....

http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-269012A1.pdf

[Non-text portions of this message have been removed]

168. TR7 Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-17 20:06:03 UTC
From: Geoffrey
Topic: 168 Message: 168

I have a Drake TR7 which has distorted audio on transmit, it is like the radio is being overdriven, however even with the mic gain way down the audio is better, but still distorted. The audio is high, tinny and scratchy, if that makes sense. I have tried a couple of different microphones with the same result. Where do I start with this one fellows? 73 Geoff

169. Re: [DrakeRadio] TR7 Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-17 20:33:12 UTC
From: Don
Topic: 168 Message: 169

I would hope others may have had expereince with this problem and will help out. for myself, it is a new one.
Do you have a good copy of the service manual?
I have found that by following the alignment procedure all the way through an help to isolate the section that may be causing the problem. and sometimes, just re-aligning can help or even cure these kind of problems.
please keep us up to date on any findings.

Don

----- Original Message -----
From: Geoffrey
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 17, 2006 1:06 PM
Subject: [DrakeRadio] TR7 Distorted Audio

I have a Drake TR7 which has distorted audio on transmit, it is like
the radio is being overdriven, however even with the mic gain way down
the audio is better, but still distorted. The audio is high, tinny and
scratchy, if that makes sense. I have tried a couple of different
microphones with the same result. Where do I start with this
one fellows? 73 Geoff

[Non-text portions of this message have been removed]

170. Thanks to all!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-24 19:17:26 UTC
From: Don
Topic: 170 Message: 170

I would like to take a moment and say thanks to those who joined this group! Our group is still pretty new,
and slowly growing. For those whoe are meore recent to the group, this one was started in response to the older , bigger group was allowing a lot of spam e-mail , and that groups owner was no longer around.
So , hopefully, with time and letting others know we are here, this group will grow a little larger, to where we might be even more helpful in regards to the care and feeding of these great Drake radios.
Again, thanks to all in the group,
And Merry Christmas!!

Don
ke7ffm

[Non-text portions of this message have been removed]

171. Fw: An EE's 'Twas the night before Christmas

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-24 23:52:49 UTC
From: Don
Topic: 171 Message: 171

Electronics Engineer's
T'was the Night Before Christmas

'Twas the night before Christmas and all through production,
We were measuring currents and checking induction,
Capacitors mounted, diodes seated with care,
In the hope that the circuit soon would be there.

All ICs positioned, each pin seated right,
Our soldering irons were turned off for the night,
Transistors were stowed, not a circuit was shorted,
And resistors all packed, by ohms they were sorted.

But still one more task lay ahead, just for me -
Another few hours on my new PCB,
Just for good measure I gave it a poke,
And the 15 volt rail went up in grey smoke.

Electrolytic capacitors popped and went bang,
Resistors went meltdown, connectors snapped with a twang,
The PSU - open circuit, the current killed diodes,
So I snatched up the solder and reached for my probes.

I pulled out my meter, I prodded and twiddled,
First blew out the ground rail, then re-routed and fiddled,
An inductor coil here and there a resistor,
Transplanted an IC, cross-connected transistors,

A diode reversed and an upgraded cap,
A little more solder to bridge a small gap -
My tolerances tiered to the umpteenth degree,
But still it lay lifeless, that damned PCB!

Then out in the main lab I heard such a clatter,
I tore off my wrist strap to find what was the matter -
In the anti-stat bay a fine sled had appeared,
With reindeer and earth-strap and a man with white beard.

His fine stamping reindeer were led, I did see,
By one whose nose was a bright red LED;
Trimming their harnesses were components and bits,
Bright coded resistors and surface-mount chips.

The white-bearded man tipped open a sack,
And like jewels some components trickled out of his pack,
With a nod and a wink he heated my iron,
And laid down a fresh circuit of finest gold wire.

Some ICs he placed with great care on the board,
Along with transformers from his own gleaming hoard,
The board was soon finished, held up for inspection,
All test points in place, all power rails checked on.

Then he gathered his meter, his twiddlers and tools,
Scooped up the components which lay like bright jewels,
Gave me a handful and said with a wink,
"I've twiddled the RF, please see what you think."

Then his sled with its diodes all flashing and bright,
Clattered out of the anti-stat into the night,
Just 'fore he vanished he reached over his shoulder,
Threw me a new wrist-strap and a big reel of solder.

"On Henry! On Farad! On Voltage and Ohm!
On Ampere, Transformer, reverse-fitted Diode!
We've surface-mount circuits and more things electronic!"
As he took to the skies and went supersonic.

But I heard him exclaim as he vanished from sight,
Merry Christmas to all, and to all no short-circuits tonite!!

[Non-text portions of this message have been removed]

172. Wrong manual for my R4-Ca

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-25 18:59:01 UTC
From: Mike-K5VSE
Topic: 172 Message: 172

Merry Christmas to all!

I was using my Drake R4-C the past couple of days, and the signal strength seemed to going down. So I pull out the manual to determine what tubes I should start checking. Well my manual says there are supposed to be at least three 6EJ7 tubes in the thing. Mine does NOT have any 6EJ7 tubes at all. It uses 6BA6's, 6BE6's, and 6HS6's. So, question is: Do I have either an earlier version, or a later version of this receiver? I guess I need a manual for whatever version I have.

By the serial number I believe it is an early version. Ser # 16929

Any help will be kindly appreciated.

Thanks es 73,

Mike/K5VSE

173. Re: [DrakeRadio] Wrong manual for my R4-Ca

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-25 19:37:37 UTC
From: Garey Barrell
Topic: 172 Message: 173

Mike -

From my C-Line CD.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> Merry Christmas to all!
>
> I was using my Drake R4-C the past couple of days, and the signal
> strength seemed to going down. So I pull out the manual to determine
> what tubes I should start checking. Well my manual says there are
> supposed to be at least three 6EJ7 tubes in the thing. Mine does NOT
> have any 6EJ7 tubes at all. It uses 6BA6's, 6BE6's, and 6HS6's. So,
> question is: Do I have either an earlier version, or a later version
> of this receiver? I guess I need a manual for whatever version I have.
>
> By the serial number I believe it is an early version. Ser # 16929
>
> Any help will be kindly appreciated.
>
> Thanks es 73,
>
> Mike/K5VSE
>
>
>
>
>
> Yahoo! Groups Links
>
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>
>

[Non-text portions of this message have been removed]

174. Re: Wrong manual for my R4-Ca

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-27 04:36:07 UTC
From: Maxxtracks
Topic: 172 Message: 174

Let me know if you find a fix for it. I have a R-4C doing the same thing kinda sorta. RX works ok some times then falls out. Overall receive is not great either when its 100% working. I see that there are 2 low level rca's that connect the osc and rx ant. Does yours have that from that transmitter to receiver or is that unit you have a transceiver? I am going to change to either rg-58 or rg-62 cable to see if the sensitivity goes up. I am using a home made preamp to make it a tad better. I am not familiar with the Ca version.

Bobby
KE4UNG

175. Re: [DrakeRadio] Re: Wrong manual for my R4-Ca

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-28 06:43:08 UTC
From: K5VSE
Topic: 172 Message: 175

Bobby,

Mine is a complete set of Drake twins, the "C" line, not a transceiver! I think, from reading some of the posts on this and other places, that the INJ cable is more or less critical. Seems I've heard RG-62 will work, but length has an effect on overall performance. There are cable sets that are listed from time to time on the "E" place if you want original replacements. But, I don't think it's a cable problem. I have stopped my problem by removing all the cables, and cleaning the sockets and cable ends using De-Oxit. Now I no longer have the problem. Might have just been pure luck on my part. I'll give it a few days to see.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

176. Drake color VHF wattmeter FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-30 15:04:29 UTC
From: Ken Simpson, W8EK
Topic: 176 Message: 176

For Sale:

Heath HM-2102 VHF wattmeter in Drake color

It covers 50 to 160 MHz, with 25 W and 250 W
full scale. It can also be used to check SWR, and
has a remote sensor that can either be left inside
the meter, or separated from the actual meter.
SO-239 connectors in and out.

This particular meter looks different, however.
The cover has been painted to match Drake
equipment. The cover is black, similar to the
Drake TR-4, 4 line twins, etc. If you like Heath
green, it is ugly; if you like Drake black, it is fine.
Paper work included for $40.

Drake 1525 EM Touchtone Microphone
This is the mic that was used to add a touchtone
pad to a lot of rigs in the 70s and 80s. Normal
hand mic from the front, but has a touchtone pad
on the back. Four pin mic plug.
It is in good shape and includes paper work. $ 40

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

177. TR-3 parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-31 04:38:34 UTC
From: kp3ft
Topic: 177 Message: 177

Hi all,
Does anyone know of a parts source for the Drake rigs? I need a band-switch assembly for my TR-3. It's the entire switch unit that goes from the front all the way to the back of the rig. The contact are very bad in mine, and I doubt that cleaning would have any effect.
Thanks and 73
Jeff KP3FT

178. Re: [DrakeRadio] TR-3 parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-31 15:43:36 UTC
From: F Broussard
Topic: 177 Message: 178

Hi Jeff,
I have a TR-3 available for parts or repair. I believe
the crystal filter is bad. I can tune stations no
matter what the position of the sideband switch. The
finals are good, this would give you an extra set of
finals. Two of the 12BA6 tubes did not light up. I
tested with two from my spares and the receiver works.
I will keep my 12BA6's, but you will get all the other
tubes including a new driver I installed. The front
panel is in excellent condition.

Francis Broussard WB5LWP

--- kp3ft <kp3ft@...> wrote:

> Hi all,
> Does anyone know of a parts source for the Drake
> rigs? I need a
> band-switch assembly for my TR-3. It's the entire
> switch unit that
> goes from the front all the way to the back of the
> rig. The contact
> are very bad in mine, and I doubt that cleaning
> would have any effect.
> Thanks and 73
> Jeff KP3FT
>
>

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179. Re: [DrakeRadio] TR-3 parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-31 16:19:06 UTC
From: Jeff KP3FT
Topic: 177 Message: 179

Hi Francis,
Tnx for the email. That's even better than I expected... How much for the TR-3?
73
Jeff KP3FT

F Broussard <d104_1@...> wrote: Hi Jeff,
I have a TR-3 available for parts or repair. I believe
the crystal filter is bad. I can tune stations no
matter what the position of the sideband switch. The
finals are good, this would give you an extra set of
finals. Two of the 12BA6 tubes did not light up. I
tested with two from my spares and the receiver works.
I will keep my 12BA6's, but you will get all the other
tubes including a new driver I installed. The front
panel is in excellent condition.

Francis Broussard WB5LWP

--- kp3ft <kp3ft@...> wrote:

> Hi all,
> Does anyone know of a parts source for the Drake
> rigs? I need a
> band-switch assembly for my TR-3. It's the entire
> switch unit that
> goes from the front all the way to the back of the
> rig. The contact
> are very bad in mine, and I doubt that cleaning
> would have any effect.
> Thanks and 73
> Jeff KP3FT
>
>

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[Non-text portions of this message have been removed]

180. Re: [DrakeRadio] TR-3 parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-31 18:08:49 UTC
From: F Broussard
Topic: 177 Message: 180

Hello Jeff,
How about $60.00 + shipping costs. I believe UPS
Ground will be the least expensive shipping. I guess
around $20-$25 for shipping, but I will not know for
sure until it is packed and I have your address. To
keep things simple, I will accept a check or money
order for $80.00 for the TR-3 and shipping. If you
send a check I will wait for the check to clear before
shipping. Is that a fair deal?

Francis WB5LWWP

--- Jeff KP3FT <kp3ft@...> wrote:

> Hi Francis,
> Tnx for the email. That's even better than I
> expected... How much for the TR-3?
> 73
> Jeff KP3FT
>
> F Broussard <d104_1@...> wrote:
> Hi Jeff,
> I have a TR-3 available for parts or repair. I
> believe
> the crystal filter is bad. I can tune stations no
> matter what the position of the sideband switch.
> The
> finals are good, this would give you an extra set
> of
> finals. Two of the 12BA6 tubes did not light up. I
> tested with two from my spares and the receiver
> works.
> I will keep my 12BA6's, but you will get all the
> other
> tubes including a new driver I installed. The front
> panel is in excellent condition.
>
> Francis Broussard WB5LWP
>
> --- kp3ft <kp3ft@...> wrote:
>
> > Hi all,
> > Does anyone know of a parts source for the Drake
> > rigs? I need a
> > band-switch assembly for my TR-3. It's the
> entire

> > switch unit that
> > goes from the front all the way to the back of
> the
> > rig. The contact
> > are very bad in mine, and I doubt that cleaning
> > would have any effect.
> > Thanks and 73
> > Jeff KP3FT
> >
> >
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
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> Do You Yahoo!?
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> [Non-text portions of this message have been
> removed]
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Do You Yahoo!?
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http://mail.yahoo.com

181. Re: [DrakeRadio] TR-3 parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-12-31 18:29:18 UTC
From: Jeff KP3FT
Topic: 177 Message: 181

Hi Francis,
That sounds fine to me. It will be a couple weeks at least; we are waiting for a house-closing and are not sure how much money we will have left over.
It sounds like the parts rig will be my own, and yours will be the fixed one. It would be a major operation to swap the band switch assembly over to mine, and anyway, the VFO does not work on mine either. I can only RX when using the exernal VFO.
I will get back to you...
73!
Jeff KP3FT

F Broussard <d104_1@...> wrote: Hello Jeff,
How about $60.00 + shipping costs. I believe UPS Ground will be the least expensive shipping. I guess around $20-$25 for shipping, but I will not know for sure until it is packed and I have your address. To keep things simple, I will accept a check or money order for $80.00 for the TR-3 and shipping. If you send a check I will wait for the check to clear before shipping. Is that a fair deal?

Francis WB5LWWP

--- Jeff KP3FT <kp3ft@...> wrote:

> Hi Francis,
> Tnx for the email. That's even better than I
> expected... How much for the TR-3?
> 73
> Jeff KP3FT
>
> F Broussard <d104_1@...> wrote:
> Hi Jeff,
> I have a TR-3 available for parts or repair. I
> believe
> the crystal filter is bad. I can tune stations no
> matter what the position of the sideband switch.
> The
> finals are good, this would give you an extra set
> of
> finals. Two of the 12BA6 tubes did not light up. I
> tested with two from my spares and the receiver
> works.
> I will keep my 12BA6's, but you will get all the
> other
> tubes including a new driver I installed. The front
> panel is in excellent condition.

>
> Francis Broussard WB5LWP
>
> --- kp3ft <kp3ft@...> wrote:
>
> > Hi all,
> > Does anyone know of a parts source for the Drake
> > rigs? I need a
> > band-switch assembly for my TR-3. It's the
> entire
> > switch unit that
> > goes from the front all the way to the back of
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> >
> >
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> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
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> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
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> [Non-text portions of this message have been
> removed]
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Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

182. HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-01 21:22:27 UTC
From: Garey Barrell
Topic: 182 Message: 182

I need a little help. I'm working (still !) on the TR-4 Series CD, and there appears to be yet another version schematic or two, other than the eight I already have. All my usual sources have come up dry, including Drake, which had only TWO of the eight known versions.

The earliest TR-4 schematic I have is 256619500, which translates to 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be sometime in 1965, probably around s/n 15000. That is the one I am looking for.

The earliest TR-4C schematic I have is 3147435161, which translates to 3/14/74, s/n 35161 and up. The _First_ TR-4_C_ schematic would be sometime in 1972, probably around s/n 32000. That is the one I am looking for. It's possible that there are one or more additional versions between 32000 and 35160, but I'd be happy to find just the one around 32000!

SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would check the version number on the schematic, I would very much like to find one or both to include in the CD.

The first person who comes up with an original for loan or purchase of either or both of these "missing links" will be entitled to a free Drake Service Supplement CD.

Thanks for looking!

--
73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

183. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-01 23:45:08 UTC
From: Larry Taft
Topic: 182 Message: 183

I've got xxxx42500 with my TR-4CWrit. That has to be pretty close to
the end of the 4 stuff.

73, Larry K2LT
drakerepair.com

Garey Barrell wrote:
> I need a little help. I'm working (still !) on the TR-4 Series CD, and
> there appears to be yet another version schematic or two, other than the
> eight I already have. All my usual sources have come up dry, including
> Drake, which had only TWO of the eight known versions.
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> The earliest TR-4 schematic I have is 256619500, which translates to
> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
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> sometime in 1972, probably around s/n 32000. That is the one I am
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> versions between 32000 and 35160, but I'd be happy to find just the one
> around 32000!
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> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
> check the version number on the schematic, I would very much like to
> find one or both to include in the CD.
>
> The first person who comes up with an original for loan or purchase of
> either or both of these "missing links" will be entitled to a free Drake
> Service Supplement CD.
>
> Thanks for looking!
>
>

184. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 00:11:51 UTC
From: Garey Barrell
Topic: 182 Message: 184

Larry -

Yeah, that's the last one I know of.

Here's the chart (so far) that will go on the CD.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Larry Taft wrote:
> I've got xxxx42500 with my TR-4CWrit. That has to be pretty close to
> the end of the 4 stuff.
>
> 73, Larry K2LT
> drakerepair.com
>
> Garey Barrell wrote:
>
>> I need a little help. I'm working (still !) on the TR-4 Series CD, and
>> there appears to be yet another version schematic or two, other than the
>> eight I already have. All my usual sources have come up dry, including
>> Drake, which had only TWO of the eight known versions.
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>>
>> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
>> check the version number on the schematic, I would very much like to
>> find one or both to include in the CD.
>>
>> The first person who comes up with an original for loan or purchase of
>> either or both of these "missing links" will be entitled to a free Drake
>> Service Supplement CD.
>>

>> Thanks for looking!
>>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

185. RE: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 04:53:31 UTC
From: Walter Milton
Topic: 182 Message: 185

All,

I have XXXX44746 with my TR4CW/Rit and the manual has December 1976 stamped on just one page. I must be near the very end

Walt.
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Larry Taft
Sent: Monday, January 01, 2007 6:45 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] HELP!

I've got xxxx42500 with my TR-4CWrit. That has to be pretty close to the end of the 4 stuff.

73, Larry K2LT
drakerepair.com

Garey Barrell wrote:
> I need a little help. I'm working (still !) on the TR-4 Series CD, and
> there appears to be yet another version schematic or two, other than the
> eight I already have. All my usual sources have come up dry, including
> Drake, which had only TWO of the eight known versions.
>
> The earliest TR-4 schematic I have is 256619500, which translates to
> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
> sometime in 1965, probably around s/n 15000. That is the one I am
> looking for.
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> The earliest TR-4C schematic I have is 3147435161, which translates to
> 3/14/74, s/n 35161 and up. The _First_ TR-4_C_ schematic would be
> sometime in 1972, probably around s/n 32000. That is the one I am
> looking for. It's possible that there are one or more additional
> versions between 32000 and 35160, but I'd be happy to find just the one
> around 32000!
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> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
> check the version number on the schematic, I would very much like to
> find one or both to include in the CD.
>
> The first person who comes up with an original for loan or purchase of
> either or both of these "missing links" will be entitled to a free Drake

> Service Supplement CD.
>
> Thanks for looking!
>
>

[Non-text portions of this message have been removed]

186. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 05:24:17 UTC
From: John Silberman
Topic: 182 Message: 186

Garey,

I have an original TR-4 manual. Same number as yours 256619500

I have an original TR-4Cw manual, the schematic says TR-4C and is
number 11017642500

I have an original TR-3 manual, number 6186410000

Any of this help?

John KB4CRT

On Jan 1, 2007, at 4:22 PM, Garey Barrell wrote:

> I need a little help. I'm working (still !) on the TR-4 Series CD, and
> there appears to be yet another version schematic or two, other than
> the
> eight I already have. All my usual sources have come up dry, including
> Drake, which had only TWO of the eight known versions.
>
> The earliest TR-4 schematic I have is 256619500, which translates to
> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
> sometime in 1965, probably around s/n 15000. That is the one I am
> looking for.
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> The earliest TR-4C schematic I have is 3147435161, which translates to
> 3/14/74, s/n 35161 and up. The _First_ TR-4_C_ schematic would be
> sometime in 1972, probably around s/n 32000. That is the one I am
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> versions between 32000 and 35160, but I'd be happy to find just the
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> around 32000!
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> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
> check the version number on the schematic, I would very much like to
> find one or both to include in the CD.
>
> The first person who comes up with an original for loan or purchase of
> either or both of these "missing links" will be entitled to a free
> Drake
> Service Supplement CD.
>
> Thanks for looking!
>
> --
> 73, Garey - K4OAH

> Atlanta

[Non-text portions of this message have been removed]

187. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 15:13:03 UTC
From: K5VSE
Topic: 182 Message: 187

Hey Larry,

I have my Drake "C" line as you know. Well, it started giving me a little trouble with receive, and I looked at my manual and decided that possibly the RF amp tube might be going bad on me. I ordered a few tubes for the rig according to the manual. When I took it apart, it had different tubes than what the book called for. (I got the manual when I bought the Drake rigs.) My manual says there were at least three 6EJ7 tubes in it. Mine does not have any at all, but in their place it uses 6HS6, 6BE6, and 6BA6 tubes. My serial number is 16923! I have to assume that is an earlier version, and the changes were made during later production runs. Can you give me any idea as to how to go about finding the correct manual? I might get hold of John Kriner, Bill Frost, or possibly Gary over in Georgia to see what they might suggest or have available.

Thanks buddy,

73,
Mena Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

188. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 15:58:15 UTC
From: Larry Taft
Topic: 182 Message: 188

The best source for info is Garey's CD on the C Twins. I have one and
it is the best way to find your way around the Twins. Yours is an early
one with the 6HS6's. Have a good grip on your wallet, those 6HS6 tubes
are getting scarce and $ going up.

http://www.k4oah.com/

73, Larry K2LT

K5VSE wrote:
> Hey Larry,
>
> I have my Drake "C" line as you know. Well, it started giving me a little
> trouble with receive, and I looked at my manual and decided that possibly
> the RF amp tube might be going bad on me. I ordered a few tubes for the rig
> according to the manual. When I took it apart, it had different tubes than
> what the book called for. (I got the manual when I bought the Drake rigs.)
> My manual says there were at least three 6EJ7 tubes in it. Mine does not
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> serial number is 16923! I have to assume that is an earlier version, and the
> changes were made during later production runs. Can you give me any idea as
> to how to go about finding the correct manual? I might get hold of John
> Kriner, Bill Frost, or possibly Gary over in Georgia to see what they might
> suggest or have available.
>
> Thanks buddy,
>
> 73,
> Mena Mike/K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2006
> "In God We Trust"
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189. TR4CW/Rit WILL NOT TRANSMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 16:56:25 UTC
From: Walter Milton
Topic: 189 Message: 189

Happy New Year All!!

With today off I though that I would put the TR4CW/Rit inline and have some fun on the lower bands. So after setting up and let the rig heat up for 15 minuets I switched in the dummy load to tune up. I have side tone but no amp reading. On listening closely I could not hear the relay close. So off with the cover and I replaced the 6FQ7 with a NOS spare. After five minuets, keyed up and still no relay closure. Off comes the bottom cover. Checked diode D5, it checked good (but I replaced it later on). I could see nothing burn or smell any strange odors. So I started looking over the schematic:

1. Pin 1 - 47 VDC
2. R102 - 225 VDC
3. Cathode of D5, unkeyed -11 VDC, keyed +42 VDC; anode -13 VDC (keyed or unkeyed)

The voltage on D5 (keyed) does change with the VOX pot. Here is the strange part, resistor, R102 100K, the old one measured 92.5K after lifting one leg. Replaced it with a new one same value and wattage (97.8K). On both I have 227 VDC on top and 57 VDC, unkeyed 77 VDC keyed. Is this what I should see??

I also changed V17 6AQ5, this made no change. What am I missing?

I am open to any and all suggestions.

Thanks,
Walt. , KA2NJF
Psalm 1
A child of the Living God

[Non-text portions of this message have been removed]

190. FW: TR4CW/Rit WILL NOT TRANSMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-02 18:43:10 UTC
From: Walter Milton
Topic: 190 Message: 190

All,

Success, I pulled the relay and checked its' coil, checked OK. After replacing the coil I turned the TR4CW/Rit back on and after five minuets switched to CW and the unit keyed. I do not know what if any thing I did but it works.

Thanks,
Walt. , KA2NJF
Psalm 1
A child of the Living God

> _____
> From: Walter Milton [mailto:wmilton@...]
> Sent: Tuesday, January 02, 2007 11:56 AM
> To: 'Drake Radio'
> Subject: TR4CW/Rit WILL NOT TRANSMIT
>
> Happy New Year All!!
>
> With today off I though that I would put the TR4CW/Rit inline and have
> some fun on the lower bands. So after setting up and let the rig heat up
> for 15 minuets I switched in the dummy load to tune up. I have side tone
> but no amp reading. On listening closely I could not hear the relay
> close. So off with the cover and I replaced the 6FQ7 with a NOS spare.
> After five minuets, keyed up and still no relay closure. Off comes the
> bottom cover. Checked diode D5, it checked good (but I replaced it later
> on). I could see nothing burn or smell any strange odors. So I started
> looking over the schematic:
>
> 1. Pin 1 - 47 VDC
> 2. R102 - 225 VDC
> 3. Cathode of D5, unkeyed -11 VDC, keyed +42 VDC; anode -13 VDC (keyed
> or unkeyed)
>
> The voltage on D5 (keyed) does change with the VOX pot. Here is the
> strange part, resistor, R102 100K, the old one measured 92.5K after
> lifting one leg. Replaced it with a new one same value and wattage
> (97.8K). On both I have 227 VDC on top and 57 VDC, unkeyed 77 VDC keyed.
> Is this what I should see??
>
> I also changed V17 6AQ5, this made no change. What am I missing?
>
> I am open to any and all suggestions.
>
> Thanks,

> Walt. , KA2NJF
> Psalm 1
> A child of the Living God
>
>

[Non-text portions of this message have been removed]

191. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 04:28:04 UTC
From: K5VSE
Topic: 182 Message: 191

Thanks Larry,
I might go ahead and buy the CD. I still want to find an original manual though, because it will match all my Drake stuff correctly.

73,
Mena Mike

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
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APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

192. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 04:59:30 UTC
From: Larry Taft
Topic: 182 Message: 192

Yeah, you do need an original manual just for having it. The real value in Garey's CD is the location of every part is shown and saves hours of tracing time. For you slowpokes living in the great frozen north it could be weeks.

73 Larry K2LT

K5VSE wrote:
> Thanks Larry,
> I might go ahead and buy the CD. I still want to find an original manual
> though, because it will match all my Drake stuff correctly.
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> 73,
> Mena Mike
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
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> WEB Site: http://members.tripod.com/~sjsharks/index.html
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193. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 05:39:30 UTC
From: K5VSE
Topic: 182 Message: 193

Where do you come up with the great frozen north? I'm only in Arkansas, and it's 48 right now. But, we were all white this morning, because it got down to 2? something last night.

I'll keep looking for the right manual, and sooner or later it will appear.

See ya on 22
Mena Mike

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

194. Re: HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 20:24:09 UTC
From: cdsol111
Topic: 182 Message: 194

I might have it(?). My TR4 Ser # is 26729. My copy of manual (don't know whether originally for my specific TR4) has schematic with numbers: 156726000. Could that be it? By the way, the 2-B still working like gangbusters - thanks)

'73/Happy New Year.

- Carl, W5SU
Dallas TX

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> I need a little help. I'm working (still !) on the TR-4 Series CD, and
> there appears to be yet another version schematic or two, other than the
> eight I already have. All my usual sources have come up dry, including
> Drake, which had only TWO of the eight known versions.
>
> The earliest TR-4 schematic I have is 256619500, which translates to
> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
> sometime in 1965, probably around s/n 15000. That is the one I am
> looking for.
>
> The earliest TR-4C schematic I have is 3147435161, which translates to
> 3/14/74, s/n 35161 and up. The _First_ TR-4_C_ schematic would be
> sometime in 1972, probably around s/n 32000. That is the one I am
> looking for. It's possible that there are one or more additional
> versions between 32000 and 35160, but I'd be happy to find just the one
> around 32000!
>
> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
> check the version number on the schematic, I would very much like to
> find one or both to include in the CD.
>
> The first person who comes up with an original for loan or purchase of
> either or both of these "missing links" will be entitled to a free Drake
> Service Supplement CD.
>
> Thanks for looking!
>
> --
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>

195. RE: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 22:06:14 UTC
From: Walter Milton
Topic: 182 Message: 195

Speaking of manuals, Larry or anyone where can I find a copy of a TR4CWR/it manual. On close inspection the manual I have is for the TR4C.

Thanks,

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Larry Taft
Sent: Wednesday, January 03, 2007 12:00 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] HELP!

Yeah, you do need an original manual just for having it. The real value in Garey's CD is the location of every part is shown and saves hours of tracing time. For you slowpokes living in the great frozen north it could be weeks.

73 Larry K2LT

K5VSE wrote:
> Thanks Larry,
> I might go ahead and buy the CD. I still want to find an original manual
> though, because it will match all my Drake stuff correctly.
>
> 73,
> Mena Mike
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.
<http://members.tripod.com/~sjsharks/index.html>
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196. RE: [DrakeRadio] Re: HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-03 23:21:48 UTC
From: Walter Milton
Topic: 182 Message: 196

Carl,

Where on your schematic did you find that number. I have looked all over my manual and as of now have not found any think like that.

Thank,
Walt., KA2NJF
Psalm 1
A child of the Living God

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of cdsol111
Sent: Wednesday, January 03, 2007 3:24 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: HELP!

I might have it(?). My TR4 Ser # is 26729. My copy of manual (don't know whether originally for my specific TR4) has schematic with numbers: 156726000. Could that be it? By the way, the 2-B still working like gangbusters - thanks)

'73/Happy New Year.

- Carl, W5SU
Dallas TX

--- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com, Garey Barrell <k4oah@...> wrote:
>
> I need a little help. I'm working (still !) on the TR-4 Series CD, and
> there appears to be yet another version schematic or two, other than the
> eight I already have. All my usual sources have come up dry, including
> Drake, which had only TWO of the eight known versions.
>
> The earliest TR-4 schematic I have is 256619500, which translates to
> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
> sometime in 1965, probably around s/n 15000. That is the one I am
> looking for.
>
> The earliest TR-4C schematic I have is 3147435161, which translates to
> 3/14/74, s/n 35161 and up. The _First_ TR-4_C_ schematic would be
> sometime in 1972, probably around s/n 32000. That is the one I am
> looking for. It's possible that there are one or more additional
> versions between 32000 and 35160, but I'd be happy to find just the one
> around 32000!

>
> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
> check the version number on the schematic, I would very much like to
> find one or both to include in the CD.
>
> The first person who comes up with an original for loan or purchase of
> either or both of these "missing links" will be entitled to a free Drake
> Service Supplement CD.
>
> Thanks for looking!
>
> --
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>

[Non-text portions of this message have been removed]

197. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-04 03:00:43 UTC
From: Garey Barrell
Topic: 182 Message: 197

Walt -

There is no manual for the TR-4Cw/RIT. The manual you want will have
schematic 11017642500 and be for the TR-4Cw. There is a two sided sheet
covering the RIT board which is the only difference between the two.
The schematic will be on the CD (eventually) but I'll send you the scan
for the RIT sheet. I don't think the list allows attachments.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Walter Milton wrote:
> Speaking of manuals, Larry or anyone where can I find a copy of a TR4CWR/it
> manual. On close inspection the manual I have is for the TR4C.
>
> Thanks,
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Larry Taft
> Sent: Wednesday, January 03, 2007 12:00 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] HELP!
>
>
>
> Yeah, you do need an original manual just for having it. The real value
> in Garey's CD is the location of every part is shown and saves hours of
> tracing time. For you slowpokes living in the great frozen north it
> could be weeks.
>
> 73 Larry K2LT
>
> K5VSE wrote:
>
>> Thanks Larry,

>> I might go ahead and buy the CD. I still want to find an original manual
>> though, because it will match all my Drake stuff correctly.
>>
>> 73,
>> Mena Mike
>>
>>
>> Formerly WB6VSE, Senior Tech. Amateur Division
>> SBE/Linear Systems, Watsonville, CA
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>> WEB Site: http://members.
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> tripod.com/~sjsharks/index.html
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>> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
>> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
>> APA 220, USS Okanogan, LSD31, USS Point Defiance
>> All email scanned with Norton 2006
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198. Re: [DrakeRadio] Re: HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-04 02:55:49 UTC
From: Garey Barrell
Topic: 182 Message: 198

Carl -

No, that's one I have. I'm looking for one that _should_ be in 1965,
around s/n 15000. That IS the correct schematic and manual for your
unit though!

Glad the 2-B is still alive and well.

Thanks for checking!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

cdsol111 wrote:
> I might have it(?). My TR4 Ser # is 26729. My copy of manual (don't
> know whether originally for my specific TR4) has schematic with
> numbers: 156726000. Could that be it? By the way, the 2-B still
> working like gangbusters - thanks)
>
> '73/Happy New Year.
>
> - Carl, W5SU
> Dallas TX
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> I need a little help. I'm working (still !) on the TR-4 Series CD, and
>> there appears to be yet another version schematic or two, other than the
>> eight I already have. All my usual sources have come up dry, including
>> Drake, which had only TWO of the eight known versions.
>>
>> The earliest TR-4 schematic I have is 256619500, which translates to
>> 2/5/66, s/n 19500 and up. The _First_ TR-4 schematic would be
>> sometime in 1965, probably around s/n 15000. That is the one I am
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>>

>> SO ! If anyone with an _original_ Drake TR-4 or TR-4C manual would
>> check the version number on the schematic, I would very much like to
>> find one or both to include in the CD.
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>> The first person who comes up with an original for loan or purchase of
>> either or both of these "missing links" will be entitled to a free Drake
>> Service Supplement CD.
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>> Thanks for looking!
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>> 73, Garey - K4OAH
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>> <www.k4oah.com>
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199. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-04 03:34:36 UTC
From: Don
Topic: 182 Message: 199

Sorry, no attachments to help prevent spam, however, you may feel free to upload to the files section.
Don
Ke7ffm

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, January 03, 2007 8:00 PM
Subject: Re: [DrakeRadio] HELP!

Walt -

There is no manual for the TR-4Cw/RIT. The manual you want will have schematic 11017642500 and be for the TR-4Cw. There is a two sided sheet covering the RIT board which is the only difference between the two. The schematic will be on the CD (eventually) but I'll send you the scan for the RIT sheet. I don't think the list allows attachments.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Walter Milton wrote:
> Speaking of manuals, Larry or anyone where can I find a copy of a TR4CWR/it
> manual. On close inspection the manual I have is for the TR4C.
>
> Thanks,
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
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> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Larry Taft
> Sent: Wednesday, January 03, 2007 12:00 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] HELP!
>
>

>
> Yeah, you do need an original manual just for having it. The real value
> in Garey's CD is the location of every part is shown and saves hours of
> tracing time. For you slowpokes living in the great frozen north it
> could be weeks.
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> 73 Larry K2LT
>
> K5VSE wrote:
>
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>> I might go ahead and buy the CD. I still want to find an original manual
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200. RE: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-05 00:08:54 UTC
From: Walter Milton
Topic: 182 Message: 200

Thanks, there is no need to at this time.

Thank Garey, I found the number!! Now that I know where it is I do not know how many times I may have looked at it and did not know what it was. My serial number is in deed 11017642500.

Garey thanks for the two files they were not needed. I have copies of them in the techn manual.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don
Sent: Wednesday, January 03, 2007 10:35 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] HELP!

Sorry, no attachments to help prevent spam, however, you may feel free to upload to the files section.
Don
Ke7ffm

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Sent: Wednesday, January 03, 2007 8:00 PM
Subject: Re: [DrakeRadio] HELP!

Walt -

There is no manual for the TR-4Cw/RIT. The manual you want will have schematic 11017642500 and be for the TR-4Cw. There is a two sided sheet covering the RIT board which is the only difference between the two. The schematic will be on the CD (eventually) but I'll send you the scan for the RIT sheet. I don't think the list allows attachments.

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Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Walter Milton wrote:
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TR4CWR/it
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> Psalm 1
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> _____
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> From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
> Behalf Of Larry Taft
> Sent: Wednesday, January 03, 2007 12:00 AM
> To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> Subject: Re: [DrakeRadio] HELP!
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>> Formerly WB6VSE, Senior Tech. Amateur Division
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>> WEB Site: http://members.
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tripod.com/~sjsharks/index.html>
> tripod.com/~sjsharks/index.html
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>> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
>> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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201. 2-AQ, 2-BQ and 2-CQ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-05 01:32:56 UTC
From: Dennis Todaro
Topic: 201 Message: 201

I have a Drake 2-A, with 2-AQ, Drake 2-B, with 2-BQ and Drake 2-C, with 2-CQ. I find that the 2-BQ does provide some peaking and nulling as I tune and adjust it. The 2-AQ is not quite so sharp but still quite helpful in tuning and selecting signals. The 2-CQ really does nothing more than a placebo effect, making me think something is happening by the power of suggestion.

Is this stuff showing its age? Am I showing my age? Am I expecting too much?

Is there something I can do (e.g. changing the tube) to improve the performance of these dandy accessories. I like the speaker consoles regardless and the receivers all perform wonderfully well in tandem with my vintage transmitters. It would be nice if turning on the "Q" was like a secret weapon to peak up the desired signal and vanquish the QRM.

Any comments? Suggestions?

Thanks and 73

Dennis, WQ7O

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

202. Re: [DrakeRadio] 2-AQ, 2-BQ and 2-CQ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-05 01:54:01 UTC
From: Garey Barrell
Topic: 201 Message: 202

Dennis -

All three units are identical and fully interchangeable. I suspect you have some weak tubes, or someone has been "fixing" one or more item in your collection. You could try mixing and matching for a start to see if the problem is within the Q-Multipliers or the receivers, i.e., plug your 2-AQ into the 2-B and see if it works as well as the 2-BQ and vice versa. Then plug the 2-CQ into the 2-B and see what happens. It's quite possible that a good alignment per the manual would make them all work as well as the 2-BQ.

The Q-Multiplier certainly WAS a "secret weapon" in the 50's and early 60's for receivers with 455 kHz IF's. Properly adjusted, they could make even the widest receiver seem "single-signal". You might not have much in the way of skirt selectivity, but quite often the 10-15 dB peak provided by the Q-Mult would enable you to pick one signal out of the hundreds crammed into the old Novice band!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dennis Todaro wrote:
> I have a Drake 2-A, with 2-AQ, Drake 2-B, with 2-BQ and Drake 2-C, with 2-CQ. I find that the 2-BQ does provide some peaking and nulling as I tune and adjust it. The 2-AQ is not quite so sharp but still quite helpful in tuning and selecting signals. The 2-CQ really does nothing more than a placebo effect, making me think something is happening by the power of suggestion.
>
> Is this stuff showing its age? Am I showing my age? Am I expecting too much?
>
> Is there something I can do (e.g. changing the tube) to improve the performance of these dandy accessories. I like the speaker consoles regardless and the receivers all perform wonderfully well in tandem with my vintage transmitters. It would be nice if turning on the "Q" was like a secret weapon to peak up the desired signal and vanquish the QRM.
>
> Any comments? Suggestions?
>
> Thanks and 73
>
> Dennis, WQ7O
>
>
>

> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
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> [Non-text portions of this message have been removed]
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203. wafer repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-11 19:30:02 UTC
From: jeu3pneu
Topic: 203 Message: 203

Hello to all

i broke a wafer in my RV4C and i wonder what is the best glue to
fix it ?
any help
Tnx
Martin

204. Fw: [drakelist] Specs for TR7 mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-13 00:56:42 UTC
From: Don
Topic: 204 Message: 204

> ----------
> Ron: First of all, I'd like to thank Jim for providing such thorough
> information to the group concerning my original article "Improving the Drake
> TR-7". It's good to know that there's still interest in these modifications.
>
> At the time I wrote the article 15 years ago, the M/A Com MA4P4002D PIN
> diode was expensive but obtainable. It was also as perfect a component as
> you could find for this particular application. But as anyone who has looked
> for one of these diodes knows, they are completely unobtainable. I've toyed
> w! ith a f ew potential substitutes, but I'm not happy with what I've tried so
> far. Consequently, I'm considering a redesign of the QSK card's RF switching
> portion to utilize currently-available components. If there's enough
> interest in a redesigned QSK card for the TR-7, I may be able to move this
> up my priority list.
>
> Also, if anyone on this list has questions regarding the original four
> modifications described in my Summer, 1992, Communications Quarterly
> article, please feel free to contact me directly: N7NB "at" att.net.
>
> Scott Prather
> N7NB
>
>
>
> -----Original Message-----
> From: owner-drakelist@...
> [mailto:owner-drakelist@...] On Behalf Of Jim Pruitt
> Sent: Wednesday, January 10, 2007 9:01 PM
> To: DrakeList
> Cc: Ron Wagner
> Subject: Re: [drakelist] Specs for TR7 mod
>
>! ;
& gt; "Jim Pruitt" made an utterance to the drakelist gang
> ----------
> Hello Ron.
>
> Here is a link to Scott's comments about the article:
> http://www.dproducts.be/Drake_Museum/tr-7mods.htm
>
> I will paste them below then comment some more after the Prather comments
> that are copied from JM Cherry's great Drake web page:
>
> "Improving the Drake TR-7 by Scott D. Prather, N7NB (ex-KB9Y)
> Reversible Modifications Enhance Performance

> Please Note: The mailing address included on the first page of this article
> is no longer current. Please address all correspondence to Scott Prather at:
> sdprat@....
> Abstract.
> The Drake TR-7 is an outstanding all-band, solid-state transceiver that was
> a trendsetter when it was unveiled to the amateur radio market in 1978. > However, the
TR-7 was not without its problems, some of which included:
> Poor receive performance below 1.5 MHz
> No full break-in (QSK) CW operation
> Compromised signal/noise ratio when using narrow CW filters
> High cooling fan noise, and the stock fan operates only when the radio is
> powered from an AC source
>
> My article, which originally appeared in the Summer, 1992, issue of
> Communications Quarterly, addresses these four problems with modifications
> that require no drilled holes, making them 100% reversible.
> Notes
> Improving the TR-7 is reprinted here in its entirety, and it appears on the
> Web with the permission of Communications Quarterly. I scanned the original
> 19-page paper and converted it into an Adobe R PDF file. The size of this
> file is approximately 1.9 MB, so it will take a while to download if you are
> using dial-up Internet access. For! exampl e, at 28.8 kbps it took me about 14
> minutes to download the file.
> Component Availability
> At the time that this article was written, all of the components required
> for these modifications were readily available. However, there are a few
> components that are currently difficult to obtain. The most difficult
> component to locate is D2005 (MA4P4002D), a stud-mount, high-power PIN diode
> manufactured by M/A COM. It's my understanding that this diode is no longer
> available from the manufacturer, and I've been unable to locate a diode that
> I'm convinced will function as a substitute. The MA4P4002D has the following
> specifications at 25 degrees Celsius:
>
> Series Resistance @ 100 mA forward current: 0.5 ohms
> Carrier Lifetime: 6 microseconds @ 100 mA forward current
> Voltage Rating: 200 Volts
> Power Dissipation: 15 watts
> Initially, my decision to use! M/A CO M's stud-mounted PIN diode was driven by
> the requirement to support 100% duty cycle operation, such as RTTY or SSTV.
> However, for low duty-cycle modes such as SSB and CW, I have successfully
> used the MA4P4002B axial-lead PIN diode with a small heat sink on the diode
> body. Unfortunately, this diode is not readily available either. Generally,
> any axial-lead PIN diode capable of dissipating about 5 watts and meeting
> the series resistance, voltage rating, and carrier lifetime specifications
> listed above should function in a low duty cycle application at the 150W
> power level of the TR-7. I will continue my search for a substitute, and
> I'll post my findings here. If anyone has a suggestion for a substitute,
> please send the information to me at the e-mail address listed above.
> The second component that's difficult to obtain is reed-relay K2001,
> manufactured by Magnecraft. I'v! e been unable to locate a source for this

> part, however, it appears that an EAC P/N 20-1121-30 reed relay should work
> in its place. The primary difference between the original Magnecraft part
> and the EAC substitute is the lead pinout. The EAC relay has short in-line
> pins, while the Magnecraft part had longer leads which would permit a
> "triangular" PC pad configuration at each end. Also, the NC contact on the
> EAC part is on the opposite side of the relay from the Magnecraft part.
> However, minor redrilling of the PC board along with a jumper to the NC
> contact will solve these minor compatibility problems.
> Miscellaneous:
> A minor change in operation is required if a TR-7 is modified with my QSK
> card and subsequently used to transceive with a Drake R-7 receiver using the
> Drake 1548 cable. Because the QSK card RX Mute line only functions when the
> TR-7 is turned on, the R-7! will b e muted if the "Mute" button is depressed
> and the TR-7 is turned off. To use the R-7 when the TR-7 is off, just
> release the R-7 "Mute" button.
>
> Errata:
> Although I carefully reviewed this article prior to its publication, in a
> project of this scope some errors are bound to occur. The known errors are:
>
> Page 22, Figure 3: Two minor labeling errors exist in this schematic. There
> are two capacitors labeled C2002, one connected to point "C" and the other
> to the drain of Q2002. The capacitor connected to point C should be C2006.
> Also, there are two capacitors labeled C2005, one connected to point "I" and
> one from L2002 to ground. The capacitor from L2002 to ground should be
> C2007.
> Page 24, Figure 6: The RX coax ground connection point (K) is shown
> incorrectly. This ground should be tied to the RF ground point that comes up
> to the NO contact ! of rela y K2001. This point is just to the left and below
> the ground point (K) shown in Figure 6. Photo E on page 29 details the
> correct location for (K).
> Page 32, top left-hand column: The wires connected to points F and G on the
> QSK card were reversed. The list of wire colors should read as follows:
> 4) Connect the tan wire to point D
> 5) Connect the pink wire to point E
> 6) Connect the red wire to point F
> 7) Connect the blue wire to point G
> Page 37, Fan Control Parts List: Although it's not specifically stated,
> temperature-sensitive zener diode D4001 is in a type TO-92 case. Also, C4001
> should be 1.0 m F, 35 volts, not the 25 volt capacitor listed.
> If anyone has questions concerning the modifications in this article or
> availability of components, please contact me via e-mail at
> sdprat@....
> 73
> Scott Prather
> N7NB"
>! ;
& gt; end of http://www.dproducts.be/Drake_Museum/tr-7mods.htm direct quote.
>
>

>
> Mr. Cherry also has the PDF of the Communications Quarterly article as a
> link just below the comments above but that PDF does not have the resolution
> on the pictures like the Comm Quarterly did and the reprint that John
> Loughmiller did in his book "R.L. Drake A Family Affair" but Scott Prather
> redrew the schematics in the book to make them easier to follow.
>
> I was unable to find the Magnecraft W104MIP42 for a reasonable price (as you
> also discovered). A friend (who is or was on this list at one time)
> redesigned the pc board for me so it is laid out for the EAC part that Scott
> recommends. It USED TO BE SOLD BY DIGIKEY and was used in some other very
> recent QSK articles (a VE ham had an article in QEX in spring of 2006 that
> used them) but Digikey no longer stocks it since! EAC we nt to a rediculous
> minimum order for Digikey. I talked to EAC and they said they would sell
> direct to me but they had a $500 minimum (I think). The relay was about $8
> from Digikey when they had them. Digikey lists the relay as "Call" so if a
> few of us call maybe they would stock a few more.
>
> Hold the phone! I just checked Digikey's web site and they have 80 of the
> EAC relays in stock right now at $5.75 each and stock number Z645-ND so they
> must have mananged to convince EAC to change their minimum but they do have
> them and cheaper than the ones that I got.
>
> As for the MA/Com Diodes (MA4P4002D) those are unobtainable! You can still
> get the MAP4002B from Richardson Electronics (they sell mainly to 2 way
> companies I think) and they were around $8 each when I bought my 4. They
> are in the DO style case like a 1N4007 diode (I forget what the DO# is) and
&! gt; so it will not disipate the power like the MA4P4002D but it is the same
> specs. I had asked Scott about using a 1N4001 as was suggested on another
> list I am on but Scott did not seem to think it would work very well so the
> MAP4002B is your best bet and is ok unless you are going to run RTTY or a
> similar mode that requires 100% duty cycle.
>
> Anyway I do have a pc board layout for the QSK board using the EAC relay
> footprint. You can also get a board set from Fred at Far Circuits. If I
> remember right the EAC relay had one contact swapped with the W104MIP42 so
> you could put it on the FAR boards and then redo those 2 contacts. The EAC
> relay pin out is in sort of a triangle (kind of like many pc board mounted
> pots) on each end so 3 contacts on each end but the center contact is moved
> in some but the outer contacts are in line.
>
> You did not mention the front end bo! ard but I had a little trouble finding
> the RSD-12V Aromat relays for that. Rich Measures AG6K - telephone, [805]
> 386-3734 at http://www.somis.org/ had them and are part of one of his
> amplifier mod kits. I think they were about $12 each. I also found a few
> on ebay later. I kept getting caught because the specs even on the RSD-12V
> say it is spst but it is REALLY SPDT. Even the legend on the relay does not
> show it but if you check the contacts you will find that it is indeed spdt!
> The RS-12V is spst but the RSD-12V is spdt.
>

> I hope that you find the above information helpful. Most of it comes from
> Scott Prather himself and posted on JM Cherry's web site at
> http://www.dproducts.be/Drake_Museum/tr-7mods.htm and some of the parts info
> was from my experience in trying to find the parts. I have done searches
> for some of the info before but usually my comments on this Drakelis! t in th e
> past are what I find!
>
> Good luck and if I can help with more info or the Prather QSK pc board
> layout for the EAC style relay please let me know.
>
> Thank you.
>
> Jim Pruitt
>
>
>

[Non-text portions of this message have been removed]

205. Fw: [drakelist] FS: Excellent TR-7A with PS7 power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-13 01:03:44 UTC
From: Don
Topic: 205 Message: 205

----- Original Message -----
From: K8POU@...
To: drakelist@...
Cc: K8DJ@...
Sent: Friday, January 12, 2007 2:19 PM
Subject: [drakelist] FS: Excellent TR-7A with PS7 power supply

List --
I have for sale an excellent Drake TR-7A, SN 115XX with the PS-7 power supply.
This unit has completely been serviced by a Drake technician. Reason for selling:
Downsizing.
$700 + shipping.
73, Don, K8DJ (ex-K8POU, licensed since 1959)

[Non-text portions of this message have been removed]

206. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-14 10:39:18 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 206

All group memebers are welcome to post here on this message board so for those that have questions please don't be shy and for those that have answers please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

207. WTB/TRADE - NRD-515, NRD-525, NRD-535

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-14 12:43:39 UTC
From: ae2jl
Topic: 207 Message: 207

I am interested in acquiring a JRC NRD-515, NRD-525, or JRC- NRD-535 receiver. I can pay cash or can trade w/cash a Drake 2B/2BQ with xtal calibrator in very nice cosmetic/ operating condx and/or a Drake SPR-4 that has recently been serviced and is in excellent operating condx and nice cosmetic condition. Tnx for reading. 73, Joel AE2JL

208. WTB: JRC NRD 515 or NRD 535

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-15 22:13:53 UTC
From: ae2jl
Topic: 208 Message: 208

Hello,

Does anybody have one available? Any ideas on where I could find one.
Tnx, 73 Joel

209. R4B Halp?...low sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 15:12:33 UTC
From: steve_n0tu
Topic: 209 Message: 209

Just starting to restore a R4B. I need help with the following issues:

- Wicked AC hum on the audio. Assume I can just replace C90A/B/C/D cap and it goes away?

- CAL signal is almost unaudioable, down in the mud? I remember on previous R4s I could use the CAL sig to peak the preselector and seeing S9+ from the CAL sig?

- Overall the sensitivity seems a little low? Audio seems a little distorted? AND mostly notibly the AVC action is not happening? Signals just jump out at you?

- PTO gear drive is little gritty in spots?

comments/suggestions appreciated! Tks Steve

210. Re: [DrakeRadio] R4B Halp?...low sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 15:28:36 UTC
From: Garey Barrell
Topic: 209 Message: 210

Steve -

Start by replacing C90. Also replace C91 and C192 while you're at it.

THEN evaluate the receiver.

The PTO front bearing should be washed out with solvent and regreased with Lubriplate or other white lithium grease. I'd also clean the lead screw and ONE drop of light oil. Clean the rider bar (chrome bar at the top that the follower rides on) and do NOT lubricate. These steps are easiest to do with the PTO out of the receiver, but can be done in situ. Either remove or protect the dial disk during the cleaning process, it's essentially not replaceable.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

steve_n0tu wrote:
> Just starting to restore a R4B. I need help with the following
> issues:
>
> - Wicked AC hum on the audio. Assume I can just replace C90A/B/C/D cap
> and it goes away?
>
> - CAL signal is almost unaudioable, down in the mud? I remember on
> previous R4s I could use the CAL sig to peak the preselector and
> seeing S9+ from the CAL sig?
>
> - Overall the sensitivity seems a little low? Audio seems a little
> distorted? AND mostly notibly the AVC action is not happening? Signals
> just jump out at you?
>
> - PTO gear drive is little gritty in spots?
>
> comments/suggestions appreciated! Tks Steve
>
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> Yahoo! Groups Links
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211. Re: [DrakeRadio] R4B Halp?...low sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 15:32:18 UTC
From: Larry Taft
Topic: 209 Message: 211

Get the power supply caps changed first including the - supply. Then check voltages. Then tubes. PTO take apart and clean. No oil on the nylon gears. NONE, NADA ! Only a tiny drop on the threaded shaft and bearing.

Sounds like a nice winter project.

73, Larry K2LT
drakerepair.com 800-687-9161

steve_n0tu wrote:
> Just starting to restore a R4B. I need help with the following
> issues:
>
> - Wicked AC hum on the audio. Assume I can just replace C90A/B/C/D cap
> and it goes away?
>
> - CAL signal is almost unaudioable, down in the mud? I remember on
> previous R4s I could use the CAL sig to peak the preselector and
> seeing S9+ from the CAL sig?
>
> - Overall the sensitivity seems a little low? Audio seems a little
> distorted? AND mostly notibly the AVC action is not happening? Signals
> just jump out at you?
>
> - PTO gear drive is little gritty in spots?
>
> comments/suggestions appreciated! Tks Steve
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> Yahoo! Groups Links
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212. Re: WTB: JRC NRD 515 or NRD 535

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 18:06:35 UTC
From: Peter J. Wolgamood
Topic: 208 Message: 212

--- In DrakeRadio@yahoogroups.com, "ae2jl" <jlevy01@...> wrote:
>
> Hello,
>
> Does anybody have one available? Any ideas on where I could find one.
> Tnx, 73 Joel
>_____ Did you try Ebay?
There is a real nice Drake R8B on there> Item #320072641140

[Non-text portions of this message have been removed]

213. RE: [DrakeRadio] Re: WTB: JRC NRD 515 or NRD 535

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 20:14:47 UTC
From: Joel Levy
Topic: 208 Message: 213

Tnx, I know ebay's prices are inflated but I'll take a look at the R8B. 73,
Joel
-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On
Behalf Of Peter J. Wolgamood
Sent: Wednesday, January 17, 2007 1:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: WTB: JRC NRD 515 or NRD 535

--- In DrakeRadio@yahoogroups.com, "ae2jl" <jlevy01@...> wrote:
>
> Hello,
>
> Does anybody have one available? Any ideas on where I could find one.
> Tnx, 73 Joel
>_____ Did you try Ebay?
There is a real nice Drake R8B on there> Item #320072641140

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

214. Microphone Recommendation for TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 21:11:03 UTC
From: Charlie Seymour NJ3A
Topic: 214 Message: 214

I just obtained a TR-4CW, cleaned it up, plugged it in and it seems to work fine. I've checked the tuning dial against my IC-756 ProII and made some minor adjustments and all is fine. It wasn't too difficult...I'm old enough to remember slide rules...and how to use them.

I unfortunately did not get a microphone with it...from the SK's family...so I'm only in receive mode.

This is my first real tube transceiver and I'd like to get some recommendations on a microphone...without breaking the bank...

I'll probably use this rig on the low bands, wire tuned with my AT4K. Since I don't have a mic. I can't tell the output, but from the condition and sound of the rig on receive, I expect it to be pretty good.

Charlie NJ3A

215. Re: [DrakeRadio] Microphone Recommendation for TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 21:38:07 UTC
From: K5VSE
Topic: 214 Message: 215

This is just my personal opinion, but I found the Shure 444D seems to provide the best audio for a minor hit to the pocket book. I use one on both my twins and the TR4-C with great audio reports. I have been told on occasion that I have the best sounding rig on the band.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

216. Re: [DrakeRadio] wafer repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-17 23:42:49 UTC
From: Larry Taft
Topic: 203 Message: 216

I have used: 5 Minute Epoxy System by ITW Performance Polymers in
Riviera Beach, FL.

This is a clear 2 part epoxy in the twin tubes with the dual pistons to
dispense the stuff. You have to make sure the parts are clean and free
of contact cleaner, etc. Clean with alcohol first. Just a small drop
on the phenolic and hold together for a moment until it starts to set.

73, Larry K2LT
drakerepair.com 800-687-9161

jeu3pneu wrote:
> Hello to all
>
> i broke a wafer in my RV4C and i wonder what is the best glue to
> fix it ?
> any help
> Tnx
> Martin
>
>
>
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> Yahoo! Groups Links
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217. Re: [DrakeRadio] Microphone Recommendation for TR-4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-18 01:24:41 UTC
From: Tim Kass
Topic: 214 Message: 217

I would recommend the Electrovoice 638 or 630 dynamic mic, good bass, natural sound and over all tone, more punch than the D104. I have also used the D104 with the ceramic cartridge but did the 47K resistor mod in the microphone head to the red wire to better round out the audio, less tinny...

73, Tim
K8WBL

K5VSE <k5vse@...> wrote:
This is just my personal opinion, but I found the Shure 444D seems to
provide the best audio for a minor hit to the pocket book. I use one on both
my twins and the TR4-C with great audio reports. I have been told on
occasion that I have the best sounding rig on the band.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

"No man's life, liberty, or property are safe while the legislature is in session." Mark Twain

---
Be a PS3 game guru.
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[Non-text portions of this message have been removed]

218. Re: [DrakeRadio] R4B Halp?...low sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-18 04:03:29 UTC
From: Dennis Todaro
Topic: 209 Message: 218

Before you do the big stuff, check the bandswitch wafers and make sure they are clean. My R-4C came back after just a little clean up.

Dennis, WQ7O

Larry Taft <ltaft@...> wrote:
Get the power supply caps changed first including the - supply. Then check voltages. Then tubes. PTO take apart and clean. No oil on the nylon gears. NONE, NADA ! Only a tiny drop on the threaded shaft and bearing.

Sounds like a nice winter project.

73, Larry K2LT
drakerepair.com 800-687-9161

steve_n0tu wrote:
> Just starting to restore a R4B. I need help with the following
> issues:
>
> - Wicked AC hum on the audio. Assume I can just replace C90A/B/C/D cap
> and it goes away?
>
> - CAL signal is almost unaudioable, down in the mud? I remember on
> previous R4s I could use the CAL sig to peak the preselector and
> seeing S9+ from the CAL sig?
>
> - Overall the sensitivity seems a little low? Audio seems a little
> distorted? AND mostly notibly the AVC action is not happening? Signals
> just jump out at you?
>
> - PTO gear drive is little gritty in spots?
>
> comments/suggestions appreciated! Tks Steve
>
>
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>
> Yahoo! Groups Links
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>

Looking for earth-friendly autos?
Browse Top Cars by "Green Rating" at Yahoo! Autos' Green Center.

[Non-text portions of this message have been removed]

219. Re: [DrakeRadio] wafer repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-18 15:11:05 UTC
From: Martin
Topic: 203 Message: 219

Tnx Larry for your advice.
Best 73!
Martin VE2EDK/VA2ZO

Larry Taft a ?crit :
> I have used: 5 Minute Epoxy System by ITW Performance Polymers in
> Riviera Beach, FL.
>
> This is a clear 2 part epoxy in the twin tubes with the dual pistons to
> dispense the stuff. You have to make sure the parts are clean and free
> of contact cleaner, etc. Clean with alcohol first. Just a small drop
> on the phenolic and hold together for a moment until it starts to set.
>
> 73, Larry K2LT
> drakerepair.com 800-687-9161
>
> jeu3pneu wrote:
>
>> Hello to all
>>
>> i broke a wafer in my RV4C and i wonder what is the best glue to
>> fix it ?
>> any help
>> Tnx
>> Martin
>>
>>
>>
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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220. WTB: DRAKE R 8A OR R 8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-19 20:40:42 UTC
From: ae2jl
Topic: 220 Message: 220

Hello, I am interested in acquiring one of the above. If you have one and are interested in selling same, please contact me. 73, Joel AE2JL

221. T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 10:33:45 UTC
From: jeu3pneu
Topic: 221 Message: 221

HI all;

I have a late serial T4XC that goes into transmit mode c/w sidetone as soon as the mode switch is placed in the CW position. AM & SSB positions are fine but on CW the rig keys up with or without a key in the key jack. There is no CW output until you close the key contacts.

Tube substitution of V-10 and the VOX preamp tube do not help.

All 5 diodes on the CW line and VOX circuit were replaced with new ones.

This is a 6FQ7 Vox tube version.

Anyone else solve a similar experience and can shorten my bench time?

Thanks in advance!

Martin
VE2EDK

222. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 14:00:01 UTC
From: Garey Barrell
Topic: 221 Message: 222

Martin -

Have you checked CR15? If OK, check C107 by paralleling it with a
similar cap.

The KEY jack is a "shorting" type, i.e., with no key plugged in the
transmitter is Keyed when in CW.

??

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> HI all;
>
>
>
>
> I have a late serial T4XC that goes into transmit mode c/w sidetone as
> soon as the mode switch is placed in the CW position. AM & SSB
> positions are fine but on CW the rig keys up with or without a key in
> the key jack. There is no CW output until you close the key contacts.
>
> Tube substitution of V-10 and the VOX preamp tube do not help.
>
>
> All 5 diodes on the CW line and VOX circuit were replaced with new ones.
>
> This is a 6FQ7 Vox tube version.
>
> Anyone else solve a similar experience and can shorten my bench time?
>
> Thanks in advance!
>
> Martin
> VE2EDK
>
>
>

223. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 14:34:27 UTC
From: Martin
Topic: 221 Message: 223

I will check
tnx Garey

Garey Barrell a ?crit :
>
> Martin -
>
> Have you checked CR15? If OK, check C107 by paralleling it with a
> similar cap.
>
> The KEY jack is a "shorting" type, i.e., with no key plugged in the
> transmitter is Keyed when in CW.
>
> ??
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
> > HI all;
> >
> >
> >
> >
> > I have a late serial T4XC that goes into transmit mode c/w sidetone as
> > soon as the mode switch is placed in the CW position. AM & SSB
> > positions are fine but on CW the rig keys up with or without a key in
> > the key jack. There is no CW output until you close the key contacts.
> >
> > Tube substitution of V-10 and the VOX preamp tube do not help.
> >
> >
> > All 5 diodes on the CW line and VOX circuit were replaced with new
> ones.
> >
> > This is a 6FQ7 Vox tube version.
> >
> > Anyone else solve a similar experience and can shorten my bench time?
> >
> > Thanks in advance!
> >
> > Martin

> > VE2EDK
> >
> >
> >
>
>

224. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 16:09:02 UTC
From: Martin
Topic: 221 Message: 224

I checked
CR15 OK
C107 OK
R 96 substitute for 960K
R102 substitue for 960K by previous owner
V10 resistance on tune mode is 1.2 meg NOT 2 Meg ?
all diode OK
any other idea ?
Tnx for help
Martin

Garey Barrell a ?crit :
>
> Martin -
>
> Have you checked CR15? If OK, check C107 by paralleling it with a
> similar cap.
>
> The KEY jack is a "shorting" type, i.e., with no key plugged in the
> transmitter is Keyed when in CW.
>
> ??
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
> > HI all;
> > >
> > >
> > >
> > >
> > > I have a late serial T4XC that goes into transmit mode c/w sidetone as
> > > soon as the mode switch is placed in the CW position. AM & SSB
> > > positions are fine but on CW the rig keys up with or without a key in
> > > the key jack. There is no CW output until you close the key contacts.
> > >
> > > Tube substitution of V-10 and the VOX preamp tube do not help.
> > >
> > >
> > > All 5 diodes on the CW line and VOX circuit were replaced with new
> ones.

> >
> > This is a 6FQ7 Vox tube version.
> >
> > Anyone else solve a similar experience and can shorten my bench time?
> >
> > Thanks in advance!
> >
> > Martin
> > VE2EDK
> >
> >
> >
>
>

225. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 16:32:34 UTC
From: Garey Barrell
Topic: 221 Message: 225

What is the setting for the CW DELAY pot? See if turning it either full
CCW or CW will cause the relay to drop out.

Check the voltage on Pin 7 of V10 with a high impedance (11 M) meter.

Garey - K4OAH

Martin wrote:
> I checked
> CR15 OK
> C107 OK
> R 96 substitute for 960K
> R102 substitue for 960K by previous owner
> V10 resistance on tune mode is 1.2 meg NOT 2 Meg ?
> all diode OK
> any other idea ?
> Tnx for help
> Martin
>
> Garey Barrell a ?crit :
>
>> Martin -
>>
>> Have you checked CR15? If OK, check C107 by paralleling it with a
>> similar cap.
>>
>> The KEY jack is a "shorting" type, i.e., with no key plugged in the
>> transmitter is Keyed when in CW.
>>
>> ??
>>
>> 73, Garey - K4OAH
>> Atlanta
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>
>> jeu3pneu wrote:
>>
>>> HI all;
>>>
>>>
>>>
>>>
>>> I have a late serial T4XC that goes into transmit mode c/w sidetone as
>>> soon as the mode switch is placed in the CW position. AM & SSB

>>> positions are fine but on CW the rig keys up with or without a key in
>>> the key jack. There is no CW output until you close the key contacts.
>>>
>>> Tube substitution of V-10 and the VOX preamp tube do not help.
>>>
>>>
>>> All 5 diodes on the CW line and VOX circuit were replaced with new
>>>
>> ones.
>>
>>> This is a 6FQ7 Vox tube version.
>>>
>>> Anyone else solve a similar experience and can shorten my bench time?
>>>
>>> Thanks in advance!
>>>
>>> Martin
>>> VE2EDK
>>>

226. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-23 19:17:42 UTC
From: Martin
Topic: 221 Message: 226

Hello Garey
at pin 7
tune -0.3 v
cw -10 v
cw with vox pull -0.12v

Martin

Garey Barrell a ?crit :
>
> What is the setting for the CW DELAY pot? See if turning it either full
> CCW or CW will cause the relay to drop out.
>
> Check the voltage on Pin 7 of V10 with a high impedance (11 M) meter.
>
> Garey - K4OAH
>
> Martin wrote:
> > I checked
> > CR15 OK
> > C107 OK
> > R 96 substitute for 960K
> > R102 substitue for 960K by previous owner
> > V10 resistance on tune mode is 1.2 meg NOT 2 Meg ?
> > all diode OK
> > any other idea ?
> > Tnx for help
> > Martin
> >
> > Garey Barrell a ?crit :
> >
> >> Martin -
> >>
> >> Have you checked CR15? If OK, check C107 by paralleling it with a
> >> similar cap.
> >>
> >> The KEY jack is a "shorting" type, i.e., with no key plugged in the
> >> transmitter is Keyed when in CW.
> >>
> >> ??
> >>
> >> 73, Garey - K4OAH
> >> Atlanta
> >>
> >> Drake 2-B, 4-B & C-Line Service Supplement CDs

> >> <www.k4oah.com>
> >>
> >> jeu3pneu wrote:
> >>
> >>> HI all;
> >>>
> >>>
> >>>
> >>>
> >>> I have a late serial T4XC that goes into transmit mode c/w sidetone as
> >>> soon as the mode switch is placed in the CW position. AM & SSB
> >>> positions are fine but on CW the rig keys up with or without a key in
> >>> the key jack. There is no CW output until you close the key contacts.
> >>>
> >>> Tube substitution of V-10 and the VOX preamp tube do not help.
> >>>
> >>>
> >>> All 5 diodes on the CW line and VOX circuit were replaced with new
> >>>
> >> ones.
> >>
> >>> This is a 6FQ7 Vox tube version.
> >>>
> >>> Anyone else solve a similar experience and can shorten my bench time?
> >>>
> >>> Thanks in advance!
> >>>
> >>> Martin
> >>> VE2EDK
> >>>
>
>

227. Fw: [HamRadioHelpGroup] It's Official!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-24 16:27:00 UTC
From: Don
Topic: 227 Message: 227

It's Official! Morse Code Requirement Ends Friday, February 23
NEWINGTON, CT, Jan 24, 2007 -- Circle Friday, February 23, on your calendar. That's when the current 5 WPM Morse code requirement will officially disappear from the Amateur Radio Service Part 97 rules. On or after that date, applicants for a General or Amateur Extra class Amateur Radio license no longer will have to demonstrate proficiency in Morse code. They'll just have to pass the applicable written examination. The appearance in today's Federal Register of the FCC's Report and Order (R&O) in the "Morse code proceeding," WT Docket 05-235, starts a 30-day countdown for the new rules to become effective. Deletion of the Morse requirement -- still a matter of controversy within the amateur community -- is a landmark in Amateur Radio history.

----- Original Message -----

Morse Code Testing Requirement Ends Friday, February 23, 2007

Here is a link to the ARRL artical on the printing in the Federal
Register.

http://www.arrl.org/news/stories/2007/01/24/100/?nc=1

Here is a link to the Federal Register.

http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-729.pdf

[Non-text portions of this message have been removed]

228. FS: DRAKE 2C W/ 2 NB, MS-4 SPEAKER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-27 11:31:35 UTC
From: ae2jl
Topic: 228 Message: 228

Drake 2C - original finish, very nice cosmetically, operates well with 2-NB noise blanker, four accessory SW band xtals in addition to ham band stock xtals. I will include manual copy. Price, $195 plus shipping or $245 plus shipping with a MS-4 speaker also very nice condition(no scratches).

229. TR-4CW and D104 Wiring Diagram

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-27 13:31:43 UTC
From: Charlie Seymour NJ3A
Topic: 229 Message: 229

I've got a TR-4CW that needed a microphone. I found a D104 on ebay and now need to wire it to the Drake plug I have. The plug side is pretty simple, the D104 side has lots of connectors and wires. I'm just not sure which is which. Any help from the group would be greatly appreciated.

Thanks,
Charlie
NJ3A

230. Re: [DrakeRadio] TR-4CW and D104 Wiring Diagram

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-27 14:26:00 UTC
From: Larry Taft
Topic: 229 Message: 230

Do a web search (Google) for "Astatic D104 microphone" and you will eventually come to sites that have the wiring diagram for the TUG9 amplified base for the D104. You don't need to use the amp in the base as the D104 crystal element has enough output to directly drive the mic input of the Drake.

What you want is shield to the sleeve of the plug, PTT to the tip and mic to the ring. In the base the other side of the mic goes to the shield along with the other side of the PTT switch. Direct connection of the mic lets you use VOX if you want. You'll need to sort out the base wires going up the tube to the mic and the PTT switch with an ohmmeter as the color code was not consistent.

A simple test of the mic is to hook your digital VOM to the two mic wires, set the meter for low volts AC and give a "HOOWIE" into the mic. You should see 100 to 200 millivolts (0.1 to 0.2 volts) on the meter.

Make sure the jack on the TR-4CW is properly wired too as I have seen several modified rigs where the mic and PTT were swapped because the owner converted the jack to the common 1/4 inch phone plug rather than find the 0.209 diameter plug that was used by Drake.

The reason the PTT is the tip and mic is the ring is to prevent the PTT voltage from being momentarily connected to the mic if you plug in the mic after the rig is on.

73, Larry K2LT
drakerepair.com 800-687-9161

Charlie Seymour NJ3A wrote:
> I've got a TR-4CW that needed a microphone. I found a D104 on ebay and
> now need to wire it to the Drake plug I have. The plug side is pretty
> simple, the D104 side has lots of connectors and wires. I'm just not
> sure which is which. Any help from the group would be greatly
> appreciated.
>
> Thanks,
> Charlie
> NJ3A
>
>
>
>
> Yahoo! Groups Links
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>
>
>

231. Re: [DrakeRadio] TR-4CW and D104 Wiring Diagram

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-27 15:36:03 UTC
From: Don
Topic: 229 Message: 231

http://www.shadowstorm.com/cb/Astatic_D-104_Papers.html

----- Original Message -----
From: Charlie Seymour NJ3A
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 27, 2007 6:31 AM
Subject: [DrakeRadio] TR-4CW and D104 Wiring Diagram

I've got a TR-4CW that needed a microphone. I found a D104 on ebay and now need to wire it to the Drake plug I have. The plug side is pretty simple, the D104 side has lots of connectors and wires. I'm just not sure which is which. Any help from the group would be greatly appreciated.

Thanks,
Charlie
NJ3A

[Non-text portions of this message have been removed]

232. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-28 10:40:08 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 232

All group memebers are welcome to post here on this message board so for those that have questions please don't be shy and for those that have answers please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

233. Voltage Rating for Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-28 17:49:12 UTC
From: ae2jl
Topic: 233 Message: 233

I have a 2C and I've noticed that the voltage rating is listed
as "120VAC". My other receivers, 2B, R-4B, are listed as 120/240 VAC.
Is this a misprint or was the 2C only rated for 120VAC?. 73, Joel AE2JL

234. Re: [DrakeRadio] Voltage Rating for Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-29 00:17:45 UTC
From: Garey Barrell
Topic: 233 Message: 234

Joel -

The early 2-Cs had a single 120VAC primary transformer.

Effective with s/n 1000, that was changed to a dual primary transformer
that could be connected for either 120 or 240 VAC.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

ae2jl wrote:
> I have a 2C and I've noticed that the voltage rating is listed
> as "120VAC". My other receivers, 2B, R-4B, are listed as 120/240 VAC.
> Is this a misprint or was the 2C only rated for 120VAC?. 73, Joel AE2JL
>
>
>
>
> Yahoo! Groups Links
>
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>
>

235. Loss of S meter levels?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-01-29 01:05:53 UTC
From: K5VSE
Topic: 235 Message: 235

Hey Garey,

Got any idea what would cause my R-4C to drop the S meter readings. Normally my noise level will run about S-7/8. At times it drops to S-3/4. The signals also drop about the same amount. Now, the strange part, is the sensitivity does not seem to change. I can turn on the calibrator and get 20+ readings. I thought it might be the relay in the transmitter, and I have three new ones, so on two occasions have swapped them and the same symptoms appear. Also when I turn on the T-4XC it will turn off the receiver. I can hit the transmitter and all is well for the rest of the time I am using it. I've cleaned all the switches, controls, etc. and the same thing. Re-soldered numerous connections and still get the problem. May be all are tied to the same thing, but now I'm not sure whether I have a receiver or transmitter problem. Any ideas floating around in your mind?

Thanks
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

236. Re: t4xc sidetone / VOX problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-07 16:35:39 UTC
From: Martin
Topic: 236 Message: 236

Martin a ?crit :
> Hello
> i am mix up with this t4xc problem.
> I have a problem with the sidetone being present in the CW-mode all
> the time the VOX is active.
> I made the test voltage and resistance on tube.
> Only suspect thing is
> PIN 7 of the 6FQ7
> read -0.73V instead of - .36 and 1.04 megohms
> instead of 2 meg
> R68 ok
> R69 ok
> R71 ok
>
> any idea ?
> Martin
> VE2EDK
>
>
>

237. Re: t4xc sidetone / VOX problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-07 17:03:56 UTC
From: Garey Barrell
Topic: 236 Message: 237

Martin -

The tone is "keyed" by CR15. CR15 is either forward biased to "short circuit" the audio tone to ground, or reverse biased to allow the tone to pass to V9b, by DC bias.

Try paralleling another capacitor across C107. When this capacitor dries out, the ESR goes up and the AF tone from V9a is coupled via the B+ line over to V9b, effectively bypassing the control of CR15.

Let me know!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Martin wrote:
>
>
> Martin a ?crit :
>>
>>
>> Martin a ?crit :
>>> Hello Garey
>>> i am mix up with this t4xc problem.
>>> I have a problem with the sidetone being present in the CW-mode all
>>> the time the VOX is active.
>>> I made the test voltage and resistance on tube.
>>> Only suspect thing is
>>> PIN 7 of the 6FQ7
>>> read -0.73V instead of - .36 and 1.04 megohms
>>> instead of 2 meg
>>> R68 ok
>>> R69 ok
>>> R71 ok
>>>
>>> any idea ?
>>> Martin
>>> VE2EDK
>>>
>>>
>>
>>
>

>

238. Fw: [dx-list] Coming soon....BS7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-08 23:40:23 UTC
From: Don
Topic: 238 Message: 238

----- Original Message -----
From: Don Greenbaum
To: dx-list@yahoogroups.com
Sent: Thursday, February 08, 2007 9:41 AM
Subject: [dx-list] Coming soon to a radio near you....BS7

After 3 years of hard work it gives me great pride to post this to the reflector:

Announcing the 2007 DXpedition to Huang Yan Dao

Better Known as....Scarborough Reef

After three years of effort to obtain permission to land and operate from the most needed entity in the world, that needed authorization has been received. A multi-national team led by W6RGG will operate from Scarborough Reef for ten days in late April 2007. BA1HAM and BV4FH have been instrumental in bringing this operation to reality with ongoing support being provided by N4XP, N1DG, K5YY and N6MZ.

A team is being assembled that will include members from Asia, Europe and the USA.

As with any DXpedition to a location such as this, transportation is very costly and will be the largest single expense. Success will depend on the contributions of the DX Community.

Please QRX for more information as it becomes available and the web site is activated.

N4XP for the 2007 DXPedition to Huang Yan Dao.

More to come......but we've already updated the online log and the first qsls are already in the mail so don't ask.

Don

N1DG--Licensed since 1962
EX-WB2DND, A61AD (GUEST OP, QSL MGR), A52DG, /KH9, /BV, /VS6, /4X, /9V
Pilot: VU7RG, 3Y0X, VK9ML, D68C, VK0IR, K8XP/KH9, 9M0C, ZK1XXP, ZL9CI
Webmaster: K5K, A52A, VK0IR, 9M0C, ZK1XXP, WB2DND/KH9, BQ9P, ZL9CI
QSL Manager: A61AD, A61AO, A61X, A61AQ, KH7Z
Member: FOC, ARRL, DDXA, YCCC
DON GREENBAUM

DUXBURY, MA, USA
AIM: aurumtel

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

239. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-11 10:02:36 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 239

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

240. Drake R8A for JRC receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-13 02:32:47 UTC
From: ae2jl
Topic: 240 Message: 240

I am interested in trading my Drake R8A receiver with speaker and original instructions for a JRC general communications receiver. What do you have? 73, Joel AE2JL

241. Wanted, Your Boatanchor on air.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-13 13:11:16 UTC
From: outbacktech
Topic: 241 Message: 241

Wanted, Your Boatanchor on air.

After a conversation on 40m one evening, the idea was mooted by a few blokes after a few "Gassy 807's", that once a week operators with Valve Radios or Hybrid Valve radios meet for a general "Rag-Chew" on 40m. The frequency of 7.087Mhz + or ☐ QRM was suggested with a calling time 0900Z on Tuesday evenings with the idea of forming an Australian Boatanchor group. If the interest is there this can be a bit of fun, with the empyesis of keeping valve equipment running and on the air. So pull your old Yaesu' s, Kenwoods, Swan's, Drake's, Heathkit's, Collins', Hallicrafters, Hammarlunds and Homebrew's out of the cupboard and fire em up, remember Keep em glowin!! Contact me if you have any queries Frank Woolfe VK5MFW, frankwoolfe@...

242. Re: [DrakeRadio] Wanted, Your Boatanchor on air.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-13 13:49:17 UTC
From: Don
Topic: 241 Message: 242

that sounds like a pretty good Idea, and maybe even fun!
I have added a folder under the "Files" section of the groups home page titled "Nets"
and I took the liberty to list this on there. If any others in the group know of related nets
or trying to start one, we can post the information there for the rest of the group as well as
with posting it e-mail. If your not sure how to do that or have trouble with anything else on
the groups homepage, please let me know, I'll be glad to help
Also, if a posted net should become inactive, or if you find a bad link or file, please let me
know so that I might correct it.
Also, I do a lot of PSK31 using a newer radio, however a few days ago I had a QSO with a gentleman
who was using a TR-7, and it worked very well! I did notice a slight change in freq each time he keyed up,
but it was very slight, barely noticable, and once he keyed-up, it didn't drift.
I really like the TR-7 myself, however I really didn't think it would perform that well on such a narrow-bandwith
digital mode.
These really are great radios !

Thanks,
Don
KE7FFM

----- Original Message -----
From: outbacktech
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, February 13, 2007 6:11 AM
Subject: [DrakeRadio] Wanted, Your Boatanchor on air.

Wanted, Your Boatanchor on air.

After a conversation on 40m one evening, the idea was mooted by a few
blokes after a few "Gassy 807's", that once a week operators with Valve
Radios or Hybrid Valve radios meet for a general "Rag-Chew" on 40m. The
frequency of 7.087Mhz + or - QRM was suggested with a calling time
0900Z on Tuesday evenings with the idea of forming an Australian
Boatanchor group. If the interest is there this can be a bit of fun,
with the empyesis of keeping valve equipment running and on the air. So
pull your old Yaesu' s, Kenwoods, Swan's, Drake's, Heathkit's,
Collins', Hallicrafters, Hammarlunds and Homebrew's out of the cupboard
and fire em up, remember Keep em glowin!! Contact me if you have any
queries Frank Woolfe VK5MFW, frankwoolfe@...

[Non-text portions of this message have been removed]

243. Tuning up the Drake L4B Amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-13 21:00:23 UTC
From: astroham2003
Topic: 243 Message: 243

I really have never used an amp. Ran barefoot much of the 40 years dxing. I am somewhat confused by the manual when it states when tuning for ssb that "turn on the exciter and increase the exciter output while not exceeding .400 Amperes plate current". So far so good ok? Now it then states "while increasing the exciter power, maintain 220mA of grid current with the LOAD control until 0.565 plate Amperes is reached". This is where I don't get it. How do I use the exciter power to maintain
the grid current with the load control? This doesn't make sense.

Now I will state how I have been tuning the amp and please let me know if I am doing it correctly.

Using the exciter I put .400mA of plate amps and then tune the plate and load controls for maximum output using my external wattmeter as the output meter. I then add more exciter power to bring my grid current up to and no more than 225mA and then once again tune the plate and load controls for maximum output. I then throw the red button on the bottom right hand corner of the amp from the cw/tune position to ssb and off I go with a ssb qso. Is this the correct way of doing this?

Thanks for taking the time to reply.

john-n4dsp

244. FS: Drake R-4B, MS-4, FR-4 freq readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-14 14:57:37 UTC
From: ae2jl
Topic: 244 Message: 244

Drake R-4B,MS-4 speaker and FR-4 frequency readout all in very nice ORIGINAL condition,all work well, original manuals. Price, $449 plus shipping.Tnx for looking, 73, Joel AE2JL

245. Re: [DrakeRadio] Tuning up the Drake L4B Amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-14 23:21:48 UTC
From: Don
Topic: 243 Message: 245

Sorry no answers yet John, I have never ran an amp of any brand, so I wouldn't know on this one,
we are still a small group here, and many follks get this in a "digest" format. So sometimes it can take
2 or 3 days before you see a response.
I would also check through some of the links, as there might be some info on one of those websites as well.

http://groups.yahoo.com/group/DrakeRadio/links

Don
ke7ffm

----- Original Message -----
From: astroham2003
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, February 13, 2007 2:00 PM
Subject: [DrakeRadio] Tuning up the Drake L4B Amp

I really have never used an amp. Ran barefoot much of the 40 years dxing. I am somewhat confused by the manual when it states when tuning for ssb that "turn on the exciter and increase the exciter output while not exceeding .400 Amperes plate current". So far so good ok? Now it then states "while increasing the exciter power, maintain 220mA of grid current with the LOAD control until 0.565 plate Amperes is reached". This is where I don't get it. How do I use the exciter power to maintain
the grid current with the load control? This doesn't make sense.

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Thanks for taking the time to reply.

john-n4dsp

[Non-text portions of this message have been removed]

246. Re: [DrakeRadio] Tuning up the Drake L4B Amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-15 04:17:42 UTC
From: Garey Barrell
Topic: 243 Message: 246

John -

The correct method is outlined in the manual.

Turn the exciter output power to minimum.

Amp meter switch on Grid current position, power switch to CW.

Key the transmitter and amp.

Increase transmitter output until plate meter reads upscale, then dip Plate control on Amp for minimum plate current.

Increase transmitter output while watching Grid current. When Grid current gets to 150 mA or so, increase Load control on amp which will increase plate current and reduce Grid current, then redip Plate control.

Continue until Plate current reaches 0.565 mA when dipped and Grid current is 220 mA.

Should take about 65W of drive power to achieve this. Then switch to SSB and talk.

Much easier to do than describe. Most critical is to keep grid current at or slightly under 220 mA. For a given drive power, dipping the Plate control will cause Grid current to increase and increasing the Load control will cause the Grid current to decrease.

The amp will just about make the legal limit when driven with a typical 100W driver, so tuning for maximum output, which will occur with more than 0.565 mA of Plate current won't hurt anything. AS LONG AS YOU KEEP THE FINAL LOADED GRID CURRENT AT OR BELOW 220 mA. Regardless of tune-up method, as long as you keep the Plate current dipped (resonant) and the Grid current at or below 220 mA when done.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

astroham2003 wrote:
> I really have never used an amp. Ran barefoot much of the 40 years
> dxing. I am somewhat confused by the manual when it states when tuning
> for ssb that "turn on the exciter and increase the exciter output
> while not exceeding .400 Amperes plate current". So far so good ok?
> Now it then states "while increasing the exciter power, maintain 220mA
> of grid current with the LOAD control until 0.565 plate Amperes is

> reached". This is where I don't get it. How do I use the exciter power
> to maintain
> the grid current with the load control? This doesn't make sense.
>
> Now I will state how I have been tuning the amp and please let me know
> if I am doing it correctly.
>
> Using the exciter I put .400mA of plate amps and then tune the plate
> and load controls for maximum output using my external wattmeter as
> the output meter. I then add more exciter power to bring my grid
> current up to and no more than 225mA and then once again tune the
> plate and load controls for maximum output. I then throw the red
> button on the bottom right hand corner of the amp from the cw/tune
> position to ssb and off I go with a ssb qso. Is this the correct way
> of doing this?
>
> Thanks for taking the time to reply.
>
> john-n4dsp
>
>
>

247. r4c filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 11:44:06 UTC
From: jeu3pneu
Topic: 247 Message: 247

hello
i also bought a R4C and i am looking for the 250hz filter?
if you have one for sale pse let me know.
Tnx
Martin
VE2EDK

248. t4xc fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 11:44:50 UTC
From: jeu3pneu
Topic: 248 Message: 248

Hello all
i bought recently a T4XC and i wonder where i can get 24vdc or 12 vdc
to plug
one of the two fan that i bought ?
any help ?
Tnx
Martin
VE2EDK

249. RE: [DrakeRadio] r4c filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 13:16:54 UTC
From: George- K4GM
Topic: 247 Message: 249

I think I have a spare. I'll look and let you know.

George K4GM

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jeu3pneu
Sent: Thursday, February 22, 2007 6:44 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] r4c filter

hello
i also bought a R4C and i am looking for the 250hz filter?
if you have one for sale pse let me know.
Tnx
Martin
VE2EDK

[Non-text portions of this message have been removed]

250. Re: [DrakeRadio] r4c filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 13:26:14 UTC
From: Martin
Topic: 247 Message: 250

Tnx George i am waiting.
Best 73!
MArtin
VE2EDK

George- K4GM a ?crit :
>
> I think I have a spare. I'll look and let you know.
>
> George K4GM
>
> _____
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of jeu3pneu
> Sent: Thursday, February 22, 2007 6:44 AM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] r4c filter
>
> hello
> i also bought a R4C and i am looking for the 250hz filter?
> if you have one for sale pse let me know.
> Tnx
> Martin
> VE2EDK
>
> [Non-text portions of this message have been removed]
>
>

251. Re: [DrakeRadio] t4xc fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 13:45:22 UTC
From: Garey Barrell
Topic: 248 Message: 251

Martin -

Easiest is to rectify the filament voltage. Most 12V fans run fine on
the approx 9V DC result. You don't need a LOT of air, just a gentle
breeze to blow heated air away from the PA cage.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hello all
> i bought recently a T4XC and i wonder where i can get 24vdc or 12 vdc
> to plug
> one of the two fan that i bought ?
> any help ?
> Tnx
> Martin
> VE2EDK
>
>
>
>

252. Re: [DrakeRadio] t4xc fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-22 14:35:12 UTC
From: Martin
Topic: 248 Message: 252

Tnx agn Garey !
Martin

Garey Barrell a ?crit :
>
> Martin -
>
> Easiest is to rectify the filament voltage. Most 12V fans run fine on
> the approx 9V DC result. You don't need a LOT of air, just a gentle
> breeze to blow heated air away from the PA cage.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
> > Hello all
> > i bought recently a T4XC and i wonder where i can get 24vdc or 12 vdc
> > to plug
> > one of the two fan that i bought ?
> > any help ?
> > Tnx
> > Martin
> > VE2EDK
> >
> >
> >
> >
>
>

253. MN7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-23 01:49:10 UTC
From: Don
Topic: 253 Message: 253

very nice looking tuner fs on ebay item#160087239742
not mine, dont know the saler, no personal interest ect, ect.

254. Microphone levels for B-line?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-23 20:41:21 UTC
From: Dave
Topic: 254 Message: 254

I'm putting together a little audio switchbox for some guys I do contesting with. We need to be able to switch mics and rigs. A B-line is a part of the setup. I used to own one, and still have the EV638 mic I used with it, although a desk mic isn't too handy for contesting.

What I need to be able to do is place a switch on my switchbox that resets the output voltage and impedance level to drive either the B-line or the solid state rig that is our other contest radio. The solid state rig only needs 5-10mV microphone level, and the B-line much more. But...has anybody measured the actual mic peak voltage level that the B-line needs? This old crystal microphone delivers about 1.5V peak (3V peak-to-peak) and I think I was able to run my T-4XB with the mic gain about 12:00 o'clock...so is that a good target level?

Thanks,

Dave W8NF

255. Re: [DrakeRadio] Microphone levels for B-line?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-23 22:31:41 UTC
From: Garey Barrell
Topic: 254 Message: 255

Dave -

Problem is that the B-Line expects a "high" voltage into a high impedance (100k+), and the SS rig expects a lower voltage into a low impedance (600 ohms). You can drive the B-Line with a low-Z source, but need the much higher voltage (3V p-p) to drive it adequately.

You might look up the Astatic D-104 microphone with Google and find a description of the base mounted preamp. There are also articles for a FET preamp on the internet.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dave wrote:
> I'm putting together a little audio switchbox for some guys I do
> contesting with. We need to be able to switch mics and rigs. A
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> contesting.
>
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> resets the output voltage and impedance level to drive either the
> B-line or the solid state rig that is our other contest radio. The
> solid state rig only needs 5-10mV microphone level, and the B-line
> much more. But...has anybody measured the actual mic peak voltage
> level that the B-line needs? This old crystal microphone delivers
> about 1.5V peak (3V peak-to-peak) and I think I was able to run my
> T-4XB with the mic gain about 12:00 o'clock...so is that a good target
> level?
>
> Thanks,
>
> Dave W8NF
>
>

256. Re: [DrakeRadio] Microphone levels for B-line?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-24 01:13:06 UTC
From: Dave Haupt
Topic: 254 Message: 256

Hi Garey,

Interesting things come up when you Google D-104 preamp. There's a common claim out there that the purpose of the preamp was to equalize inferior crystal elements, when Astatic started purchasing them instead of making them.

Is 100kohms the right value? I was thinking that one megohm would be about right.

Well, I can measure the EV microphone I have and use that as a guide, I suppose.

Thank!

Dave W8NF

--- Garey Barrell <k4oah@...> wrote:

> Dave -
>
> Problem is that the B-Line expects a "high" voltage
> into a high
> impedance (100k+), and the SS rig expects a lower
> voltage into a low
> impedance (600 ohms). You can drive the B-Line with
> a low-Z source, but
> need the much higher voltage (3V p-p) to drive it
> adequately.
>
> You might look up the Astatic D-104 microphone with
> Google and find a
> description of the base mounted preamp. There are
> also articles for a
> FET preamp on the internet.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Dave wrote:
> > I'm putting together a little audio switchbox for

> some guys I do
> > contesting with. We need to be able to switch
> mics and rigs. A
> > B-line is a part of the setup. I used to own one,
> and still have the
> > EV638 mic I used with it, although a desk mic
> isn't too handy for
> > contesting.
> >
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> was able to run my
> > T-4XB with the mic gain about 12:00 o'clock...so
> is that a good target
> > level?
> >
> > Thanks,
> >
> > Dave W8NF
> >
> >
>
>
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257. Re: [DrakeRadio] Microphone levels for B-line?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-24 03:01:19 UTC
From: Garey Barrell
Topic: 254 Message: 257

Dave -

I think 500k to 1M is correct. The actual load resistance affects the response curve of the microphone. I believe one of the D-104 sites has some curves for various load Z's.

My understanding was that the advent of solid-state transmitters with their low-Z microphone inputs was at least part of the reason for the addition of the preamp. It also guaranteed the SAME response regardless of the load impedance, since the amplifier input Z could be tailored to get the desired response and the output was very low-Z and essentially unaffected by load Z.

There are some who believe that it was just a way to impress the CB market by allowing them to kick the wattmeter higher, who cares about distortion!

Personally, I'll stick with the first two ideas above.... I guess you have to adapt to make a product that spans a 70 year market life!!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dave Haupt wrote:
> Hi Garey,
>
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> purpose of the preamp was to equalize inferior crystal
> elements, when Astatic started purchasing them instead
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> megohm would be about right.
>
> Well, I can measure the EV microphone I have and use
> that as a guide, I suppose.
>
> Thank!
>
> Dave W8NF
>
> --- Garey Barrell <k4oah@...> wrote:
>

>
>> Dave -
>>
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>> into a high
>> impedance (100k+), and the SS rig expects a lower
>> voltage into a low
>> impedance (600 ohms). You can drive the B-Line with
>> a low-Z source, but
>> need the much higher voltage (3V p-p) to drive it
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>>
>> 73, Garey - K4OAH
>> Atlanta
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>

258. Re: [DrakeRadio] Microphone levels for B-line?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-24 04:56:24 UTC
From: Don
Topic: 254 Message: 258

a very versatile mic! and Astatic has only stop producing them here
a couple of years ago.
My first D-104 was actually on a Demco super satelite 23 channel all
tube cb. and was without
the preamp, the cb had its on preamp and early version of a speech
processor they called a "modulator"
this was back when cb's required a license and wasn't at all like it
is today.
I used one both with and without the preamp on a TR7, worked well
enough. At least, no one complained.
Don
Ke7ffm

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, February 23, 2007 8:01 PM
Subject: Re: [DrakeRadio] Microphone levels for B-line?

> Dave -
>
> I think 500k to 1M is correct. The actual load resistance affects
> the
> response curve of the microphone. I believe one of the D-104 sites
> has
> some curves for various load Z's.
>
> My understanding was that the advent of solid-state transmitters
> with
> their low-Z microphone inputs was at least part of the reason for
> the
> addition of the preamp. It also guaranteed the SAME response
> regardless
> of the load impedance, since the amplifier input Z could be
> tailored to
> get the desired response and the output was very low-Z and
> essentially
> unaffected by load Z.
>
> There are some who believe that it was just a way to impress the CB
> market by allowing them to kick the wattmeter higher, who cares
> about
> distortion!
>
> Personally, I'll stick with the first two ideas above.... I guess

> you
> have to adapt to make a product that spans a 70 year market life!!
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Dave Haupt wrote:
>> Hi Garey,
>>
>> Interesting things come up when you Google D-104
>> preamp. There's a common claim out there that the
>> purpose of the preamp was to equalize inferior crystal
>> elements, when Astatic started purchasing them instead
>> of making them.
>>
>> Is 100kohms the right value? I was thinking that one
>> megohm would be about right.
>>
>> Well, I can measure the EV microphone I have and use
>> that as a guide, I suppose.
>>
>> Thank!
>>
>> Dave W8NF
>>
>> --- Garey Barrell <k4oah@...> wrote:
>>
>>
>>> Dave -
>>>
>>> Problem is that the B-Line expects a "high" voltage
>>> into a high
>>> impedance (100k+), and the SS rig expects a lower
>>> voltage into a low
>>> impedance (600 ohms). You can drive the B-Line with
>>> a low-Z source, but
>>> need the much higher voltage (3V p-p) to drive it
>>> adequately.
>>>
>>> You might look up the Astatic D-104 microphone with
>>> Google and find a
>>> description of the base mounted preamp. There are
>>> also articles for a
>>> FET preamp on the internet.
>>>

>>> 73, Garey - K4OAH
>>> Atlanta
>>>
>>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>>> <www.k4oah.com>
>>>
>

259. WTB- 100 Khz Crystal for Drake 2-AC Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-24 16:25:42 UTC
From: ae2jl
Topic: 259 Message: 259

I am seeking a used 100 Khz crystal that fits the Drake 2-AC crystal calibrator. Tnx for looking, 73, Joel AE2JL

260. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-25 10:08:09 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 260

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

261. T4X VOX locks up!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-25 13:59:31 UTC
From: steve_n0tu
Topic: 261 Message: 261

In CW mode my T4X is hanging up lately! I can't get it to retrun to standby with out turning it off then back on again? VOX delay has no effect and VOX sensitivity and gain controls are acting weird?

There's actually a combinations of setting on the VOX Sens &Gain controls where if I send a DIT it trips the relay then hangs until I send a DAH then it releases and goes into standb? Huh?

I've replaced the 6EV7 and swapped the 12AX7s? any suggestions?
TKS Steve

262. Re: [DrakeRadio] T4X VOX locks up!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-25 18:51:30 UTC
From: Garey Barrell
Topic: 261 Message: 262

Steve -

First, check the bias supply to make sure it's at ~ -60VDC with NO ripple.

Check R94 and R95.

Possibly leaky C143.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

steve_n0tu wrote:
> In CW mode my T4X is hanging up lately! I can't get it to retrun to
> standby with out turning it off then back on again? VOX delay has no
> effect and VOX sensitivity and gain controls are acting weird?
>
> There's actually a combinations of setting on the VOX Sens &Gain
> controls where if I send a DIT it trips the relay then hangs until I
> send a DAH then it releases and goes into standb? Huh?
>
> I've replaced the 6EV7 and swapped the 12AX7s? any suggestions?
> TKS Steve
>
>

263. Re: [DrakeRadio] T4X VOX locks up!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-25 22:52:33 UTC
From: Dave Haupt
Topic: 261 Message: 263

My T-4XB did the same thing. The VOX circuitry is extremely high impedance and it's amazing how much damage a little dirt can do. After replacing the tube did not help, I cleaned the tube pins, the chassis and connector around the CW key input, the VOX delay and sensitivity pots, and used alcohol and a toothbrush on the insulation on the top and bottom side of the tube socket. This cleared up my rig's symptoms.

Hope yours is this easy.

Dave W8NF

--- Garey Barrell <k4oah@...> wrote:

> Steve -
>
> First, check the bias supply to make sure it's at ~
> -60VDC with NO ripple.
>
> Check R94 and R95.
>
> Possibly leaky C143.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> steve_n0tu wrote:
> > In CW mode my T4X is hanging up lately! I can't
> get it to retrun to
> > standby with out turning it off then back on
> again? VOX delay has no
> > effect and VOX sensitivity and gain controls are
> acting weird?
> >
> > There's actually a combinations of setting on the
> VOX Sens &Gain
> > controls where if I send a DIT it trips the relay
> then hangs until I
> > send a DAH then it releases and goes into standb?
> Huh?

> >
> > I've replaced the 6EV7 and swapped the 12AX7s? any
> suggestions?
> > TKS Steve
> >
> >
>
>
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Need a quick answer? Get one in minutes from people who know.
Ask your question on www.Answers.yahoo.com

264. R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-26 03:31:34 UTC
From: Martin
Topic: 264 Message: 264

Hello to all
i have problem with the notch in the R4C.
I am wondering what kind of tool i need to tune the slug inside the notch coil ?

any body experiment problem with notch with R4C ???
Tnx

Martin
VE2EDK

265. Re: [DrakeRadio] R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-26 04:06:40 UTC
From: Don
Topic: 264 Message: 265

Thats a new one on me. 73, Garey - K4OAH is the resident expert
on these tube Drakes
BTW, Garey I would like to thank you so very much for your
contributions here, and on other list,
your knowledge and experience with these radios is awesome !!
I think I speak for anyone who has been around Drakes for
awhile, I hope it is a long , long time
before you leave us ! would you do me a personnal favor? would you
post your bio and tell us about yourself here?
just like the radio's you support, your own legacy should be recorded
somewhere.
for the list: Garey has been very active on here and other
reflectors, and is THE "go to" guy on these radios !
I may be wrong, but I believe I read where Garey also does repair
work for those who need it. really supports the
radio by freely helping so many other Hams, so its not just a
commercial interest.
I myself have only used the TR-7 line, however, I am seriously
condsidering moving into the tube models, probably
starting out with the 2 line. any general advice on this ?
I'm not bad with the 7 line, as I am much more comfortable with
working on solid state devices, and the 7-line is
a really well designed, straight forward radio.

Don Frasher
KE7FFM
Idaho

PS. Recently I had a QSO with a gentleman on PSK31 who was using a
TR-7 very stable, amazing ! still competitive with today's radio!

----- Original Message -----
From: "Martin" <martin.benoit@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 25, 2007 8:31 PM
Subject: [DrakeRadio] R4C

> Hello to all
> i have problem with the notch in the R4C.
> I am wondering what kind of tool i need to tune the slug inside the
> notch coil ?
>
> any body experiment problem with notch with R4C ???
> Tnx
>
> Martin

> VE2EDK
>
>

266. Re: [DrakeRadio] R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-26 13:31:12 UTC
From: Martin
Topic: 264 Message: 266

I agree with you Don.
Garey help me very much with my T4XC vox problem and now with my R4C
notch problem.
It is a very very very gud guy.
Martin
VE2EDK/VA2ZO

Don a ?crit :
>
> Thats a new one on me. 73, Garey - K4OAH is the resident expert
> on these tube Drakes
> BTW, Garey I would like to thank you so very much for your
> contributions here, and on other list,
> your knowledge and experience with these radios is awesome !!
> I think I speak for anyone who has been around Drakes for
> awhile, I hope it is a long , long time
> before you leave us ! would you do me a personnal favor? would you
> post your bio and tell us about yourself here?
> just like the radio's you support, your own legacy should be recorded
> somewhere.
> for the list: Garey has been very active on here and other
> reflectors, and is THE "go to" guy on these radios !
> I may be wrong, but I believe I read where Garey also does repair
> work for those who need it. really supports the
> radio by freely helping so many other Hams, so its not just a
> commercial interest.
> I myself have only used the TR-7 line, however, I am seriously
> condsidering moving into the tube models, probably
> starting out with the 2 line. any general advice on this ?
> I'm not bad with the 7 line, as I am much more comfortable with
> working on solid state devices, and the 7-line is
> a really well designed, straight forward radio.
>
> Don Frasher
> KE7FFM
> Idaho
>
> PS. Recently I had a QSO with a gentleman on PSK31 who was using a
> TR-7 very stable, amazing ! still competitive with today's radio!
>
> ----- Original Message -----
> From: "Martin" <martin.benoit@...
> <mailto:martin.benoit%40sympatico.ca>>
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Sunday, February 25, 2007 8:31 PM

> Subject: [DrakeRadio] R4C
>
> > Hello to all
> > i have problem with the notch in the R4C.
> > I am wondering what kind of tool i need to tune the slug inside the
> > notch coil ?
> >
> > any body experiment problem with notch with R4C ???
> > Tnx
> >
> > Martin
> > VE2EDK
> >
> >
>
>

267. FS-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-02-27 23:06:46 UTC
From: mikemaghakian
Topic: 267 Message: 267

collector condition FS-4 for the SPR-4 with original manual
$475

mmaghakian@...

268. Drake 2A Osc. Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-04 11:52:52 UTC
From: w9bry
Topic: 268 Message: 268

Drakers,
I'm looking for a source for two oscillator crystals for my Drake 2A.
One is 11.0mhz (40m) and the other is 18.0mhz (20m).
Anyone have a lead, let me know.
Thanks
Barry

269. Re: [DrakeRadio] Drake 2A Osc. Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-04 15:53:15 UTC
From: Garey Barrell
Topic: 268 Message: 269

Barry -

International Crystal Manufacturing (www.icmfg.com) offers high quality crystals.

Some have used a "standard" $1 computer crystal at 18.0 MHz, which works fine if you don't have to have absolute frequency accuracy.

You might also try replacing the 6U8 oscillator tube with a 6EA8. This tube, with it's higher gain, will often "fix" sluggish crystals in the 2-B.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

w9bry wrote:
> Drakers,
> I'm looking for a source for two oscillator crystals for my Drake 2A.
> One is 11.0mhz (40m) and the other is 18.0mhz (20m).
> Anyone have a lead, let me know.
> Thanks
> Barry
>
>

270. TR 4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-04 22:41:46 UTC
From: kd4em
Topic: 270 Message: 270

I have an early TR 4 ser# 19--- that I am repairing. Everything working now but on 20 & 40 meters, the sidebands are reversed, can change position of sideband switch on these two bands and its OK. Im up against a wall with this, can anyone offer any suggestions?
Thanks & 73
Doug
KD4EM

271. tr4c help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-05 22:59:39 UTC
From: Martin
Topic: 271 Message: 271

ello
recently i' ve got a TR4C and a RV4C.
I have some problem with the TR4C.

The TR4C lack of sensibility. I have the volume turn full cw and i have difficulty to heard station.
When i plug the RV4C, turn the RV4C knob to rcv or rcv/xmt volume/sensibility is OK ?????
When i put the RV4C knob to OFF or XMT problem come back.
When i unplug the RV4C problem is there in the TR4C.

Any idea ?
MArtin
VE2EDK/VA2ZO

272. Re: [DrakeRadio] TR 4 Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-07 04:52:14 UTC
From: Larry Taft
Topic: 270 Message: 272

Doug,

That is due to the design of the rig. The easiest way to understand how the TR-4 frequency and sidebands are set up is to do a calculation of each band. The 80 meter band is the 9 MHz carrier minus the PTO 5 to 5.5 MHz. 20 meters is 9 plus 5 to 5.5. The other bands have a band oscillator involved too. 40 meters is 21.5 MHz minus PTO then mixed again minus 9.0 carrier to get 7.0. Name the filters above and below and do the calcs and you will see that the sidebands flip around depending on the band and the desired mode USB or LSB. Drake put in a set of rotary contacts on the band switch to operate the lights telling you which sideband you are on depending on the sideband switch setting.

I would think your TR-4 is fine.
73, Larry K2LT
drakerepair.com

kd4em wrote:
> I have an early TR 4 ser# 19--- that I am repairing. Everything working
> now but on 20 & 40 meters, the sidebands are reversed, can change
> position of sideband switch on these two bands and its OK. Im up
> against a wall with this, can anyone offer any suggestions?
> Thanks & 73
> Doug
> KD4EM
>
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273. Re: [DrakeRadio] tr4c help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-08 14:40:24 UTC
From: Larry Taft
Topic: 271 Message: 273

Martin wrote:
> ello
> recently i' ve got a TR4C and a RV4C.
> I have some problem with the TR4C.
>
> The TR4C lack of sensibility. I have the volume turn full cw and i
> have difficulty to heard station.
> When i plug the RV4C, turn the RV4C knob to rcv or rcv/xmt
> volume/sensibility is OK ?????
> When i put the RV4C knob to OFF or XMT problem come back.
> When i unplug the RV4C problem is there in the TR4C.
>
> Any idea ?
> MArtin
> VE2EDK/VA2Z
Try listening for the TR-4 PTO around 5 to 5.5 MHz with another receiver.

73, Larry K2LT
drakerepair.com

274. Re: [DrakeRadio] tr4c help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-09 03:38:47 UTC
From: Martin
Topic: 271 Message: 274

Hello Larry
i found the problem.:Bad soldering joint at R100.
Now there's only one problem left it is a big hum.
I found C4 defective in the PS.
Now the TR4C and the RV4C end the PS4 works very well.
Just S meter to adjust.
Sop Tnx and best 73 Larry.
Martin

Larry Taft a ?crit :
>
> Martin wrote:
> > ello
> > recently i' ve got a TR4C and a RV4C.
> > I have some problem with the TR4C.
> >
> > The TR4C lack of sensibility. I have the volume turn full cw and i
> > have difficulty to heard station.
> > When i plug the RV4C, turn the RV4C knob to rcv or rcv/xmt
> > volume/sensibility is OK ?????
> > When i put the RV4C knob to OFF or XMT problem come back.
> > When i unplug the RV4C problem is there in the TR4C.
> >
> > Any idea ?
> > MArtin
> > VE2EDK/VA2Z
> Try listening for the TR-4 PTO around 5 to 5.5 MHz with another receiver.
>
> 73, Larry K2LT
> drakerepair.com
>
>

275. Re: [DrakeRadio] tr4c help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-09 04:34:07 UTC
From: Larry Taft
Topic: 271 Message: 275

Glad you are getting it fixed. Enjoy your fine old radio.
73, Larry K2LT
drakerepair.com

Martin wrote:
> Hello Larry
> i found the problem.:Bad soldering joint at R100.
> Now there's only one problem left it is a big hum.
> I found C4 defective in the PS.
> Now the TR4C and the RV4C end the PS4 works very well.
> Just S meter to adjust.
> Sop Tnx and best 73 Larry.
> Martin
>
>
>
> Larry Taft a ?crit :
>
>> Martin wrote:
>>
>>> ello
>>> recently i' ve got a TR4C and a RV4C.
>>> I have some problem with the TR4C.
>>>
>>> The TR4C lack of sensibility. I have the volume turn full cw and i
>>> have difficulty to heard station.
>>> When i plug the RV4C, turn the RV4C knob to rcv or rcv/xmt
>>> volume/sensibility is OK ?????
>>> When i put the RV4C knob to OFF or XMT problem come back.
>>> When i unplug the RV4C problem is there in the TR4C.
>>>
>>> Any idea ?
>>> MArtin
>>> VE2EDK/VA2Z
>>>
>> Try listening for the TR-4 PTO around 5 to 5.5 MHz with another receiver.
>>
>> 73, Larry K2LT
>> drakerepair.com
>>
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> Yahoo! Groups Links
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276. L-4B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-10 05:21:56 UTC
From: George- K4GM
Topic: 276 Message: 276

I recently obtained an L-4B which appears to be in virtually mint condition. It works fine but would like comments as to whether I am getting all the power I should expect or whether my tubes might be going soft. I have a pair of Eimac 3-500z tubes. Following the recommended tuning procedure I obtain an input of 1140 watts (1900 volts @ 600 ma with a grid current of 225 ma). Output is about 650-700 watts. For this input the output seems about right to me. I had hoped though with those two tubes that I could get a full kw out. Now if I switch to the SSB position I can get a full KW out on cw. Is there any reason not to run cw in the SSB position?? Finally, is this amp rated at 100 percent duty cycle for RTTY; i.e., may I tune it up in cw for 700 watts out, switch to RTTY and go?

Thanks in advance to all who respond,

George K4GM

[Non-text portions of this message have been removed]

277. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-11 02:14:38 UTC
From: Garey Barrell
Topic: 99 Message: 277

Unique supplemental service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

278. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-11 10:00:50 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 278

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

279. Re: L-4B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-12 08:22:52 UTC
From: astroham2003
Topic: 276 Message: 279

Don't know George and a very good question to ask. I also await replies to this. There are many knowledgeable persons in this group and don't know why they have not responded yet. Looking forward to hearing the answer to this.

73
john-n4dsp

--- In DrakeRadio@yahoogroups.com, "George- K4GM" <k4gm@...> wrote:
>
> I recently obtained an L-4B which appears to be in virtually mint condition.
> It works fine but would like comments as to whether I am getting all the
> power I should expect or whether my tubes might be going soft. I have a
> pair of Eimac 3-500z tubes. Following the recommended tuning procedure I
> obtain an input of 1140 watts (1900 volts @ 600 ma with a grid current of
> 225 ma). Output is about 650-700 watts. For this input the output seems
> about right to me. I had hoped though with those two tubes that I could get
> a full kw out. Now if I switch to the SSB position I can get a full KW out
> on cw. Is there any reason not to run cw in the SSB position?? Finally,
> is this amp rated at 100 percent duty cycle for RTTY; i.e., may I tune it up
> in cw for 700 watts out, switch to RTTY and go?
>
>
>
> Thanks in advance to all who respond,
>
>
>
> George K4GM
>
>
>
> [Non-text portions of this message have been removed]
>

280. Re: [DrakeRadio] Re: L-4B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-12 12:49:46 UTC
From: Garey Barrell
Topic: 276 Message: 280

George -

Short answer, sure you can!

Correct answer, not a good idea.....

The L-4B was designed when the PEP _INPUT_ limit for amateur radio was 2KW, derived from a 1KW "single-tone" (CW) carrier. The cooling system for the L-4B was designed to be adequate for _specified_ operation as a trade-off against blower noise.

The real question is, WHY? Yes, you can push the 3-500Zs, their cooling system and the power supply for a 1 KW CW output, actually you can get about 1400W output. The question though is WHY would you want to push the system past it's design goals for approximately _ONE-HALF_ of an S-Unit at the receive end?? If you only go to 1KW output, you're gaining less than one quarter of an S-Unit!!

Also, yes you can run 1 KW RTTY with the L-4B. I would suggest adding a fan on top of the power supply AND a fan blowing air across the top of the RF cabinet itself. Again, the question is ... WHY? So you can put "1KW output here" in your brag tape?? (Excuse me, brag "function key")! :-)

After all, a pair of 3-500Zs will only run you about $3-400 for Chinese made copies. Or, you can run them at the design parameters and the Eimac's will last the rest of your life.....

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

astroham2003 wrote:
> Don't know George and a very good question to ask. I also await
> replies to this. There are many knowledgeable persons in this group
> and don't know why they have not responded yet. Looking forward to
> hearing the answer to this.
>
> 73
> john-n4dsp
>
>
> --- In DrakeRadio@yahoogroups.com, "George- K4GM" <k4gm@...> wrote:
>
>> I recently obtained an L-4B which appears to be in virtually mint

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>
>> It works fine but would like comments as to whether I am getting all the
>> power I should expect or whether my tubes might be going soft. I
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> have a
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>> pair of Eimac 3-500z tubes. Following the recommended tuning
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> procedure I
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>> obtain an input of 1140 watts (1900 volts @ 600 ma with a grid
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> current of
>
>> 225 ma). Output is about 650-700 watts. For this input the output seems
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> could get
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>> a full kw out. Now if I switch to the SSB position I can get a full
>>
> KW out
>
>> on cw. Is there any reason not to run cw in the SSB position??
>>
> Finally,
>
>> is this amp rated at 100 percent duty cycle for RTTY; i.e., may I
>>
> tune it up
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>> in cw for 700 watts out, switch to RTTY and go?
>>
>>
>>
>> Thanks in advance to all who respond,
>>
>>
>>
>> George K4GM
>>
>>

281. RE: [DrakeRadio] Re: L-4B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-12 17:33:22 UTC
From: K4GM George
Topic: 276 Message: 281

I was aware of the S unit considerations you mentioned. I just wanted to know to what specs the L-4B had been designed. I've been using it at 700w output where it runs amazingly cool. That is about as high as I want to go now that I know the L-4B design goals. BTW I've been around ham radio since before Drake ever sold an L--4B.... the 2-B was THE receiver when I started. None of my friends back then could concede that such a fine receiver could be built into such a light weight package.

Thanks to all who answered.

73, George K4GM

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Monday, March 12, 2007 8:50 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: L-4B Question

George -

Short answer, sure you can!

Correct answer, not a good idea.....

The L-4B was designed when the PEP _INPUT_ limit for amateur radio was 2KW, derived from a 1KW "single-tone" (CW) carrier. The cooling system for the L-4B was designed to be adequate for _specified_ operation as a trade-off against blower noise.

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After all, a pair of 3-500Zs will only run you about $3-400 for Chinese made copies. Or, you can run them at the design parameters and the Eimac's will last the rest of your life.....

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

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> Don't know George and a very good question to ask. I also await
> replies to this. There are many knowledgeable persons in this group
> and don't know why they have not responded yet. Looking forward to
> hearing the answer to this.
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> 73
> john-n4dsp
>
>
> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com,
"George- K4GM" <k4gm@...> wrote:
>
>> I recently obtained an L-4B which appears to be in virtually mint
>>
> condition.
>
>> It works fine but would like comments as to whether I am getting all the
>> power I should expect or whether my tubes might be going soft. I
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> current of
>
>> 225 ma). Output is about 650-700 watts. For this input the output seems
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> could get
>
>> a full kw out. Now if I switch to the SSB position I can get a full
>>
> KW out
>
>> on cw. Is there any reason not to run cw in the SSB position??
>>
> Finally,
>
>> is this amp rated at 100 percent duty cycle for RTTY; i.e., may I
>>
> tune it up

>
>> in cw for 700 watts out, switch to RTTY and go?
>>
>>
>>
>> Thanks in advance to all who respond,
>>
>>
>>
>> George K4GM
>>
>>

[Non-text portions of this message have been removed]

282. Re: [DrakeRadio] Re: L-4B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-12 18:23:03 UTC
From: Garey Barrell
Topic: 276 Message: 282

George -

OK, cool. (So to speak!) Well you'd be surprised how many DON'T
understand the S-Meter considerations! :-)

The 1-A "mailbox" receiver was the first to dispel the "under 50 pounds
= unstable" myth. Wish I still had mine! We demonstrated the 2-B by
tuning in a CW signal, and then lifting the front edge of the receiver
off the counter a couple of inches and dropping it! It would "boing"
slightly, if at all, and return exactly where it was. The guy would
reach over to turn the main tuning to make sure we were listening to
THAT receiver.... Keep in mind this is in the day when you couldn't
walk across the floor in the same room with a Hallicrafter's 50 pounder
without it "boinging" up the band.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

K4GM George wrote:
> I was aware of the S unit considerations you mentioned. I just wanted to
> know to what specs the L-4B had been designed. I've been using it at 700w
> output where it runs amazingly cool. That is about as high as I want to go
> now that I know the L-4B design goals. BTW I've been around ham radio since
> before Drake ever sold an L--4B.... the 2-B was THE receiver when I started.
> None of my friends back then could concede that such a fine receiver could
> be built into such a light weight package.
>
> Thanks to all who answered.
>
> 73, George K4GM
>

283. FS: Drake R8A with MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-13 23:03:29 UTC
From: ae2jl
Topic: 283 Message: 283

I am selling my Drake R8A rcvr. It is in pristine condition- no marks, scratches, works well and comes with the original operating manual. Also included is my 4 ohm MS-4 speaker which matches one of the spkr outputs for the R8A. Price, $650 delivered to CONUS. Tnx, 73, Joel AE2JL

284. FS: FT- KENWOOD TS-950SDX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-16 15:09:18 UTC
From: ae2jl
Topic: 284 Message: 284

KENWOOD TS-950SDX, Serial # 41200145 just back from being serviced for sale-$1850 plus shipping or for trade, TS-2000 PLUS funds. Excellent cosmetic/operating condition with operating manual/service manual included. Thanks for looking, 73- Joel AE2JL

285. Re: FS: FT- KENWOOD TS-950SDX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-16 15:21:21 UTC
From: ae2jl
Topic: 284 Message: 285

--- In DrakeRadio@yahoogroups.com, "ae2jl" <jlevy01@...> wrote:
>THANKS- HARVEY
> KENWOOD TS-950SDX, Serial # 41200145 just back from being serviced
for
> sale-$1850 plus shipping or for trade, TS-2000 PLUS funds. Excellent
> cosmetic/operating condition with operating manual/service manual
> included. Thanks for looking, 73- Joel AE2JL
>

286. L4B TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-18 17:54:41 UTC
From: Martin
Topic: 286 Message: 286

Hello
i have some mystic problem with my TR7 ???
I use it with my L4B on 80 meters and i cant load my L4B very well.
Maximum watts output +-300

I load the L4B with TR4C and it have abt 600 watts ???

I changed the coax between the TR7 and the L4B and it is the same ?

Without L4B the TR7 have 140 watts on MN2000 ?

any idea
Tnx
MArtin
VA2ZO/VE2EDK

287. Re: [DrakeRadio] L4B TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-18 17:04:14 UTC
From: Tim Kass
Topic: 286 Message: 287

There may be an impedance mismatch on 80 meter tuned input coil for the L4B ... I believe they are adjustable..The TR-4 uses 3 6JB6's and therefore has more output than the TR-7 so that would also explain the differences in output....also there is sometimes differences in impedances particularly in the solid state radios...just a guess of course.

73, Tim
K8WBL

Martin <martin.benoit@...> wrote:
Hello
i have some mystic problem with my TR7 ???
I use it with my L4B on 80 meters and i cant load my L4B very well.
Maximum watts output +-300

I load the L4B with TR4C and it have abt 600 watts ???

I changed the coax between the TR7 and the L4B and it is the same ?

Without L4B the TR7 have 140 watts on MN2000 ?

any idea
Tnx
MArtin
VA2ZO/VE2EDK

"No man's life, liberty, or property are safe while the legislature is in session." Mark Twain

---
Now that's room service! Choose from over 150,000 hotels
in 45,000 destinations on Yahoo! Travel to find your fit.

[Non-text portions of this message have been removed]

288. Re: [DrakeRadio] L4B TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-18 17:36:38 UTC
From: Garey Barrell
Topic: 286 Message: 288

Martin -

The L-4B should only require about 60-70W of drive for full output.

What does the TR-7 power meter read when you are driving the L-4B?

If the TR-7 power reading is low when driving the L-4B. most likely the Input matching adjustment on the L-4B is mis-tuned. If you insert an SWR meter between the TR-7 and the L-4B, you will probably see a high reflected component on 80M. This high SWR is causing the TR-7 to fold back it's output power to protect the TR-7 finals.

If you DO see a high SWR between the units, you need to perform the Input Coil Adjustment procedure in the L-4B manual, Section 5-14. The adjustment is very broad, and will cover the entire 80M band - IF - it is set correctly. Normal setting is with the adjustment near the top of it's travel. If your 80M adjustment is not near the top, you can try just setting it there without going through the entire procedure to see if that reduces the SWR enough.

IF you are not able to adjust it, you may have a failed capacitor at C5, C11, C16 or C21.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello
> i have some mystic problem with my TR7 ???
> I use it with my L4B on 80 meters and i cant load my L4B very well.
> Maximum watts output +-300
>
> I load the L4B with TR4C and it have abt 600 watts ???
>
> I changed the coax between the TR7 and the L4B and it is the same ?
>
> Without L4B the TR7 have 140 watts on MN2000 ?
>
> any idea
> Tnx
> MArtin
> VA2ZO/VE2EDK
>
>

289. Fw: [drakelist] For Sale TR7 Misty Hollow VFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-20 20:35:54 UTC
From: Don
Topic: 289 Message: 289

----- Original Message -----
From: Paul
To: drakelist@...
Sent: Tuesday, March 20, 2007 11:38 AM
Subject: [drakelist] For Sale TR7 Misty Hollow VFO

I have a nice TR7 /PS7 with fan & filters or sale. Includes manual. Cabinet repainted. Front panel exc.
ser# 5228. Works fine,full output. Includes noise blanker.

$650.00

One month old Misty Hollow DDS 7501 VFO for running TR7/R7 together. With documentation,works Exc,looks new.I understand these are no longer being made.

$450.00

Buyer pays shipping.

Email off list if interested ad3g@...

Tnx Paul AD3G

[Non-text portions of this message have been removed]

290. TR-4C: 10 Meter Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-24 21:44:27 UTC
From: Ron DiProfio
Topic: 290 Message: 290

Hello Drake Group,

I have recently bought a TR-4C from an old friend. I'm hoping to put this transceiver into service again. The radio generally operates well but I noticed that the 28.0 and 29.1 band positions don't seem to work (receive). I have also noticed that there are some crystals missing, located behind the meter. From the legend on the chassis, it looks like the missing crystals are 43.6 and 42.5. Is this the reason some of the 10 meter band segments don't work? Are these crystals easily obtainable?

I'm new to this group so I hope this question is appropriate.

Ron
KB1LOU

291. Re: [DrakeRadio] TR-4C: 10 Meter Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-24 22:07:10 UTC
From: Garey Barrell
Topic: 290 Message: 291

Ron -

That is "normal" for the TR-4C.

Those two crystals were not included when the transceiver was new. They WERE included in the TR-3 and 4, but as a cost-cutting move were left out of the "C". In fairness to Drake, the TR-3/4 was intended for mobile SSB, which at the time meant 28.5 - 28.7 MHz or so. The later version TR-4CW and TR-4CwRIT DID have the crystals included again.

The crystals are available, either new from several manufacturers, - or - from a junker TR-3 or TR-4.

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Ron DiProfio wrote:
> Hello Drake Group,
>
> I have recently bought a TR-4C from an old friend. I'm hoping to put
> this transceiver into service again. The radio generally operates well
> but I noticed that the 28.0 and 29.1 band positions don't seem to work
> (receive). I have also noticed that there are some crystals missing,
> located behind the meter. From the legend on the chassis, it looks
> like the missing crystals are 43.6 and 42.5. Is this the reason some
> of the 10 meter band segments don't work? Are these crystals easily
> obtainable?
>
> I'm new to this group so I hope this question is appropriate.
>
> Ron
> KB1LOU
>
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> Yahoo! Groups Links
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>
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292. RE: [DrakeRadio] TR-4C: 10 Meter Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-25 00:00:21 UTC
From: Walter Milton
Topic: 290 Message: 292

Ron,

Those are the optional crystals for 10 Meters and you cam order them from Jan Crystals. If you do so it will take about three weeks to receive them. Good luck with your TR4C.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Ron DiProfio
Sent: Saturday, March 24, 2007 4:44 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-4C: 10 Meter Problem

Hello Drake Group,

I have recently bought a TR-4C from an old friend. I'm hoping to put this transceiver into service again. The radio generally operates well but I noticed that the 28.0 and 29.1 band positions don't seem to work (receive). I have also noticed that there are some crystals missing, located behind the meter. From the legend on the chassis, it looks like the missing crystals are 43.6 and 42.5. Is this the reason some of the 10 meter band segments don't work? Are these crystals easily obtainable?

I'm new to this group so I hope this question is appropriate.

Ron
KB1LOU

[Non-text portions of this message have been removed]

293. RE: [DrakeRadio] TR-4C: 10 Meter Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-25 00:20:20 UTC
From: Frank Woolfe
Topic: 290 Message: 293

Ron,

I may have a set of 10m Xtals in a TR4 junker if your interested, I have no idea what they would be worth any ideas from the group or make an offer.

Frank VK5MFW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Walter Milton
Sent: Sunday, 25 March 2007 9:30 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] TR-4C: 10 Meter Problem

Ron,

Those are the optional crystals for 10 Meters and you cam order them from Jan Crystals. If you do so it will take about three weeks to receive them. Good luck with your TR4C.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On
Behalf Of Ron DiProfio
Sent: Saturday, March 24, 2007 4:44 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: [DrakeRadio] TR-4C: 10 Meter Problem

Hello Drake Group,

I have recently bought a TR-4C from an old friend. I'm hoping to put this transceiver into service again. The radio generally operates well but I noticed that the 28.0 and 29.1 band positions don't seem to work (receive). I have also noticed that there are some crystals missing, located behind the meter. From the legend on the chassis, it looks like the missing crystals are 43.6 and 42.5. Is this the reason some of the 10 meter band segments don't work? Are these crystals easily obtainable?

I'm new to this group so I hope this question is appropriate.

Ron
KB1LOU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

294. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-25 09:02:59 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 294

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

295. TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-25 17:25:34 UTC
From: Maxxtracks
Topic: 295 Message: 295

The XMTR Gain control is set at full counter clock wise and if I start to turn it up it keys the radio with no mic connected. Also If the mic is connected the mic keys radio with no audio. I checked the mic amp tube and it seemd to be ok. Also the S-meter shows around 9 s units with the gain set at maximum. Any suggestions would be great. I got this unit with the RV4 and finally got the receiver working and calibrated somewhat. Need help with the transmitter now.

Bobby
K 4 J P C

296. Re: [DrakeRadio] TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-25 17:53:17 UTC
From: Garey Barrell
Topic: 295 Message: 296

Bobby -

Have you verified the bias supply voltage? Should be about -60 to -65
in the transceiver.

Can you set the Final idle current to 100 mA?

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Maxxtracks wrote:
> The XMTR Gain control is set at full counter clock wise and if I start
> to turn it up it keys the radio with no mic connected. Also If the mic
> is connected the mic keys radio with no audio. I checked the mic amp
> tube and it seemd to be ok. Also the S-meter shows around 9 s units
> with the gain set at maximum. Any suggestions would be great. I got
> this unit with the RV4 and finally got the receiver working and
> calibrated somewhat. Need help with the transmitter now.
>
> Bobby
> K 4 J P C
>

297. Fw: [drakelist] DRAKE GEAR FOR SALE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-26 04:03:35 UTC
From: Don
Topic: 297 Message: 297

```
----- Original Message -----
From: "Dr. J.R. Sheller" <yooper42@...>
To: <drakelist@...>
Sent: Sunday, March 25, 2007 6:57 PM
Subject: [drakelist] DRAKE GEAR FOR SALE

>
> "Dr. J.R. Sheller" <yooper42@...> made an utterance to the
> drakelist gang
> ---------------------------------------------------------------------
> Hi Fellows:
>
> I am selling my DRAKE COLLECTION. It will be on EBAY in about 3-4
> days. I wanted to give the DRAKE group the first chance at it. I
> have the following:
>
> *** TR7A HIGH SN..NB 1.8 & .5 FILTERS FAN.. MINT COND. JUST
> GONE THRU..ORIG DRAKE BOX
>
> *** ORIGINAL DRAKE SERVICE MANUAL FOR TR7
>
> *** ORIGINAL DRAKE OPERATORS MANUAL FOR TR7A
>
> *** R7A HIGH SN.. ALL FILTERS 1.8 .5 .3 NB...NO AM..MINT
>
> *** ORIGINAL DRAKE R7/A UPDATED SERVICE MANUAL
>
> *** R7A/TR7A TRANSCEIVE INTERFACE CABLE
>
> *** 2 PS7 POWER SUPPLIES WITH FANS.. MINT AND EXCELLENT
>
> *** SET OF DRAKE EXTENDER BOARDS..[W7AVK]
>
> I use COLLINS 380 VFO TUNING KNOBS on all my DRAKE RADIOS.. I
> have the original knobs. The knobs will be included if it all goes
> as a package.
>
> I want to sell it all as one lot.. Based on the last years sales of
> this quality DRAKE gear.. The "selling one at a time" should bring
> in the neighborhood of $2650-2800. I want to sell it as
> package.. $2325 buys it all plus ACTUAL shipping.. $2500 buys it
> all and I pay the shipping and ins for UPS ground.
>
> Hopefully I will have pics by Mon nite. If you are serious ..I
> will send you pics and answer any questions. I will not be selling
```

> 29K R4C with every SHERWOOD MOD...Still the BEST RCV out there.
>
> My PHONE# IS 906-573-2219. I AM LOCATED NEAR WETMORE MI 49895.. I
> am a straight shooter.. 100% FEEDBACK on EBAY on over 200
> transactions.
>
>
> Thanks for looking
>
> Doc Sheller K8RR
>
>
> ---
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ---

298. Re: TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-26 04:07:38 UTC
From: Maxxtracks
Topic: 295 Message: 298

>
> Can you set the Final idle current to 100 mA?
>
> 73, Garey - K4OAH
> Atlanta
>
I will try a few more adjustments sometime this week. I will check the bias setting also to make sure its .1 on the PA meter. I need to check the correct operating proceedures also to make sure I have it set correctly for SSB or AM transmit. I have a guess that the Carrier Balance is wacked out or something to that extent. I see 0% audio and need to check the MIC AMP circuit also. Just seems odd that the S meter acts funny. 1 other question. There is a smaller relay under the rear of the transeiver on the right. I need to look back through the schematic and see what it does. Maybe a keyer relay for CW since the main T/R relay is in the finals cage. I have a complete C Line I run and maybe just need to get more familiar with the TR4/RV4 VFO set up. RUNS VERY HOT AT IDLE. Needs a fan. Thanks neighbor.

Bobby
K 4 J P C
Lilburn GA

299. Re: [DrakeRadio] Re: TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-26 13:39:23 UTC
From: Garey Barrell
Topic: 295 Message: 299

Bobby -

The relay back near the Car Osc is the CW shift. It switches in a capacitor to move the Car Osc up a kHz to put it into the filter passband. The same function is handled by a diode switch in the T-4X.

There's a LOT of tubes in there! A fan is a good idea on a T-4X, even more on the TR-4!!

Of course, if the PA bias is running high, you get a LOT of extra heat. It's a good idea to confirm that the Plate meter is reading accurately at 0.1A with a separate meter also. The meter shunt is a one ohm resistor, and has been known to change value and make the Plate meter read high OR low.....

What's the serial number of your unit? I'm working on a CD for the TR-4 series, and so far have come up with eleven (11) versions of the schematic for the TR-4/C. It helps to have the correct schematic when you're trying to figure out what's going on!!

73, Garey - K4OAH
Atlanta (Duluth)

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Maxxtracks wrote:
>> Can you set the Final idle current to 100 mA?
>>
>> 73, Garey - K4OAH
>> Atlanta
>>
>>
> I will try a few more adjustments sometime this week. I will check
> the bias setting also to make sure its .1 on the PA meter. I need to
> check the correct operating proceedures also to make sure I have it
> set correctly for SSB or AM transmit. I have a guess that the
> Carrier Balance is wacked out or something to that extent. I see 0%
> audio and need to check the MIC AMP circuit also. Just seems odd
> that the S meter acts funny. 1 other question. There is a smaller
> relay under the rear of the transeiver on the right. I need to look
> back through the schematic and see what it does. Maybe a keyer relay
> for CW since the main T/R relay is in the finals cage. I have a
> complete C Line I run and maybe just need to get more familiar with
> the TR4/RV4 VFO set up. RUNS VERY HOT AT IDLE. Needs a fan. Thanks
> neighbor.
>

> Bobby
> K 4 J P C
> Lilburn GA
>
>
>

300. Re: TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-28 04:15:18 UTC
From: Maxxtracks
Topic: 295 Message: 300

> What's the serial number of your unit? I'm working on a CD for
the TR-4
> series, and so far have come up with eleven (11) versions of the
> schematic for the TR-4/C. It helps to have the correct schematic
when
> you're trying to figure out what's going on!!
>
The serial is #29176. I am guessing the date for it is around late 68 to early 1969. There is as odd thing about the vfo but I am not 100% sure what it is. I finally got the transmit audio working on SSB and alligned it for AM also via carrier osc adjustment. Someone got into the TR4 at some point and had no clue to what they were doing. I fined tuned the receiver IF and it brought up all signals. Seems to do well with the 3 6JB6's that came with the unit. Around 180w or so on 80 meters. As usual lower output on 10 meters and lower receive. I did adjust the bias to .1 plate amps. Should I go down to .007? like the C-line says to in that bias adjustment? It says intially set to .1 plate amps then back it down just a little more. The TR4 was up and operational tonight and received good reports with the Shure 444 mic. I need another one now since I borrowed it off my C-line. Ebay mic hunting I go.

ps: S-meter was a quick fix with a IF Amp tube (12ba6) and it now zeros correctly. I need a OA2 tube for the matching RV4. It blows the bulb in it ever time I turn on the VFO.

Bobby
K 4 J P C

301. Re: [DrakeRadio] Re: TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-28 13:54:12 UTC
From: Garey Barrell
Topic: 295 Message: 301

Bobby -

OK. The correct schematic is 28500. Date for 29k would be late 69.

Drake later refined the T-4X idle current up to 0.1A to improve the distortion spec. The TR-4 current probably should also be increased accordingly, but I've never seen a revision from Drake.

The S-Meter bridge compares the plate current of the two IF stages with the plate current of the AF output. S-Meter problems are usually the result of a weak or gassy IF tube.

What color are the two crystal filters in your unit?

73, Garey - K4OAH
Atlanta

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Maxxtracks wrote:
>> What's the serial number of your unit? I'm working on a CD for
>>
> the TR-4
>
>> series, and so far have come up with eleven (11) versions of the
>> schematic for the TR-4/C. It helps to have the correct schematic
>>
> when
>
>> you're trying to figure out what's going on!!
>>
>>
> The serial is #29176. I am guessing the date for it is around late
> 68 to early 1969. There is as odd thing about the vfo but I am not
> 100% sure what it is. I finally got the transmit audio working on
> SSB and alligned it for AM also via carrier osc adjustment. Someone
> got into the TR4 at some point and had no clue to what they were
> doing. I fined tuned the receiver IF and it brought up all signals.
> Seems to do well with the 3 6JB6's that came with the unit. Around
> 180w or so on 80 meters. As usual lower output on 10 meters and
> lower receive. I did adjust the bias to .1 plate amps. Should I go
> down to .007? like the C-line says to in that bias adjustment? It
> says intially set to .1 plate amps then back it down just a little
> more. The TR4 was up and operational tonight and received good
> reports with the Shure 444 mic. I need another one now since I
> borrowed it off my C-line. Ebay mic hunting I go.

>
> ps: S-meter was a quick fix with a IF Amp tube (12ba6) and it now
> zeros correctly. I need a OA2 tube for the matching RV4. It blows
> the bulb in it ever time I turn on the VFO.
>
> Bobby
> K 4 J P C
>
>
>

302. Fw: [Amateur-repairs] YAHOOEY FOOEY!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-29 18:35:07 UTC
From: Don
Topic: 302 Message: 302

This is from Yahooey!

Duplicate Messages and Email Delivery
We're aware of the duplicate message bug that has been affecting groups today and are working to resolve the issue (a side effect of this bug is that some messages are also being delayed). We have actually pushed two fixes already, but we are aware that some groups are still experiencing the
problem and that more needs to be done to fully resolve the issue.

There is, however, one silver lining to this bug. It was the result of our latest system updates intended to improve email delivery speeds. So once the
bugs are resolved, we should see a significant reduction in the time it takes to deliver messages to Yahoo! Groups members.

We will update this blog entry as soon as we have more definitive information on the status of this issue.

Thank you and our apologies for any inconvenience caused by the duplicate messages.

The Yahoo! Groups Team

.

[Non-text portions of this message have been removed]

303. Re: [DrakeRadio] Re: TR4 Issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-30 01:16:27 UTC
From: maxxtracks@netzero.net
Topic: 295 Message: 303

Ok the crystal units in the one TR4 are blue in color. I would give you the name but I don't feel like pulling it back apart but if needed let me know for the names on the crystals. Thats the serial number I gave you before. The crystal color of the the parts TR4 are grey in color. The serial number on it is #23610 and are what appears to be Bedford Co. 9m crystals and have a metal unpainted finish. If you need parts let me know.
Bobby
K 4 J P C
The working TR4 is on the air tonight. I need a OA2 tube for the VFO.

[Non-text portions of this message have been removed]

304. Switchcraft 0.206 inch microphone plug FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-03-31 17:08:53 UTC
From: Ken Simpson, W8EK
Topic: 304 Message: 304

For Sale:

I found a Switchcraft 0.206 inch, 3 conductor plug.
This is the original Switchcraft that was used on many of the
Drake transmitters as the microphone plug. It is the right angle
type, just like what was on the mics from Drake, as best I can tell.

This one has screw terminals, and appears that it is unused,
although with screw terminals it is hard to tell for sure. I suppose
it is possible that I used it once, many years ago, but it does not
look like it.

$10 plus shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

305. Fw: [drakelist] First Wednesday CCA AM Night April 4th!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-03 03:41:10 UTC
From: Don
Topic: 305 Message: 305

```
----- Original Message -----
From: "Larry WA9VRH" <wa9vrh@...>
To: "Drake List" <drakelist@...>
Sent: Monday, April 02, 2007 5:52 PM
Subject: [drakelist] First Wednesday CCA AM Night April 4th!

>
> "Larry WA9VRH" <wa9vrh@...> made an utterance to the drakelist
> gang
> ---------------------------------------------------------------------
> FIRST WEDNESDAY AM NIGHT!!! Sponsored by the Collins Collectors
> Association.
>
>
> Wednesday April 4th 2007 on 3880 kcs at 7:00 PM local East Coast
> time marks
> the start of the latest
>
> chapter of First Wednesday AM Night, drawing hundreds of vintage
> stations
> from across the country.
>
>
> The event is anchored by a "tall ship" AM station in each time
> zone. The
> East Coast and Central sections run
>
> for 90 minutes in response to the tremendous participation in those
> time
> zones. The remaining time zones
>
> will be an hour. We encourage stations to check-in on AM using
> Collins and
> other AM transmitters, new and
>
> old. It's an opportunity to revel in this nostalgic mode, enjoy
> giving
> vintage equipment a "run," and sharing
>
> some storytelling about classic vacuum tube homebrew and commercial
> designs.
> Typically more than a
>
> hundred stations take part in the evening's coast-to-coast AM
> event; by the
```

> time it concludes at 10:00 PM
>
> Local PST.
>
>
> LISTEN for the following anchors and stop by to say hello, won't
> you? You
> don't have to be running Collins
>
> or vintage gear to be welcomed into the group.
>
>
> 7:00 PM-8:30 PM Local East Coast Time Anchor: Bob W0YVA
>
> 7:30 PM-9:00 PM Local Central Time Anchor: Jim W0NKL
>
>
> 8:00 PM-9:00 PM Local Mountain Time Anchor: Possibly Chuck in
> Cheyenne Chuck
> would you please email me wa9vrh@...
>
>
> 8:00 PM-9:00 PM Local West Coast Time Anchor: open looking to fill
> if anyone
> is willing to help please
>
> contact me. Tnx de Larry WA9VRH
>
>
>
>
>
> comments please to wa9vrh@...
>
>
> --
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> --

306. WTB: Vibroplex Brass Racer-with built-in keyer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-04 16:28:39 UTC
From: ae2jl
Topic: 306 Message: 306

Hi- Looking to purchase a Vibroplex Brass Racer, Model EK-1, the unit with built-in keyer. Tnx, 73- Joel AE2JL

307. Re:WTB: Vibroplex Brass Racer-with built-in keyer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-05 13:37:58 UTC
From: n0tu/Steve
Topic: 306 Message: 307

Joel, I've got the remains of the keyer PC board and I think it still has a good(?) Curtis IC on it. So if you find a B-racer w/o keyer and need one lemme know. I'll donate it to the cause for the postage.
Steve/n0tu

308. RE: [DrakeRadio] Re:WTB: Vibroplex Brass Racer-with built-in keyer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-05 13:50:09 UTC
From: Joel Levy
Topic: 306 Message: 308

Tnx, Steve- 73 Joel /ae2jl
-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On Behalf Of n0tu/Steve
Sent: Thursday, April 05, 2007 9:38 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re:WTB: Vibroplex Brass Racer-with built-in keyer

Joel, I've got the remains of the keyer PC board and I think it still has a good(?) Curtis IC on it. So if you find a B-racer w/o keyer and need one lemme know. I'll donate it to the cause for the postage.
Steve/n0tu

[Non-text portions of this message have been removed]

309. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-08 08:24:45 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 309

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

310. Fw: [drakelist] AC4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-19 12:37:22 UTC
From: Don
Topic: 310 Message: 310

```
----- Original Message -----
From: "Michael N?XY" <michael72@...>
To: <drakelist@...>
Sent: Wednesday, April 18, 2007 9:36 PM
Subject: [drakelist] AC4 for sale

> Drake ac4 works fine looks good.
> $75 plus shipping.
>
> reply to michael72@...
> postal money order, cash, or check if I know you
> Thanks,
> Michael
> N0XY
> ------------------------------------------------------------------------
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ------------------------------------------------------------------------
```

311. Fw: [drakelist] R4B for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-19 12:37:40 UTC
From: Don
Topic: 311 Message: 311

```
----- Original Message -----
From: "Michael N?XY" <michael72@...>
To: <drakelist@...>
Sent: Wednesday, April 18, 2007 9:16 PM
Subject: [drakelist] R4B for sale

> Sensitive, clean, chassis looks great. Has tiny pits here and
> there, but is shiney.
>
> Buyer can choose extra SW and ham band crystals at $5 each from my
> selection.
>
> $250 plus shipping.
>
> I also have a Drake 2C original manual for $20 shipped conus.
>
> Thanks, Michael
>
> reply to michael72@...
> postal money order, cash, or check if I know you
> Thanks,
> Michael
> N0XY
> ------------------------------------------------------------------------
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ------------------------------------------------------------------------
```

312. Fw: [drakelist] 2 sets of drake stickers and bumper feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-19 12:38:11 UTC
From: Don
Topic: 312 Message: 312

```
----- Original Message -----
From: "Michael N?XY" <michael72@...>
To: <drakelist@...>
Sent: Wednesday, April 18, 2007 9:49 PM
Subject: [drakelist] 2 sets of drake stickers and bumper feet

> I have 2 compltes sets of the little yellow stickers that Drake
> sent out to mark your cables. Also included, and still stapled from
> the factory are 4 of the ac4 feet in a little brown envelope.
>
> $10
>
> reply to michael72@...
> postal money order, cash, or check if I know you
> Thanks,
> Michael
> N0XY
> ------------------------------------------------------------------------
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ------------------------------------------------------------------------
```

314. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-22 08:00:29 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 314

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

315. Fw: [drakelist] Raffle of RV75, 1-A speaker, CW73 and B-1000

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-22 22:39:29 UTC
From: Don
Topic: 315 Message: 315

```
----- Original Message -----
From: "Sindre Torp" <sindtorp@...>
To: <drakelist@...>
Sent: Sunday, April 22, 2007 3:33 PM
Subject: [drakelist] Raffle of RV75, 1-A speaker, CW73 and B-1000

>
> "Sindre Torp" <sindtorp@...> made an utterance to the
> drakelist gang
> ------------------------------------------------------------------------
> Hi,
>
> The list of tickets sold has been updated, but there are still
> plenty of tickets left.
> Please take a look at
> http://home.online.no/~sindtorp/raffle2007.htm
>
> Thanks for your support!
>
> 73's
> Sindre, LA6OP
> ------------------------------------------------------------------------
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ------------------------------------------------------------------------
```

316. Advice for a new Tower

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-30 00:44:12 UTC
From: Don
Topic: 316 Message: 316

While it's still a little bit up in the air, I very well may have some money
soon to put towards a new, and first, tower. :)
I really do not see myself having the funds to replace or update it for a very, very,
long time. So I really would like to get the best, most durable, safe, etc tower that I
can.
looking to go 50 foot, my small lot makes me uncomfortable with going any taller. Should
there be a problem and the tower fall 50' will allow it to clear the neighbors with plenty
of
room to spare.
Also, we often see 50+ mph winds wiht gust at 70+ , I am sure it can get worse than that,
I just haven't seen it since i have lived here in Idaho.
No, I haven't settled on the beam to put on it yet, though eventually I would like it
to have a 14-30mhz LogP or such. this will also be a support for my low band dipoles, 2mtr,
atv, ect.
I have been looking very hard at AN towers, but I would welcome any comments on any of the
currently available towers, free standing is ok, but not necessary, not sure that I really
trust a
free standing tower with the winds we get here. and I dont think the alum towers i have
seen
so far are really as stout has I would want, and still too expensive for them.
Last, I would hope to keep total cost at or below $3,500. there is some flex to that
figure,
just my goal. if i can keep the cost down enough maybe i get a palstar or o ahead and look
the antenna purchase as well.

Thanks in advance,
Don
AD7LL

[Non-text portions of this message have been removed]

317. Drake TR-4Cw Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-30 02:02:08 UTC
From: Peter
Topic: 317 Message: 317

Hi all, new to list & hobby. After passing my test a buddy gave me a Drake TR-4Cw. I bought a reprint manual and have stared at the radio a bit. My question is about the crystals and selection. Inside the transceiver are 6 crystals. One is centrally located in the radio chassis and is about twice the height of the others. It is an NEL 11/76 NE-13E 100mhz. The other 5 are located in a row behind the face plate of the unit all together in a row. Working from left to right from the operators perspective I have; Erie 21.5 mhz 6/76, Erie 35.5 mhz 6/76, Tedford 42.5 mhz T/R 4C 2-77, Erie 43.0 mhz 10/76, Tedford 43.6 mhz T/R 4C 2-77. I assume the 2-77 and 10/76 etc numbers on each are the date of mfg. The radio is a 1976 model.

How do the crystals effect the ranges of frequencies? A simple explanation would probably be best for me as I am new at this. What crstals do I want? I have read that some Drake radios can receive WARC bands. Is this possible through the crystals or some other methods. Any crystal info appreciated. 73 & thanks, Peter KC2RBX

318. RE: [DrakeRadio] Drake TR-4Cw Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-30 02:07:30 UTC
From: Walter Milton
Topic: 317 Message: 318

Peter,

The real tall crystal is for the calibration marker. You will here it at every 100 KHZ on the VFO dial. The other five crystals are for the bands, 80 M; 40 M; 20 M; 15 M and the three 500 KHZ segment of 10 M. Look at your manual and it should tell you how to set up for the band you want to transmit on. If you have any other questions please post them. Welcome to the group!!

If you need help with your TR-4CW you can contact me off line.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Peter
Sent: Sunday, April 29, 2007 10:02 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake TR-4Cw Crystals

Hi all, new to list & hobby. After passing my test a buddy gave me a Drake TR-4Cw. I bought a reprint manual and have stared at the radio a bit. My question is about the crystals and selection. Inside the transceiver are 6 crystals. One is centrally located in the radio chassis and is about twice the height of the others. It is an NEL 11/76 NE-13E 100mhz. The other 5 are located in a row behind the face plate of the unit all together in a row. Working from left to right from the operators perspective I have; Erie 21.5 mhz 6/76, Erie 35.5 mhz 6/76, Tedford 42.5 mhz T/R 4C 2-77, Erie 43.0 mhz 10/76, Tedford 43.6 mhz T/R 4C 2-77. I assume the 2-77 and 10/76 etc numbers on each are the date of mfg. The radio is a 1976 model.

How do the crystals effect the ranges of frequencies? A simple explanation would probably be best for me as I am new at this. What crstals do I want? I have read that some Drake radios can receive WARC bands. Is this possible through the crystals or some other methods. Any crystal info appreciated. 73 & thanks, Peter KC2RBX

[Non-text portions of this message have been removed]

319. Re: [DrakeRadio] Drake TR-4Cw Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-04-30 05:37:16 UTC
From: Larry Taft
Topic: 317 Message: 319

Actually there are crystals in the front row for 40, 15 and the three
segments of 10 meters. The TR-4s use a 9 Mhz IF frequency and the VFO
covers 4.9 to 5.5 MHz. The VFO is subtracted from the 9 MHZ IF to get
80 meters and the VFO is added to the IF to get 20 meters. Notice that
20 meters tunes the reverse of the other bands because of the addition
process. For the other bands there is an additional mixer circuit using
the crystals in the front row. For 40 the xtal is 21.4 Mhz.
The VFO is subtracted to give a intermediate frequency in the 16 MHz
range and then the 9 MHz IF is subtracted to give the 7.0 Mhz range.

Similar numbers work for the 15 and 10 meter bands.

Tuning the WARC bands would require major surgery on the TR-4 series.

The R-4/T-4 Twins series can tune the WARC bands with additional
crystals as the IF is 5645 Mhz, every band requires a crystal and the
VFO tunes in the same direction for all bands.

Good radio, you'll have a lot of fun with it.

73, Larry K2LT
drakerepair.com 800-687-9161

Walter Milton wrote:
> Peter,
>
> The real tall crystal is for the calibration marker. You will here it at
> every 100 KHZ on the VFO dial. The other five crystals are for the bands,
> 80 M; 40 M; 20 M; 15 M and the three 500 KHZ segment of 10 M. Look at your
> manual and it should tell you how to set up for the band you want to
> transmit on. If you have any other questions please post them. Welcome to
> the group!!
>
> If you need help with your TR-4CW you can contact me off line.
>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
>
>
> -----
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Peter

> Sent: Sunday, April 29, 2007 10:02 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Drake TR-4Cw Crystals
>
>
>
> Hi all, new to list & hobby. After passing my test a buddy gave me a
> Drake TR-4Cw. I bought a reprint manual and have stared at the radio a
> bit. My question is about the crystals and selection. Inside the
> transceiver are 6 crystals. One is centrally located in the radio
> chassis and is about twice the height of the others. It is an NEL
> 11/76 NE-13E 100mhz. The other 5 are located in a row behind the face
> plate of the unit all together in a row. Working from left to right
> from the operators perspective I have; Erie 21.5 mhz 6/76, Erie 35.5
> mhz 6/76, Tedford 42.5 mhz T/R 4C 2-77, Erie 43.0 mhz 10/76, Tedford
> 43.6 mhz T/R 4C 2-77. I assume the 2-77 and 10/76 etc numbers on each
> are the date of mfg. The radio is a 1976 model.
>
> How do the crystals effect the ranges of frequencies? A simple
> explanation would probably be best for me as I am new at this. What
> crstals do I want? I have read that some Drake radios can receive WARC
> bands. Is this possible through the crystals or some other methods.
> Any crystal info appreciated. 73 & thanks, Peter KC2RBX
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
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>
>
>
>

320. FS: Drake 2B Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-01 18:56:24 UTC
From: J. Morris Prosser
Topic: 320 Message: 320

For sale is a Drake 2B receiver, serial No. 4655. Working on all the normal bands, including
all 3 10M segments. Crystals installed are 11.0, 11.5, 18.0, 24.5, 25.0, and 25.6. All tubes
have been tested. Appearance is good, with a little wear showing around the edges of the cabinet and some of the usual dirty coating on the chassis, no rust. Manual and 2 CD-ROM's included. Photos available on request. Asking $120 plus shipping from Medford, OR 97504. Not packed yet, but estimate about 20 lbs.

Thanks for looking,

Morris

321. Re: FS: Drake 2B Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-01 19:25:16 UTC
From: ae2jl
Topic: 320 Message: 321

-Morris, I am interested.How we you like to be compensated? I am in NJ- ZIP 07950. If possible I would like it shipped via FedEx Ground. 73, Joel AE2JL -- In DrakeRadio@yahoogroups.com, "J. Morris Prosser" <jmprosserrvm@...> wrote:
>
> For sale is a Drake 2B receiver, serial No. 4655. Working on all the normal bands, including
> all 3 10M segments. Crystals installed are 11.0, 11.5, 18.0, 24.5, 25.0, and 25.6. All tubes
> have been tested. Appearance is good, with a little wear showing around the edges of the
> cabinet and some of the usual dirty coating on the chassis, no rust. Manual and 2 CD-ROM's
> included. Photos available on request. Asking $120 plus shipping from Medford, OR 97504.
> Not packed yet, but estimate about 20 lbs.
>
> Thanks for looking,
>
> Morris
>

322. Re: [DrakeRadio] Re: FS: Drake 2B Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-01 20:16:53 UTC
From: John M. Prosser
Topic: 320 Message: 322

I prefer PayPal. I could ship by FedEx Ground if that is your
preference.

Morris

On May 1, 2007, at 12:25 PM, ae2jl wrote:

> -Morris, I am interested.How we you like to be compensated? I am in
> NJ- ZIP 07950. If possible I would like it shipped via FedEx Ground.
> 73, Joel AE2JL -- In DrakeRadio@yahoogroups.com, "J. Morris Prosser"
> <jmprosserrvm@...> wrote:

323. RE: [DrakeRadio] Re: FS: Drake 2B Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-02 08:49:27 UTC
From: Joel Levy
Topic: 320 Message: 323

PAY PAL is FB with me. Do you want me to estimate shipping charges via FedEx Gnd or will you? Joel
-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On Behalf Of John M. Prosser
Sent: Tuesday, May 01, 2007 4:17 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: FS: Drake 2B Receiver

I prefer PayPal. I could ship by FedEx Ground if that is your preference.

Morris

On May 1, 2007, at 12:25 PM, ae2jl wrote:

> -Morris, I am interested.How we you like to be compensated? I am in
> NJ- ZIP 07950. If possible I would like it shipped via FedEx Ground.
> 73, Joel AE2JL -- In DrakeRadio@yahoogroups.com, "J. Morris Prosser"
> <jmprosserrvm@...> wrote:

[Non-text portions of this message have been removed]

324. Fw: [drakelist] Drake items for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-04 14:25:36 UTC
From: Don
Topic: 324 Message: 324

----- Original Message -----
From: Kevin Gray
To: drakelist@...
Cc: k8su@...
Sent: Thursday, May 03, 2007 8:55 PM
Subject: [drakelist] Drake items for sale

Drake DC4 Power Supply. Bought this and NEVER used it. Have not tested in any way. $47

Drake R4C Noise Blanker $139

Drake R4C Filters 500 Hz $49

Drake R4C Crystal 1.5 KHz $49

Drake C Line Cabinet. In nice shape. Could be a great cabinet for a refurb job. Will need to be professionally painted to be mint. $50

Drake L4B and Supply Serial Number 38XX One light scratch on the face above the tune knob. $700

MS 4 Speaker $59

Drake AC3 Supply $79. May need caps.

Thanks,

Kevin

K8su@...

[Non-text portions of this message have been removed]

325. Original Drake Manuals FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-04 14:27:42 UTC
From: Ken Simpson, W8EK
Topic: 325 Message: 325

Original Drake Manuals for sale:

Drake TR-33 C transceiver
Instruction manual for the 2 meter rig.
It even includes a warranty card, welcome letter,
and 1978 spare parts price list.
Close to new condition. $10

Drake AA-10 power amplifier
Instruction manual for the 2 meter amp.
Close to new condition. $6

E-tek FR-4 digital readout for Drake Twins
Not a Drake manual, but for Drake gear. $4

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

326. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-06 07:51:06 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 326

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

327. WTT: SPR-4/MS-4 for JRC Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-06 14:12:45 UTC
From: ae2jl
Topic: 327 Message: 327

I have a very nice SPR-4 with extra xtals that has just been serviced and is in excellent operating condition. This unit is also in very nice original condition(hardware/paint). It comes with a MS-4 speaker and an unused copy of the operating manual. I am looking to trade for a JRC receiver. What do you have? 73, Joel AE2JL

328. 30/17m T4X xtal & 6EV7s?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-09 14:00:39 UTC
From: n0tu/Steve
Topic: 328 Message: 328

I'm looking for a 30m xtal (20.8MHz) and 17m (29.1MHz) for my T4X ...any one have an extra they'd sell me?

Also a source for 6EV7s??

Tks Steve/n0tu

[Non-text portions of this message have been removed]

329. Fw: [drakelist] 30/17m T4X xtal & 6EV7s?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-10 02:15:15 UTC
From: Don
Topic: 329 Message: 329

```
----- Original Message -----
From: "Robert Ladden" <rclearn@...>
To: <drakelist@...>
Sent: Wednesday, May 09, 2007 5:02 PM
Subject: Re: [drakelist] 30/17m T4X xtal & 6EV7s?

>
> Robert Ladden <rclearn@...> made an utterance to the
> drakelist gang
> ---------------------------------------------------------------------
> Steve,
>
> I got the correct 30m xtal (20.8) new from International Crystal
> for $20.00. All I could find on the used market was the incorrect
> crystal (21.1). You might as well get the 17m from them too because
> of the $10.00 shipping per order.
>
> I got a 6EV7 from tubdepot.com.
>
> 73, Bob WW3QB
>
>
> At 10:00 AM 5/9/2007, you wrote:
>>I'm looking for a 30m xtal (20.8MHz) and 17m (29.1MHz) for my T4X
>>...any one have an extra they'd sell me?
>>
>>Also a source for 6EV7s??
>>
>>Tks Steve/n0tu
>
> ---------------------------------------------------------------------
> Submissions: drakelist@...
> Unsubscribe: majordomo@... - unsubscribe
> drakelist in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> ---------------------------------------------------------------------
```

330. AGC problem with R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-10 20:28:24 UTC
From: Mike-K5VSE
Topic: 330 Message: 330

Hello to all the Drake experts out here.

I have a strange problem with one of my R-4C receivers. The AGC works just fine in the slow position. But if I move it to medium or fast, it progressivly gets more distorted. The audio is normal in the slow position on all modes, but there is no way to copy at all in the fast position. It's sounds like it might be motor boating, for you old timers that remember that far back. And yes, I fit that catagory well!

Has anyone come across this problem in the past? If so, I would appreciate your input as to where to begin looking for it. I have checked/replaced tubes, checked voltages etc.. Everything seems to be within 10% or so.

Thanks in advance for any responses.

73,
Mike/K5VSE

331. Re: AGC problem with R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-10 21:14:10 UTC
From: f4ere
Topic: 330 Message: 331

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Hello to all the Drake experts out here.
>
> I have a strange problem with one of my R-4C receivers. The AGC
works
> just fine in the slow position. But if I move it to medium or fast,
it
> progressivly gets more distorted. The audio is normal in the slow
> position on all modes, but there is no way to copy at all in the
fast
> position. It's sounds like it might be motor boating, for you old
> timers that remember that far back. And yes, I fit that catagory
well!
>
> Has anyone come across this problem in the past? If so, I would
> appreciate your input as to where to begin looking for it. I have
> checked/replaced tubes, checked voltages etc.. Everything seems to
be
> within 10% or so.
>
> Thanks in advance for any responses.
>
> 73,
> Mike/K5VSE
>
this problem persist with or whithout the noise blanker ?

332. Re: [DrakeRadio] Re: AGC problem with R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-10 21:19:51 UTC
From: K5VSE
Topic: 330 Message: 332

There is no noise blanker installed.

Thanks for the response!

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

333. WTB: DRAKE R8 or R8A Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-11 21:41:11 UTC
From: ae2jl
Topic: 333 Message: 333

Hi,
I am interested in purchasing a used R8 or R8A HF general coverage rcvr. Does anybody have one available? 73, Joel AE2JL

334. Re: [DrakeRadio] AGC problem with R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-12 19:30:53 UTC
From: Garey Barrell
Topic: 330 Message: 334

Mike -

Check the Bias supply (-70VDC). Bridge C162 with a good electrolytic cap.

73, Garey - K4OAH
Glen Allen

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> Hello to all the Drake experts out here.
>
> I have a strange problem with one of my R-4C receivers. The AGC works
> just fine in the slow position. But if I move it to medium or fast, it
> progressivly gets more distorted. The audio is normal in the slow
> position on all modes, but there is no way to copy at all in the fast
> position. It's sounds like it might be motor boating, for you old
> timers that remember that far back. And yes, I fit that catagory well!
>
> Has anyone come across this problem in the past? If so, I would
> appreciate your input as to where to begin looking for it. I have
> checked/replaced tubes, checked voltages etc.. Everything seems to be
> within 10% or so.
>
> Thanks in advance for any responses.
>
> 73,
> Mike/K5VSE
>
>

335. Re: [DrakeRadio] AGC problem with R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-13 01:24:18 UTC
From: K5VSE
Topic: 330 Message: 335

Thanks Glen,

I'll give it a try tomorrow. I never thought to look at the bias supply.
Actually I've never seen that particular cap go bad yet, after repair
several of these Drake receivers.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2006
"In God We Trust"

[Non-text portions of this message have been removed]

336. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-20 07:54:06 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 336

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

337. FS: DRAKE SPR-4/MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-20 15:42:33 UTC
From: ae2jl
Topic: 337 Message: 337

I am selling my SPR-4/MS-4 setup. The SPR-4 is very nice cosmetically and works very well. All original hardware/finish, the SPR-4 has 11 xtals installed and comes with manual copy. The MS-4 is also very nice, no scratches/nicks. Price, $325 delivered to the CONUS.Tnx for reading.73,Joel

338. wanted R8 front feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-22 23:17:51 UTC
From: Martin
Topic: 338 Message: 338

Hello to all
still looking for a R8 front feet.
Tnx for your help.
Martin
VE2EDK/VA2ZO
missed BS7H snif! snif!

339. WTB anode connectors, original for Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-26 00:05:58 UTC
From: Mike-K5VSE
Topic: 339 Message: 339

Hi to all on the list!

This will probably be like hunting hens teeth, but I am in need of two original anode connectors/heat sinks for the 3-500Z tubes in an old Drake L-4B. These are the ones with the vertical fins, "NOT" the horizontal type. I purchased the amp with no tubes, connectors, or chimneys. I was able to get the tapered chimneys from Ameritron, but the only type anode connectors I was able to locate have the horizontal fins that Eimac used for many years. Drake uses some with vertical fins, and I am trying to make this thing as original as I can. So, I am only interested in the original Drake production type that came with the amp.
Any help will be greatly appreciated.

Thanks to all!

Mike/K5VSE

http://members.tripod.com/~sjsharks/index.html

340. Re: [DrakeRadio] WTB anode connectors, original for Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-27 17:43:03 UTC
From: Bill Frost
Topic: 339 Message: 340

Hello Mike,

if you haven't found the 3-500Z heat sinks, I have a
couple new ones. $25.00 and I'll cover the shipping.

73, Bill
--- Mike-K5VSE <k5vse@...> wrote:

> Hi to all on the list!
>
> This will probably be like hunting hens teeth, but I
> am in need of two
> original anode connectors/heat sinks for the 3-500Z
> tubes in an old
> Drake L-4B. These are the ones with the vertical
> fins, "NOT" the
> horizontal type. I purchased the amp with no tubes,
> connectors, or
> chimneys. I was able to get the tapered chimneys
> from Ameritron, but
> the only type anode connectors I was able to locate
> have the
> horizontal fins that Eimac used for many years.
> Drake uses some with
> vertical fins, and I am trying to make this thing as
> original as I
> can. So, I am only interested in the original Drake
> production type
> that came with the amp.
> Any help will be greatly appreciated.
>
> Thanks to all!
>
> Mike/K5VSE
>
> http://members.tripod.com/~sjsharks/index.html
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

_____Get the Yahoo! toolbar and be alerted to new email wherever you're surfing.
http://new.toolbar.yahoo.com/toolbar/features/mail/index.php

341. NOISE FAN IN L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-27 20:17:31 UTC
From: Walter Milton
Topic: 341 Message: 341

All,

The fan in the L-4B is starting to make noise as if it is rubbing against something. While I have the RF deck open is there any recommended oil for the fan? I have a light gun oil and a can of 3-in-1 oil, are any of these any good? I am open to any and all suggestions.

Thanks,
Walt. , KA2NJF
Psalm 1
A child of the Living God

[Non-text portions of this message have been removed]

342. RE: [DrakeRadio] WTB anode connectors, original for Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-27 20:47:09 UTC
From: John Page
Topic: 339 Message: 342

Speaking of L4's. I think I have the oldest L4 in existence. It is serial #003. But who knows, #1 and #2 may still be out there. I have had this L4 for over 20 years and it has the Eimac type anode caps. Doubt they were ever changed. I mean, why would you? So did Drake use both kinds? I think this one belonged to QRP Mikey. So who knows. Some of you know who QRP Mikey is, I am sure. John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)To: DrakeRadio@yahoogroups.comFrom: wd8dfp@...: Sun, 27 May 2007 10:43:03 -0700Subject: Re: [DrakeRadio] WTB anode connectors, original for Drake L-4B

Hello Mike,

if you haven't found the 3-500Z heat sinks, I have a
couple new ones. $25.00 and I'll cover the shipping.

73, Bill
--- Mike-K5VSE <k5vse@...> wrote:

> Hi to all on the list!
>
> This will probably be like hunting hens teeth, but I
> am in need of two
> original anode connectors/heat sinks for the 3-500Z
> tubes in an old
> Drake L-4B. These are the ones with the vertical
> fins, "NOT" the
> horizontal type. I purchased the amp with no tubes,
> connectors, or
> chimneys. I was able to get the tapered chimneys
> from Ameritron, but
> the only type anode connectors I was able to locate
> have the
> horizontal fins that Eimac used for many years.
> Drake uses some with
> vertical fins, and I am trying to make this thing as
> original as I
> can. So, I am only interested in the original Drake
> production type
> that came with the amp.
> Any help will be greatly appreciated.
>
> Thanks to all!
>
> Mike/K5VSE
>
> http://members.tripod.com/~sjsharks/index.html
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>

_____Get the Yahoo! toolbar and be alerted to new email wherever you're surfing.
http://new.toolbar.yahoo.com/toolbar/features/mail/index.php

_____
Create the ultimate e-mail address book. Import your contacts to Windows Live Hotmail.
www.windowslive-hotmail.com/learnmore/managemail2.html?locale=en-us&ocid=TXT_TAGLM_HMWL_reten_impcont_0507

[Non-text portions of this message have been removed]

343. RE: [DrakeRadio] NOISE FAN IN L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-05-27 20:48:32 UTC
From: John Page
Topic: 341 Message: 343

I have used 3 in 1 oil in my L4 for 20 years. It is still very quiteJohn Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)To: DrakeRadio@yahoogroups.comFrom: wmilton@...: Sun, 27 May 2007
16:17:31 -0400Subject: [DrakeRadio] NOISE FAN IN L-4B

All,

The fan in the L-4B is starting to make noise as if it is rubbing against
something. While I have the RF deck open is there any recommended oil for
the fan? I have a light gun oil and a can of 3-in-1 oil, are any of these
any good? I am open to any and all suggestions.

Thanks,
Walt. , KA2NJF
Psalm 1
A child of the Living God

[Non-text portions of this message have been removed]

_____
Download Messenger. Start an i?m conversation. Support a cause. Join now.
http://im.live.com/messenger/im/home/?source=TAGWL_MAY07

[Non-text portions of this message have been removed]

344. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-03 07:48:10 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 344

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

345. Field Day

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-07 13:30:57 UTC
From: donfrasher
Topic: 345 Message: 345

whats everyones FD plans this year?
with or without a Drake.
I understand not wanting to risk one with the hazards
of field operation.
I'll be using a ts-440, and setup at Lake Walcott
here in south-central Idaho.
will be doind some psk31 and maybe cw. mostly ssb
no amps, wire dipoles. and I am hoping that I will be able to go the
full 24hr.
we are a small club here, so while there will be others come by, but
so far only one other ham is really doing much to gear up and support
it here. xyl's will be with us which is always nice !

Don
AD7LL

346. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-09 14:41:42 UTC
From: Garey Barrell
Topic: 99 Message: 346

Unique supplemental service information CDs available for the Drake B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Atlanta

347. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-17 07:44:05 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 347

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

348. SPR-4 FRECUENCY DIAL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-18 01:13:47 UTC
From: Virgilio Malagon
Topic: 348 Message: 348

FIRST, I WILL LIKE TO EXPRESS MY SINCERE GRATITUDE TO THE MODERATOR FOR TAKING ME IN AS A MEMBER OF THIS GROUP.

I NEED, IN ORDER TO REPAIR MY RADIO, THE PLASTIC FRECUENCY DIAL WHERE THE CRYSTALS FRECUENCY STICKERS ARE PASTED IN.THIS IS OF HIGHLY IMPORTANCE TO ME. I WILL APPRECIATE ANY HELP ON THIS.
73'S FROM HI8HH

349. Fw: [drakelist] Drake Nets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-19 18:40:04 UTC
From: Don
Topic: 349 Message: 349

----- Original Message -----
From: k9sqg@...
To: drakelist@...
Sent: Tuesday, June 19, 2007 6:25 AM
Subject: [drakelist] Drake Nets

Fellow enthusiasts,

You are cordially invited to check into the Drake and Antique Tube Gear Net, Tuesday evenings, 8 pm Eastern time, on 3865.

Also, please join the Drake Technical Net, Sundays, 7238 +/-, at 2000 Zulu, or 4 pm Eastern time this season of the year.

73,

Evan, K9SQG

[Non-text portions of this message have been removed]

350. Supplemental info on T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-30 16:16:55 UTC
From: Ted Bruce KX4OM
Topic: 350 Message: 350

The manual indicates that there was additional instructions available
on request from the company if the transmitter alignment in the manual
didn't do the job. Anyone know where this information might be stashed?

Tnx,
Ted KX4OM

351. Re: [DrakeRadio] Supplemental info on T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-06-30 18:02:54 UTC
From: Garey Barrell
Topic: 350 Message: 351

Ted -

According to Bill Frost, this never existed. There might have been something that an individual tech put together, but nothing was ever "official".

Unless someone has been "fixing" it, the procedure in the manual is all you need. If it's really been screwed up, (as in someone "tightening up all the loose screws" in those pesky trimmer caps and cans,) all you need to do is ensure that you are peaking on the "right" peak if there's more than one.

Are you having a specific problem?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Ted Bruce KX4OM wrote:
> The manual indicates that there was additional instructions available
> on request from the company if the transmitter alignment in the manual
> didn't do the job. Anyone know where this information might be stashed?
>
> Tnx,
> Ted KX4OM
>
>
>
>

352. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-01 07:41:49 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 352

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

353. WTB: Vibroplex Brass Racer w/built-in keyer(EK-1), National SW-54 Rcvr.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-01 14:36:32 UTC
From: ae2jl
Topic: 353 Message: 353

Hello,

The listing says it all. If you have one of these available pls respond w/ condx, price. Tnx, 73, Joel AE2JL

354. WTB: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-02 13:36:39 UTC
From: ae2jl
Topic: 354 Message: 354

Hi Guys,

I need an MS-4 speaker. If you have one available, pls contact. Nothing fancy, as long as it works. 73, Joel AE2JL

355. RE: [DrakeRadio] WTB: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-03 00:13:56 UTC
From: George- K4GM
Topic: 354 Message: 355

I have several available. Do you want the cheapest even if the cabinet has a slight dent in it?? I can send a picture.

George K4GM

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ae2jl
Sent: Monday, July 02, 2007 9:37 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] WTB: MS-4 Speaker

Hi Guys,

I need an MS-4 speaker. If you have one available, pls contact. Nothing fancy, as long as it works. 73, Joel AE2JL

[Non-text portions of this message have been removed]

356. RE: [DrakeRadio] WTB: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-03 00:27:24 UTC
From: Joel Levy
Topic: 354 Message: 356

Yes, pls let me see what you have. 73, Joel
-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On
Behalf Of George- K4GM
Sent: Monday, July 02, 2007 8:14 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] WTB: MS-4 Speaker

I have several available. Do you want the cheapest even if the cabinet has
a slight dent in it?? I can send a picture.

George K4GM

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of ae2jl
Sent: Monday, July 02, 2007 9:37 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] WTB: MS-4 Speaker

Hi Guys,

I need an MS-4 speaker. If you have one available, pls contact. Nothing
fancy, as long as it works. 73, Joel AE2JL

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

357. RE: [DrakeRadio] WTB: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-04 10:13:04 UTC
From: Joel Levy
Topic: 354 Message: 357

Hi George,

I hope you haven't forgotten me. I am interested in at least one, perhaps two of ur least expensive MS-4's. 73, Joel AE2JL
-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On Behalf Of George- K4GM
Sent: Monday, July 02, 2007 8:14 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] WTB: MS-4 Speaker

I have several available. Do you want the cheapest even if the cabinet has a slight dent in it?? I can send a picture.

George K4GM

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ae2jl
Sent: Monday, July 02, 2007 9:37 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] WTB: MS-4 Speaker

Hi Guys,

I need an MS-4 speaker. If you have one available, pls contact. Nothing fancy, as long as it works. 73, Joel AE2JL

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

358. Fw: [drakelist] Drake TR-3 & AC-3 For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-06 01:08:48 UTC
From: Don
Topic: 358 Message: 358

----- Original Message -----
From: cfb@...
To: drakelist@...
Sent: Thursday, July 05, 2007 6:27 PM
Subject: [drakelist] Drake TR-3 & AC-3 For Sale

Drake TR-3 & AC-3

$250

Price is low because I bought this from a ham who never got around to the restoration project, and neither have I!

[Non-text portions of this message have been removed]

359. Fw: [drakelist] Drake Refurbishing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-08 16:47:40 UTC
From: Don
Topic: 359 Message: 359

If you haven't checked out this website yet yur missing out on a lot of really good Drake Radio information.
Don
AD7LL

----- Original Message -----
From: Ron Baker
To: drakelist@...
Sent: Saturday, July 07, 2007 11:10 AM
Subject: [drakelist] Drake Refurbishing

All, some of you may know that I do refurbishing work on vintage Drake & Collins equipment. Actually I have been doing this since the mid 1970's. Several ham has asked me to put together an article on my refurbishing process. While on vacation this week I finally finished that article. It is now available with lots of pictures. Take a look if you have interest.

http://www.wb4hfn.com/DRAKE/DrakeArticles/DrakeRefurbishing/Refurbishing-01.htm

73 to all, Ron / WB4HFN

Ron Baker / WB4HFN

Check Out My Amateur Radio Website
Vintage Drake and Collins

http://www.wb4hfn.com

[Non-text portions of this message have been removed]

360. Fw: [drakelist] B line with extras for sale.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-14 02:22:06 UTC
From: Don
Topic: 360 Message: 360

----- Original Message -----
From: "Michael N?XY" <michael72@...>
To: <drakelist@...>
Sent: Friday, July 13, 2007 3:19 PM
Subject: [drakelist] B line with extras for sale.

>
> =?ISO-8859-1?Q?Michael_N=D8XY?= <michael72@...> made an
> utterance to the drakelist gang
> ---
> Drake B line for sale.
> R-4B, T-4XB, AC-4, MS-4 plus a load of extra crystals.
> this Drake B line works great on all bands. Power output of nearly
> 150
> Watts on 40 meters, though I only run at about 80 Watts CW. I have
> just
> cleaned the bandswitches in both the receiver and transmitter. (I
> used
> deoxit and put it ONLY on the contacts. I have never douched a band
> switch in my life)
> Cosmetics: RX: very nice shiney chassis. Front panel no scratches.
> Case
> some light scratches, not bad.
> TX: some spotting on chassis, but a lot of shiney copper left.
> Front
> panel has one light scratch under bottom knobs. Case some light
> scratches, not bad.
> MS-4: Light scratches on case, front panel looks great.
> AC-4: Actually, I have not seen it for a long time since it is in
> the
> MS4. It works just fine.
> The receiver is loaded with these extra crystals for these band
> segments:
> 12.6 MHz - 1.5 - 2 160M
> 21.1 MHz - 10 - 10.5 30M
> 29.1 MHz - 18 - 18.5 17M
> 35.6 MHz - 24.5 - 25 12M
> 39.1 MHz - 28- 28.5 10M part not in standard RX
> 40.1 MHz - 29 - 29.5 10M part not in standard RX
> 37.6 MHz - 26.5 - 27
> 38.1 MHz - 27 - 27.5
> 38.6 MHz - 27.5 - 28
> 22.6 MHz - 11.5- 12
>
> This is a complete B line, ready to connect and use. All connection

> cables included. The injection cable is made with RG-62. The rest
> are
> made with RG-174 and RCA ends. The knobs are all shiny. The blue
> filters
> are new, purchased from Donny (forgot last name) the excellent
> Drake
> blue filter guy.
>
> This station includes an original manual for both the T-4XB and
> R-4B.
>
> I rarely get on phone, but I do have a Shure 444 wired for this rig
> that
> sounds great with it. If you want a mic, we talk a little extra
> money.
> Don't want mic, that's fine too.
>
> I am asking $650 for the whole thing, plus shipping. I pack radios
> very
> well, no worries. This is a working piece of history and it can be
> yours. It is NOT perfect in appearance. I have several pictures
> that I
> can email to serious buyers. I need a postal money order for
> payment. No
> personal checks please, unless I know you. I do not do paypal,
> sorry.
>
> My intent is to sell this to a USA buyer. If I have to, I might
> consider
> foreign shipment, but prefer not to. (feel free to put your name in
> if
> you are serious about it)
>
> I also have 17 other 4 line crystals for various band segments with
> some
> duplicates of what is in the RX (yes, 160 and 10) for many
> shortwave
> listening segments. I will be willing to make a good deal on some
> or
> all. Let's talk. I am reasonable and if you make a smooth,
> enjoyable
> deal with me (not raking me over the coals for day after day), you
> might
> find that the rocks could be very reasonable or maybe free.
>
> I have 3 6JB6's. This is my last Drake transmitter that uses them.
> Same
> thinking as on the crystals. If I make a friend, I might find more
> items
> for this station. I know that somewhere I have more of those blue

> filters, and knowing me, a pile of other parts too.
>
> This has been my all time favorite station. I do hate to do this,
> but I
> need to let it go. It is a joy to operate. The receiver is the best
> R4B
> I have ever had, and I have had several of them.
>
> Please reply to michael72@....
> Thanks for reading
> Michael
> N0XY
>
> --
> Submissions: drakelist@.zerobeat.net
> Unsubscribe: majordomo@... - unsubscribe drakelist
> in body
> Hopelessly Lost: majordomo@... - help in body of
> message
> Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
> --

361. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-15 07:37:37 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 361

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

362. T-4XC Part locations

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-18 07:25:14 UTC
From: hastanton2007
Topic: 362 Message: 362

Group,
Good day, first time to post here, but for a reason.....
I am helping a fellow ham trouble shoot his 4C and have found the 13v missing.
Does anyone know the physical location for the zener CR1 and cap C191?
These are fed off of the R7 20 watt dropping resistor that seems to connect via the t/r board to parts unknown.
A conversation with Bill Frost at Drake wasn't a great help.
73
Harold K5GVR

363. Thanks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-19 05:55:04 UTC
From: hastanton2007
Topic: 3 Message: 363

K4OAH,
Thank you very much for your quick response.
Made another ham very happy to have his gear run again.

73 Harold

364. New to this forum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-20 17:42:08 UTC
From: kc8okg
Topic: 364 Message: 364

Hello and thanks for reading my post. I hope this is the correct location for this post. Thanks for letting me join. My name is Greg Sarris and this is my first experience with this forum as well as drake equipment. I am also fairly new to tube rigs as well.
I recently picked up a t4xc in very nice shape it seems fairly late serial number.(289??) The R4c is still on its way here.
I have a few questions that im sure someone can answer here.
1. When I tune the transmitter per the manual--with bias adjustment as called for, I notice the tubes--esp one tube shows cherry red color while transmitting CW. When I adjust the bias for less resting current, the tubes seem to be much cooler and output seems unaffected on CW of course. Forgive me for my ignorance, but is it okay to transmit CW with hardly any resting current on the tubes??? I am also aware that this would have to be increased to operate SSB. I understand these 6jb6 tubes are only rated for 17w dissipation, so im trying to not exceed that of course.
2. I adjusted the trimmer that controls neutralization so that plate current dip corresponds to maximum output. Before adjustment that wasnt the case. So I assume that it is neutralized?? Here is something else- On the higher bands, 20,15,10, it seems that there are (two) places that the plate current shows a dip. I have been told that that is a sign of poor neutralization?
However, on those higher bands, plate dip still corresponds to maximum power out.
Lastly, the tubes show more color when drive is lower. In other words, the transmitter seems to run cooler when output is 100+ versus 30 or 40 watts out. Seems strange to me. Im sure either I am doing something horribly wrong, or something is messed up.
Otherwise, the unit puts out full power, about 100 watts at 300 mils and more power if pushed more, however, I dont see the need for any more than 100w.
Again, forgive me for my ignorance, any suggestions or information would be greatly appreciated. Thanks in advance.

365. Re: [DrakeRadio] New to this forum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-20 22:09:28 UTC
From: Garey Barrell
Topic: 364 Message: 365

Greg -

kc8okg wrote:
> 1. When I tune the transmitter per the manual--with bias adjustment
> as called for, I notice the tubes--esp one tube shows cherry red
> color while transmitting CW. When I adjust the bias for less resting
> current, the tubes seem to be much cooler and output seems
> unaffected on CW of course. Forgive me for my ignorance, but is it
> okay to transmit CW with hardly any resting current on the tubes???
> I am also aware that this would have to be increased to operate SSB.
> I understand these 6jb6 tubes are only rated for 17w dissipation, so
> im trying to not exceed that of course.
>
First, the tubes should NOT show any color when running resting current. Generally speaking, when one tube shows color, it indicates that the OTHER tube is not carrying it's share of the load. Matched pairs of finals are not required, but are recommended for minimum distortion. The difference between statically or even dynamically matched finals is real, but a pair of NEW tubes of the same brand are "close enough".

The bias adjustment should be to 0.1A. Ohm's Opinion tells us that this is 65W of plate dissipation in two tubes that are rated at 16.5W each. There are a couple of factors that mitigate this seeming problem. One is that the 16.5W rating is for a tube that is running all day, closed up in a cabinet with 20 or so other tubes in a color TV set. Another factor is that this condition is only present between code elements or speech syllables in actual use, plus the VOX delay at the end of each transmission. Fortunately, short term overload is something that vacuum tubes handle very well, unlike their SS cousins. Since the final stage in the Drake transmitters is designed to operate as a LINEAR amplifier, it is NOT a good idea to operate the finals with less resting plate current than Drake recommends. That current sets the operating point of the amplifier, and affects the linearity and therefore the "cleanliness" of the transmitted signal. Certainly more of a problem on SSB than CW, but insufficient bias can result in spurious transmitted signals in CW, such as key clicks and other distortion products.
> 2. I adjusted the trimmer that controls neutralization so that plate
> current dip corresponds to maximum output. Before adjustment that
> wasnt the case. So I assume that it is neutralized?? Here is
> something else- On the higher bands, 20,15,10, it seems that there
> are (two) places that the plate current shows a dip. I have been
> told that that is a sign of poor neutralization?
> However, on those higher bands, plate dip still corresponds to
> maximum power out.

>
Secondary plate current dips indicate improper neutralization. Here again, mismatched (different brands) of final tubes can cause neutralization problems. Some brands of 6JB6s are difficult or impossible to neutralize without modification to the transmitter, and mixed brands of finals are just asking for headaches! Aside from that, I find it easier to first perform the neutralization test on 15 or even 20 meters, where the adjustment is a little broader and easier to find. Then switch to 10M and refine the adjustment, which should take only a very small (if any) touch up.

> Lastly, the tubes show more color when drive is lower. In other
> words, the transmitter seems to run cooler when output is 100+
> versus 30 or 40 watts out. Seems strange to me. Im sure either I am
> doing something horribly wrong, or something is messed up.
> Otherwise, the unit puts out full power, about 100 watts at 300 mils
> and more power if pushed more, however, I dont see the need for any
> more than 100w.
>

A far better procedure is to tune the transmitter for maximum power output in the TUNE position. This adjusts the final for a proper match to the antenna and best efficiency and linearity. Then if you want to run less power, reduce the GAIN control for the power you desire. If you are running reduced power to save electricity or for some desired QRP reason, that's fine. But other than that, the Drake transmitters will run full power for as long as you want them to in CW or SSB. The KEY to long final tube life is to ALWAYS ensure that the amplifier is tuned for minimum plate current as quickly as possible. The very feature that made TV sweep tubes desirable as final amplifiers, (their ability to draw very high plate currents at relatively low plate voltages,) is what will kill them quicker than a lower perveance tube such as a 6146 or 807. IF you tune them up properly, keep them neutralized and don't operate the transmitter into the wrong antenna (!) 6JB6s will last for many years. I have "well used" T-4X and TR-4 transmitters with 6JB6s that have been running for over 10 years. The other thing that will greatly extend final tube life is a small fan on the top or back of the final plate cage, blowing air _OUT_ or _UP_ . It doesn't have to be a big fan or sound like a B-29, just a silent, gentle flow of air to move heated air away from the final.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

366. RE: [DrakeRadio] New to this forum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-20 22:27:54 UTC
From: Walter Milton
Topic: 364 Message: 366

Greg,

If you are running the T-4XC transmitter the bias for the TWO 6JB6's is 0.065 ma and not 0.1 A. The TR-4 line of transmitters has three (3) 6JB6's and their bias current is 0.1 A.

I hope this helps you.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Friday, July 20, 2007 6:09 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] New to this forum

Greg -

kc8okg wrote:
> 1. When I tune the transmitter per the manual--with bias adjustment
> as called for, I notice the tubes--esp one tube shows cherry red
> color while transmitting CW. When I adjust the bias for less resting
> current, the tubes seem to be much cooler and output seems
> unaffected on CW of course. Forgive me for my ignorance, but is it
> okay to transmit CW with hardly any resting current on the tubes???
> I am also aware that this would have to be increased to operate SSB.
> I understand these 6jb6 tubes are only rated for 17w dissipation, so
> im trying to not exceed that of course.
>
First, the tubes should NOT show any color when running resting current. Generally speaking, when one tube shows color, it indicates that the OTHER tube is not carrying it's share of the load. Matched pairs of finals are not required, but are recommended for minimum distortion. The difference between statically or even dynamically matched finals is real, but a pair of NEW tubes of the same brand are "close enough".

The bias adjustment should be to 0.1A. Ohm's Opinion tells us that this is 65W of plate dissipation in two tubes that are rated at 16.5W each. There are a couple of factors that mitigate this seeming problem. One is that the 16.5W rating is for a tube that is running all day, closed up in a cabinet with 20 or so other tubes in a color TV set. Another factor is that this condition is only present between code elements or

speech syllables in actual use, plus the VOX delay at the end of each transmission. Fortunately, short term overload is something that vacuum tubes handle very well, unlike their SS cousins. Since the final stage in the Drake transmitters is designed to operate as a LINEAR amplifier, it is NOT a good idea to operate the finals with less resting plate current than Drake recommends. That current sets the operating point of the amplifier, and affects the linearity and therefore the "cleanliness" of the transmitted signal. Certainly more of a problem on SSB than CW, but insufficient bias can result in spurious transmitted signals in CW, such as key clicks and other distortion products.

> 2. I adjusted the trimmer that controls neutralization so that plate
> current dip corresponds to maximum output. Before adjustment that
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> are (two) places that the plate current shows a dip. I have been
> told that that is a sign of poor neutralization?
> However, on those higher bands, plate dip still corresponds to
> maximum power out.
>

Secondary plate current dips indicate improper neutralization. Here again, mismatched (different brands) of final tubes can cause neutralization problems. Some brands of 6JB6s are difficult or impossible to neutralize without modification to the transmitter, and mixed brands of finals are just asking for headaches! Aside from that, I find it easier to first perform the neutralization test on 15 or even 20 meters, where the adjustment is a little broader and easier to find. Then switch to 10M and refine the adjustment, which should take only a very small (if any) touch up.

> Lastly, the tubes show more color when drive is lower. In other
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> doing something horribly wrong, or something is messed up.
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6JB6s will last for many years. I have "well used" T-4X and TR-4 transmitters with 6JB6s that have been running for over 10 years. The other thing that will greatly extend final tube life is a small fan on the top or back of the final plate cage, blowing air _OUT_ or _UP_ . It doesn't have to be a big fan or sound like a B-29, just a silent, gentle flow of air to move heated air away from the final.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

367. Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 03:14:15 UTC
From: BSugarberg
Topic: 364 Message: 367

Hello,

What are the differences between the R-4, R-4A, R-4B?

Thank you,

Bruce WA8TNC

368. Re: [DrakeRadio] New to this forum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 02:18:17 UTC
From: Garey Barrell
Topic: 364 Message: 368

Walt -

Well not exactly. The recommended 0.07 A plate current for two, (there is a mark on the T-4X plate meter scale,) and 0.1 for three 6JB6's in the TR-4.

They also recommended limiting plate current to 340 mA on the T-4X and 350 mA on the TR-4. This occurred around the time the distortion and spurious expectations of "best practices" in Part 97.73 came up with the FCC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
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Walter Milton wrote:
> Greg,
>
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>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell
> Sent: Friday, July 20, 2007 6:09 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] New to this forum
>
>
>
> Greg -
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> pairs of finals are not required, but are recommended for minimum
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B & C-Line Service Supplement CDs
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>
>
>

369. Re: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 02:24:08 UTC
From: Garey Barrell
Topic: 364 Message: 369

BSugarberg wrote:
> Hello,
>
> What are the differences between the R-4, R-4A, R-4B?
>
> Thank you,
>
> Bruce WA8TNC
>
>
Bruce -

The 2-B is an outstanding CW receiver, the dial calibration is a little coarse by today's standards, but for just getting on the air and enjoying a CW QSO it works as well as any. It has three (L-C) filter bandwidths, (500, 2100 and 3600 Hz,) built in along with passband tuning. The 100 kHz crystal calibrator was optional. The companion 2-BQ Q Multiplier adds a very sharp peaking filter and a nice tunable null, both at the IF.

There is no matching transmitter for the 2-B.

The R-4 is almost a 2-B, just with a linear PTO and 1 kHz dial calibration. All tubes. Very similar in operation, and will transceive with the matching T-4X for an excellent CW station. Four filter bandwidths, (400, 1200, 2400 and 4800 Hz,) passband tuning, noise blanker, LC notch and 100 kHz crystal calibrator built in.

The R-4A (early 13 tube model) is an improved R-4, almost identical specifications. PTO and Band Oscillators converted to solid state.

The R-4A (late 11 tube model) almost identical specifications. Product detector, BFO, AGC and low level audio stages converted to solid state. There are a total of four versions of the R-4A.

The R-4B (early) is very similar to the late R-4A, minor modifications and crystal calibrator multivibrator for 25 kHz markers.

The R-4B (late) almost identical except PTO changed from bipolar to FET. There are also four versions of the R-4B.

The R-4C (early) very similar, except IF filters changed to crystal filters. Only the 2.3 kHz filter is standard, 250, 500, 1800, 4000 and 6000 Hz BW are available as options. The 4000 & 6000 Hz filters are normally installed in a special socket under the chassis and is effective on AM only. Four position filter switch. The noise blanker was optional. Entire audio chain solid state, tubes used only from RF

to IF, all other stages and oscillators solid state.

The R-4C (late) same. Five position filter switch. And, sure enough, there are four versions of the R-4C.

The 2-B through the R-4B used L-C filters in the IF. This type of filter has much gentler slopes, which means that nearby signals are still heard, just at reduced levels. The crystal filters are steep sided, more like the crystal filters in today's receivers. Personally, I prefer the L-C filters for all except heavy duty contest use. I like to hear what is going on around my frequency, instead of "listening with blinders on"...

The T-4 series transmitters are all pretty much the same, the T-4X had 4 pole crystal filters while the T-4XB and C had 8 pole filters. The later ones therefore had slightly better carrier and unwanted sideband suppression, neither of which has ANY effect on CW operation. ANY 4 series receiver will transceive with ANY 4 series transmitter, mix and match. There are minor things like the B line had a neon indicator light under the dial to show which PTO was controlling in transceive while the C line just turned the dial lamps on or off. The R-4 and R-4A had neither, so you had to look at the switch!

My opinion..... The R-4B is probably the best receiver overall. It has great audio, smooth AGC, all the filters and noise blanker are built in. The L-C filters are not quite as "drop off the table" selective, but I prefer that for casual QSOs.

The R-4C has poorer audio, a little harsher, the "better" (?) crystal filters are extra, and the noise blanker is extra.

The R-4 and R-4A are just earlier iterations of the R-4B, and are not quite as refined, although some say they prefer the early R-4A to the R-4B because the tube type product detector in the R-4A is "cleaner".

The 2-B isn't very far behind, except it will NOT transceive with anything, and the dial calibration is not precisely linear.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service CDs
<http://www.k4oah.com>

370. Re: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 02:40:12 UTC
From: Tim Kass
Topic: 364 Message: 370

Nice job Garey, I dont think I could add anything to that! Only perhaps if your looking to buy, and I am guessing you are, the R4A (late) model might be the best values...collectors, like me, tend to go for the R4B and others for the R4C line, personally I agree with Garey in all respects, I like the sound of the R4B better, and it was actually quieter than the R4C (2nd version) I owned.

73, Tim K8WBL

Garey Barrell <k4oah@...> wrote:

BSugarberg wrote:
> Hello,
>
> What are the differences between the R-4, R-4A, R-4B?
>
> Thank you,
>
> Bruce WA8TNC
>
>
Bruce -

The 2-B is an outstanding CW receiver, the dial calibration is a little coarse by today's standards, but for just getting on the air and enjoying a CW QSO it works as well as any. It has three (L-C) filter bandwidths, (500, 2100 and 3600 Hz,) built in along with passband tuning. The 100 kHz crystal calibrator was optional. The companion 2-BQ Q Multiplier adds a very sharp peaking filter and a nice tunable null, both at the IF.

There is no matching transmitter for the 2-B.

The R-4 is almost a 2-B, just with a linear PTO and 1 kHz dial calibration. All tubes. Very similar in operation, and will transceive with the matching T-4X for an excellent CW station. Four filter bandwidths, (400, 1200, 2400 and 4800 Hz,) passband tuning, noise blanker, LC notch and 100 kHz crystal calibrator built in.

The R-4A (early 13 tube model) is an improved R-4, almost identical specifications. PTO and Band Oscillators converted to solid state.

The R-4A (late 11 tube model) almost identical specifications. Product detector, BFO, AGC and low level audio stages converted to solid state. There are a total of four versions of the R-4A.

The R-4B (early) is very similar to the late R-4A, minor modifications and crystal calibrator multivibrator for 25 kHz markers.

The R-4B (late) almost identical except PTO changed from bipolar to FET. There are also four versions of the R-4B.

The R-4C (early) very similar, except IF filters changed to crystal filters. Only the 2.3 kHz filter is standard, 250, 500, 1800, 4000 and 6000 Hz BW are available as options. The 4000 & 6000 Hz filters are normally installed in a special socket under the chassis and is effective on AM only. Four position filter switch. The noise blanker was optional. Entire audio chain solid state, tubes used only from RF to IF, all other stages and oscillators solid state.

The R-4C (late) same. Five position filter switch. And, sure enough, there are four versions of the R-4C.

The 2-B through the R-4B used L-C filters in the IF. This type of filter has much gentler slopes, which means that nearby signals are still heard, just at reduced levels. The crystal filters are steep sided, more like the crystal filters in today's receivers. Personally, I prefer the L-C filters for all except heavy duty contest use. I like to hear what is going on around my frequency, instead of "listening with blinders on"...

The T-4 series transmitters are all pretty much the same, the T-4X had 4 pole crystal filters while the T-4XB and C had 8 pole filters. The later ones therefore had slightly better carrier and unwanted sideband suppression, neither of which has ANY effect on CW operation. ANY 4 series receiver will transceive with ANY 4 series transmitter, mix and match. There are minor things like the B line had a neon indicator light under the dial to show which PTO was controlling in transceive while the C line just turned the dial lamps on or off. The R-4 and R-4A had neither, so you had to look at the switch!

My opinion..... The R-4B is probably the best receiver overall. It has great audio, smooth AGC, all the filters and noise blanker are built in. The L-C filters are not quite as "drop off the table" selective, but I prefer that for casual QSOs.

The R-4C has poorer audio, a little harsher, the "better" (?) crystal filters are extra, and the noise blanker is extra.

The R-4 and R-4A are just earlier iterations of the R-4B, and are not quite as refined, although some say they prefer the early R-4A to the R-4B because the tube type product detector in the R-4A is "cleaner".

The 2-B isn't very far behind, except it will NOT transceive with anything, and the dial calibration is not precisely linear.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service CDs
<http://www.k4oah.com>

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[Non-text portions of this message have been removed]

371. Re: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 03:52:32 UTC
From: BSugarberg
Topic: 364 Message: 371

Hello,

Thank you Garey, and thank you Tim.

If it is OK to ask, what are reasonable prices for the different R-4 receivers?

73, Bruce WA8TNC
==========
Tim Kass wrote:

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> quieter than the R4C (2nd version) I owned.
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> 73, Tim K8WBL

372. RE: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 02:56:27 UTC
From: Jim Chaggaris
Topic: 364 Message: 372

I agree with Garey. I prefer my late R4B (#16015) / T4XB (#20128) twins to my C-Line which has spent most of the last year or so on the shelf.

73's

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Tim Kass
Sent: Friday, July 20, 2007 9:40 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake Receivers Question

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73, Garey - K4OAH
Glen Allen, VA

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<http://www.k4oah. <http://www.k4oah.com> com>

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[Non-text portions of this message have been removed]

373. Re: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 04:15:04 UTC
From: Tim Kass
Topic: 364 Message: 373

Check Epay..but prices and time of the year seems to make a difference...anywhere from $150 - $200 for R4A and up for R4B and R4C ....just my experience +/- ...

73, Tim K8WBL

PS> If you buying them separate, that is, the transmitter and receiver, especially the R4/A/B , check the color dots on the xtals...cant remember which is which but Drake color coded the xtals that tended to drift up, drift down, or not drift too much...this is not so much a concern on the C line since Drake added an additional cable line to sinc up with the transmiter...another difference between the C line and others...

73, Tim K8WBL

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>
> 73, Tim K8WBL

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374. Re: [DrakeRadio] Drake Receivers Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-21 14:12:30 UTC
From: Garey Barrell
Topic: 364 Message: 374

Bruce -

Pricing is always a question. Essentially it's what the buyer and seller feel it's worth. Typically prices are a little lower from an individual seller or on a venue such as E-Ham or QTH, with E* being the highest. Pricing tends to follow the size of the potential market for some reason! Although there are always exceptions! An R-4 in decent condition tends to be around $150, the "A" around $200, "B" around $250 and "C" $300 and up. The "C" can be a little misleading, since models through the B are complete, while the C when "stripped down" has only the SSB filter, and no Noise Blanker. Fortunately the E* vultures haven't figured out yet that the C crystal calibrator unplugs, or that would be stripped out and sold in a "separate auction". I expect any day to see each tube being sold in a "separate auction", but so far so good. The filters range from $50-125, depending upon bandwidth and ... The NB-4 Noise Blanker runs $150-175. The condition of the copper plated chassis on all but the C has a considerable effect on the selling price. I have seen them anywhere from pristine to looking like they spent the last year at the bottom of the river. The effect on operation is negligible in _most_ cases, but is really unrepairable. The C has an alodined chassis, and is MUCH tougher, although nowhere near as attractive!!

There is current pricing information on the WB4HFN website

<www.wb4hfn.com>

and there is also an article on the color coding of crystals in 4 Line equipment there. It's difficult to find "matched" sets anymore, but it is _ONLY_ a matter of concern for transceive operation on SSB. The variation is undetectable on CW. Transceive operation up through the B Line depends upon the absolute stability of the Carrier Oscillator crystal in the transmitter and the 2nd Mixer LO crystal in the receiver. A CUMULATIVE variation of even 30-40 Hz between the two is audible on SSB. So late in the A series, Drake began selecting crystals and grouping them into four "grades" that basically "drifted together", putting a paint stripe on the crystal and adding a letter to the end of the serial numbers. The letter is not a guarantee of the color of the crystal, since Drake would exchange a crystal for an owner who ended up with different letters, and more than a few were changed back then. The situation was resolved in the C Line when an extra cable was added to enable a sort of phase lock between the two crystals, keeping them together.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Tim Kass wrote:
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> ---
> Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.
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375. Re: [DrakeRadio] New to this forum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-24 18:55:58 UTC
From: gregsarris@aol.com
Topic: 364 Message: 375

Thanks for all the advise and information.?I have decided to send the unit to a gentleman in TX who works on these so he can look the unit over. I have also sent him my r-4c as well so he can hopefully get both running well.

About the gain and tuning issue. I was tuning for maximum output using the "tune" function and dipping the plate and adjusting the Load for maximum output, however, when I would turn the gain down to lower the output(thinking I would stress the tubes less), the tubes actually showed more color with less drive. Im sure that Larry at T and T will be able to figure out what is going on. The truth of the matter is- Ive never owned one of these before, so I really would not know what to expect from one. I have however, used PA?with tubes as well as hybrid rigs with tube finals, so while I certainly am NO expert on the issue as im sure some of you are, I am somewhat familiar with the tuneup procedure for devices like this.?I will say that it seems like it is running good in terms of output and so forth set aside the tube color issue and the fact that the tube shows more color with less drive. Possibly, I am detuning the PA circuit by turning the gain down?? It is acting as such. Of course, I would understand showing more tube color if the plate or load were incorrectly adjusted. But as it stands-when transmitter is tuned for max output via tune-plate and load----more drive= less cherry color, less drive=more color. Still seems backward to me, but im sure there is a simple explanation for it or for what I am doing wrong.
At 300mils, I see about 100-110 watts out. Thanks so much for all your help. I cant wait for Larry to get back to me with his findings.
73, Greg Sarris??? KC8OKG

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, 20 Jul 2007 6:09 pm
Subject: Re: [DrakeRadio] New to this forum

Greg -

kc8okg wrote:
> 1. When I tune the transmitter per the manual--with bias adjustment
> as called for, I notice the tubes--esp one tube shows cherry red
> color while transmitting CW. When I adjust the bias for less resting
> current, the tubes seem to be much cooler and output seems
> unaffected on CW of course. Forgive me for my ignorance, but is it
> okay to transmit CW with hardly any resting current on the tubes???
> I am also aware that this would have to be increased to operate SSB.
> I understand these 6jb6 tubes are only rated for 17w dissipation, so
> im trying to not exceed that of course.
>
First, the tubes should NOT show any color when running resting
current. Generally speaking, when one tube shows color, it indicates
that the OTHER tube is not carrying it's share of the load. Matched

pairs of finals are not required, but are recommended for minimum distortion. The difference between statically or even dynamically matched finals is real, but a pair of NEW tubes of the same brand are "close enough".

The bias adjustment should be to 0.1A. Ohm's Opinion tells us that this is 65W of plate dissipation in two tubes that are rated at 16.5W each. There are a couple of factors that mitigate this seeming problem. One is that the 16.5W rating is for a tube that is running all day, closed up in a cabinet with 20 or so other tubes in a color TV set. Another factor is that this condition is only present between code elements or speech syllables in actual use, plus the VOX delay at the end of each transmission. Fortunately, short term overload is something that vacuum tubes handle very well, unlike their SS cousins. Since the final stage in the Drake transmitters is designed to operate as a LINEAR amplifier, it is NOT a good idea to operate the finals with less resting plate current than Drake recommends. That current sets the operating point of the amplifier, and affects the linearity and therefore the "cleanliness" of the transmitted signal. Certainly more of a problem on SSB than CW, but insufficient bias can result in spurious transmitted signals in CW, such as key clicks and other distortion products.

> 2. I adjusted the trimmer that controls neutralization so that plate
> current dip corresponds to maximum output. Before adjustment that
> wasnt the case. So I assume that it is neutralized?? Here is
> something else- On the higher bands, 20,15,10, it seems that there
> are (two) places that the plate current shows a dip. I have been
> told that that is a sign of poor neutralization?
> However, on those higher bands, plate dip still corresponds to
> maximum power out.
>

Secondary plate current dips indicate improper neutralization. Here again, mismatched (different brands) of final tubes can cause neutralization problems. Some brands of 6JB6s are difficult or impossible to neutralize without modification to the transmitter, and mixed brands of finals are just asking for headaches! Aside from that, I find it easier to first perform the neutralization test on 15 or even 20 meters, where the adjustment is a little broader and easier to find. Then switch to 10M and refine the adjustment, which should take only a very small (if any) touch up.

> Lastly, the tubes show more color when drive is lower. In other
> words, the transmitter seems to run cooler when output is 100+
> versus 30 or 40 watts out. Seems strange to me. Im sure either I am
> doing something horribly wrong, or something is messed up.
> Otherwise, the unit puts out full power, about 100 watts at 300 mils
> and more power if pushed more, however, I dont see the need for any
> more than 100w.
>

A far better procedure is to tune the transmitter for maximum power output in the TUNE position. This adjusts the final for a proper match to the antenna and best efficiency and linearity. Then if you want to

run less power, reduce the GAIN control for the power you desire. If you are running reduced power to save electricity or for some desired QRP reason, that's fine. But other than that, the Drake transmitters will run full power for as long as you want them to in CW or SSB. The KEY to long final tube life is to ALWAYS ensure that the amplifier is tuned for minimum plate current as quickly as possible. The very feature that made TV sweep tubes desirable as final amplifiers, (their ability to draw very high plate currents at relatively low plate voltages,) is what will kill them quicker than a lower perveance tube such as a 6146 or 807. IF you tune them up properly, keep them neutralized and don't operate the transmitter into the wrong antenna (!) 6JB6s will last for many years. I have "well used" T-4X and TR-4 transmitters with 6JB6s that have been running for over 10 years. The other thing that will greatly extend final tube life is a small fan on the top or back of the final plate cage, blowing air _OUT_ or _UP_ . It doesn't have to be a big fan or sound like a B-29, just a silent, gentle flow of air to move heated air away from the final.

73, Garey - K4OAH
Glen Allen, VA

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<www.k4oah.com>;

_____
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[Non-text portions of this message have been removed]

376. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-07-29 09:14:19 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 376

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

377. AC4R VS AC3 trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-08 20:14:37 UTC
From: jeu3pneu
Topic: 377 Message: 377

Hello all Drake fan.
I bought a AC4R on a Drake AC3. I have no instruction and my TR4C
works well with a AC4 and not very well with a AC4R.
I compare the color in the plug and there' s difference ???
Any one have tried AC4R on a Drake AC3 and want to send me
the plug color schematic ???
Tnx
Martin
VE2EDK/VA2ZO

378. Fw: [drakelist] Drake For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-09 20:47:31 UTC
From: Don
Topic: 378 Message: 378

----- Original Message -----
From: W8DRZ@...
To: drakelist@...
Sent: Thursday, August 09, 2007 12:55 PM
Subject: [drakelist] Drake For Sale

Hi all;

I am in the process of moving to the west (Grand Forks, BC and am downsizing the shack to help accomplish this. As such many of my prized Drake pieces are for sale. Please see the attached list and any responses should come directly to me, not via the list. Note there is no duty/tax on American made gear when importing to the US. Shipping cost via Canada Post is extra.

Hammond 4-bay sloped front lighted rack console/desk. As in Fred's station at the Hammond museum. http://www.hammondmuseumofradio.org/visit.html Look for W8RO's pic. $800 OBO

EAC Radiomarine R-8 version of Drake RR-1 - $400
ITT Mackay version of Drake RR-1 - $500

TR4C/RV-4C/AC-4 - $550 mint!
TR-4/RV-4/AC-4 - $400
TR-3/RV-3/AC-3 (updated PS board)- $300
TR-4CW/rit/RV-4C/AC-4 - $900 (ouch I know but that's what they get...and more!)

TC-2 2m transmit converter with power cable - $250
CC-1 converter console with SC-2 2m rx converter/xtal calib and power supply - CC-1 cabinet has been nicely re-painted and looks near original - $250 or $200 with TC-2. The TC-2 needs the SC-2 to work.

R-4/T4X/MS-4/AC-4 - some copper chassis spotting on R-4 but works fine. $400
R4A receiver - $225 - really nice.

Drake "communication stations"
R4C/T4XC in a CA-1 stacking cabinet with SSB filter/4NB blanker/ Ac-4 PS and MS-4 Spker - $800

TR-44 - this is a T-4 reciter and R-4 receiver in a stacking cabinet, with AC-4 PS - $400

TR-44B - this is a T4B reciter with R4B receiver in a stacking cabinet with AC-4 PS - $500 - Good condition.

VERY rare TR-44C - this is a RARE T4C reciter with R4C receiver, 4NB noise blanker, AC-4 PS - $1,000 - Cabinet has been nicely repainted - looks

terrific!

TEN TEC RX-340 DSP receiver - Works and looks great. BITE test fails for some reason.
$2500 (sells new for $4250 US + the exchange duty and tax brings it to over $5k)

Mackay Marine MSR-5050A - tuning glitch - encoder skips a bit. excellent shape - $900 with 8 spare boards and full technical manual.

Thanks and 73

Peter
VE3AX
ve3ax@...
905-772-8938

Get a sneak peek of the all-new AOL.com.

[Non-text portions of this message have been removed]

379. T4XB TUBE QUESTION

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-11 03:56:43 UTC
From: JOHN
Topic: 379 Message: 379

Hi Guys,

I need a set of tubes for my t4xb and need some info...is one brand better than another and is there any advantage to buying a "matched pair" or is it just a waste of money.I plan to use the rig on AM alot so would like to get some rugged tubes....Thanks John KG6CZX

380. Re: [DrakeRadio] T4XB TUBE QUESTION

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-11 15:25:23 UTC
From: Garey Barrell
Topic: 379 Message: 380

John -

If you are referring to an "entire" set of tubes, it's highly unlikely that you actually NEED an entire set of tubes.

If you are referring to finals, yes, the Sylvania brand tubes seem to give the best life and output across the board. MOST brands of tubes will work OK, but there ARE variations in manufacture and operation. The "later" tube brands, such as "Standard" and others that appeared in the 80's, are generally NOT as good and some won't work at all! By then, tubes were being manufactured in only a very few factories, some offshore, and sold under various brand names. Keep in mind that the 6JB6 was designed to run at 15 kHz, and you can see that there are a lot of things that can go wrong if you try and make them work at 30 MHz. To my knowledge, Sylvania was the only company that actually tested and characterized the 6JB6 (and a few other sweep tubes) for use as linear amplifiers at 30 MHz.

That said, most of the major US made tubes of the era will work just fine. Zenith branded tubes appear to have been supplied, at least primarily, by Sylvania and work essentially the same. Drake at times shipped new units with RCA brand tubes, and GE brand also work OK. The GE tubes seem to drop in output power faster than the others, but only about 10% and then last about the same for the rest of their life. Beyond these four, things get a little more "iffy". Westinghouse and Raytheon brands seem to have more variation, some work, some don't.

Aside from the ones that just don't work at all, the usual problem is neutralization. Some "squirrelly" tubes can be made to work by modifying the padder capacitor across the neutralization trimmer to accommodate. Drake published an errata sheet covering this, but basically it just says you might have to change that fixed cap to get the trimmer in range.

The thing about "matching" is that if a pair (or triplet) of finals are not matched, one may end up taking more than it's share of the load, causing additional distortion. Distortion in a linear amplifier goes up quickly when a tube is overloaded. So if a mismatched pair that is loaded to the nominal plate current of 340 mA and one tube only draws 140 mA the other tube has to be loaded to 200 mA to reach that current. Generally speaking, a pair of NEW tubes of the SAME "good" brand are close enough. Most tubes sold as "matched" are only matched at a single current, leaving room for error anyway. You can match your own tubes in the T-4XB by putting a DMM across one of the cathode resistors in the PA (R32 or R33), pulling out the tube in the OTHER socket, and with the GAIN control CCW, close the PTT and adjust the BIAS

control on the AC-4 for 35 mA plate current (idle per the manual). Record the voltage from the DMM, (should be about 2.55 VDC,) unkey the transmitter, wait 30 seconds and then short the final plate cap to ground. Remove that tube, replace it with another, and repeat WITHOUT adjusting the BIAS control, and record the DMM reading for that tube. Repeat with however many tubes you have, and then select the pair with the closest readings. The closer the better, but anything within 5% or so is close enough. While you're in there, and preferably before doing your matching, check R32 and R33. These are often out of spec, especially if the transmitter has been mistreated. They should be within 5% of 15 ohms, and again the closer they are to each other, the better, as this balance also affects the matching of the pair of finals. If replaced the Ohmite brand of OX/OY resistors are the best replacement, preferably the 2W version.

The best thing you can do to extend the life of your final tubes is to add a small fan on the top or back of the transmitter final cage. It doesn't have to be a monster, just place it so that it is blowing UP or OUT. It can be powered from AC or from rectified filament voltage from the transmitter if it's a 12 VDC computer style fan. You're not trying to "air cool" the finals, just get the heat out and away from them. The fan, and of course care in keeping the finals "dipped" at ALL times, and QUICKLY tuning up into a MATCHED antenna system will let good finals last for MANY years, even in AM service. I ran three sets on RTTY at full power for 30 minutes or more and got years of service from them. But being slow or careless in tune-up will kill them in seconds. The very thing that makes them desirable as finals, high plate current at relatively low plate voltage, will kill them if mistreated.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHN wrote:
> Hi Guys,
>
> I need a set of tubes for my t4xb and need some info...is one brand
> better than another and is there any advantage to buying a "matched
> pair" or is it just a waste of money.I plan to use the rig on AM alot
> so would like to get some rugged tubes....Thanks John KG6CZX
>
>
>

381. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-12 07:33:15 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 381

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

382. Fw: [N3FJP_Software] WX Spotting Log 0.2 - BETA Testers Needed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-12 21:08:03 UTC
From: Don
Topic: 382 Message: 382

----- Original Message -----
From: SNKDavis@...
To: n3fjp_Software@yahoogroups.com
Sent: Sunday, August 12, 2007 2:27 PM
Subject: [N3FJP_Software] WX Spotting Log 0.2 - BETA Testers Needed!

Hi All,

In addition to Amateur Radio, I've always been very interested in weather. I've had an idea for a while now (I think I may have mentioned it before) about a WX Spots server that would function very much like DX Spotting. It would give everyone the opportunity to monitor and post, real time weather information along the lines of SkyWarn protocols.

We continue to hear that with all the automated data available today, there is no substitute for real time observations during severe weather. On Monday July the 16th, we had a very minimal tornado touch down a couple miles from our home. The damage wasn't too bad, but it did wind up closing a major roadway for over a day due to trees and power lines down. Watching that process unfold on the news, it became obvious how necessary visual reports really are to quickly assess the extent of storm damage, and it got me thinking about
this idea again.

In a nutshell, here is the idea:

- Everyone (the clients) connect to a server, which relays real time observations back to all clients

- The clients have the option to display all data, or screen by state or county

- Audio alerts can be specified by the user based on the location

- A messaging feature is available to allow for communication with other members of your organization (and any other connected users).

I shared this idea on the N3FJP_Software_Users group a few weeks ago and the response was enthusiastic, so between the code that I have already written for the WOTA server and modules for the logging software, I've cobbled together the basic client and server to perform the described functions.

We've been beta testing for about two weeks, and I'd like to get more users on the server to give it a good run through. You won't find it on the website yet, but if you have an interest in this project, please download the installation file by clicking on this link:

http://n3fjp.ky1v.com/WXSpot.exe

If you are involved in Skywarn or something similar, right now is a great opportunity to have the other members of your group to also give it a try since, while in BETA testing, reports are assumed to be fictitious. Everyone is encouraged to try sending reports and

other features to get comfortable with the software. Please try all the features and let me know of any bugs that may come to light.

Since this project is a little different than my "regular" logging software, I have set up a separate e-mail group for this project:

Click to join WXSpots

WXSpots-subscribe@yahoogroups.com

After you subscribe, please send e-mail regarding this project to WXSpots@yahoogroups.com. One of the goals of this project is that support will be provided by the user community.

As always, thanks for your support and kind words, and in advance for trying out this program!

73, Scott
N3FJP
http://www.n3fjp.com/

Serving the Amateur Radio Community with contesting and general logging software since 1997.

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

[Non-text portions of this message have been removed]

383. RE: [DrakeRadio] AC4R VS AC3 trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-12 21:37:02 UTC
From: Walter Milton
Topic: 377 Message: 383

Martin,

I have converted two AC4's using the AC4R kit. Both kits came with instructions and the converted AC4's work well with my TR4CW/rit and the twins T4XC/R4C. I have NO experience with the AC3 PS.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jeu3pneu
Sent: Wednesday, August 08, 2007 4:15 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] AC4R VS AC3 trouble

Hello all Drake fan.
I bought a AC4R on a Drake AC3. I have no instruction and my TR4C works well with a AC4 and not very well with a AC4R.
I compare the color in the plug and there' s difference ???
Any one have tried AC4R on a Drake AC3 and want to send me the plug color schematic ???
Tnx
Martin
VE2EDK/VA2ZO

[Non-text portions of this message have been removed]

384. Re: [DrakeRadio] AC4R VS AC3 trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-13 02:13:37 UTC
From: Martin
Topic: 377 Message: 384

Tnx Walter for your answer.
Here i have no instruction. Where do you think it is possible to get it ?
Martin

Walter Milton a ?crit :
>
> Martin,
>
> I have converted two AC4's using the AC4R kit. Both kits came with
> instructions and the converted AC4's work well with my TR4CW/rit and the
> twins T4XC/R4C. I have NO experience with the AC3 PS.
>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
> _____
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of jeu3pneu
> Sent: Wednesday, August 08, 2007 4:15 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] AC4R VS AC3 trouble
>
> Hello all Drake fan.
> I bought a AC4R on a Drake AC3. I have no instruction and my TR4C
> works well with a AC4 and not very well with a AC4R.
> I compare the color in the plug and there' s difference ???
> Any one have tried AC4R on a Drake AC3 and want to send me
> the plug color schematic ???
> Tnx
> Martin
> VE2EDK/VA2ZO
>
> [Non-text portions of this message have been removed]
>
>

385. RE: [DrakeRadio] AC4R VS AC3 trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-13 21:05:38 UTC
From: Walter Milton
Topic: 377 Message: 385

Martin,

If you did not receive them with the kit you can try asking the developer, Mike Bryce WB8VGE The Heathkitshop, SunLight Energy System. If you can not get a copy from him let me know wmilton at comcast dot net. I will scan and email you a copy. The instructions are 5 pages double sided.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Martin
Sent: Sunday, August 12, 2007 10:14 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] AC4R VS AC3 trouble

Tnx Walter for your answer.
Here i have no instruction. Where do you think it is possible to get it ?
Martin

Walter Milton a écrit :
>
> Martin,
>
> I have converted two AC4's using the AC4R kit. Both kits came with
> instructions and the converted AC4's work well with my TR4CW/rit and the
> twins T4XC/R4C. I have NO experience with the AC3 PS.
>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
> -----
>
> From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com

> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of jeu3pneu
> Sent: Wednesday, August 08, 2007 4:15 PM
> To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com <mailto:DrakeRadio%40yahoogroups.com>

> Subject: [DrakeRadio] AC4R VS AC3 trouble
>
> Hello all Drake fan.
> I bought a AC4R on a Drake AC3. I have no instruction and my TR4C
> works well with a AC4 and not very well with a AC4R.
> I compare the color in the plug and there' s difference ???
> Any one have tried AC4R on a Drake AC3 and want to send me
> the plug color schematic ???
> Tnx
> Martin
> VE2EDK/VA2ZO
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

386. Re: [DrakeRadio] AC4R VS AC3 trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-14 12:48:12 UTC
From: Martin
Topic: 377 Message: 386

Hello Mike i bought use Drake and AC4R so i dont have the ac4r manual.
If you can scan me and send it it will be VERY usefull for me.
Tnx
Best 73!
Martin
VE2EDK

Walter Milton a ?crit :
>
> Martin,
>
> If you did not receive them with the kit you can try asking the developer,
> Mike Bryce WB8VGE The Heathkitshop, SunLight Energy System. If you can not
> get a copy from him let me know wmilton at comcast dot net. I will scan
> and email you a copy. The instructions are 5 pages double sided.
>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
> _____
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of Martin
> Sent: Sunday, August 12, 2007 10:14 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: Re: [DrakeRadio] AC4R VS AC3 trouble
>
> Tnx Walter for your answer.
> Here i have no instruction. Where do you think it is possible to get it ?
> Martin
>
> Walter Milton a ?crit :
> >
> > Martin,
> >
> > I have converted two AC4's using the AC4R kit. Both kits came with
> > instructions and the converted AC4's work well with my TR4CW/rit and the
> > twins T4XC/R4C. I have NO experience with the AC3 PS.
> >
> >
> > Walt., KA2NJF

> > Psalm 1
> > A child of the Living God
> >
> > _____
> >
> > From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> <mailto:DrakeRadio%40yahoogroups.com>
> > [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com>
> ups.com
>
> > <mailto:DrakeRadio%40yahoogroups.com>] On
> > Behalf Of jeu3pneu
> > Sent: Wednesday, August 08, 2007 4:15 PM
> > To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> <mailto:DrakeRadio%40yahoogroups.com>
> > Subject: [DrakeRadio] AC4R VS AC3 trouble
> >
> > Hello all Drake fan.
> > I bought a AC4R on a Drake AC3. I have no instruction and my TR4C
> > works well with a AC4 and not very well with a AC4R.
> > I compare the color in the plug and there' s difference ???
> > Any one have tried AC4R on a Drake AC3 and want to send me
> > the plug color schematic ???
> > Tnx
> > Martin
> > VE2EDK/VA2ZO
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> [Non-text portions of this message have been removed]
>
>

387. #12 lamp in TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-15 22:25:59 UTC
From: Mike-K5VSE
Topic: 387 Message: 387

Can anyone on this fantastic list tell me whether all TR-4 transceivers had the 2 pin #12 lamp in the antenna circuit? I have checked everything I can think of, and still have a weak signal input, but can not seem to locate the lamp used as the fuse.

Any and all suggestions welcome.

Thanks es 73
Mike/K5VSE

388. Re: #12 lamp in TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-15 22:51:33 UTC
From: Mike-K5VSE
Topic: 387 Message: 388

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Can anyone on this fantastic list tell me whether all TR-4
> transceivers had the 2 pin #12 lamp in the antenna circuit? I have
> checked everything I can think of, and still have a weak signal input,
> but can not seem to locate the lamp used as the fuse.
>
> Any and all suggestions welcome.
>
> Thanks es 73
> Mike/K5VSE
>
Please disregard the above post.I found it. Someone in the past has
soldered in a grain-O-wheat lamp in place of the #12.

Thanks again,
Mike

389. Re: [DrakeRadio] Re: #12 lamp in TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-16 03:01:51 UTC
From: Garey Barrell
Topic: 387 Message: 389

Mike -

TR-3 and early TR-4 had the lamp mounted inside the final cage on top of the chassis. Later it was moved under the chassis when the relay was changed. A #12 bulb has the same ratings as a #47, so wire leads soldered to a 47 is a good sub until you can find a 12.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> --- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
>> Can anyone on this fantastic list tell me whether all TR-4
>> transceivers had the 2 pin #12 lamp in the antenna circuit? I have
>> checked everything I can think of, and still have a weak signal input,
>> but can not seem to locate the lamp used as the fuse.
>>
>> Any and all suggestions welcome.
>>
>> Thanks es 73
>> Mike/K5VSE
>>
>>
> Please disregard the above post.I found it. Someone in the past has
> soldered in a grain-O-wheat lamp in place of the #12.
>
> Thanks again,
> Mike
>
>
>

390. Re: [DrakeRadio] Re: #12 lamp in TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-16 04:22:10 UTC
From: K5VSE
Topic: 387 Message: 390

Thanks Garey,

I got plenty of #12 lamps. I bought a lot of them when I was restoring some Gonset GSB-100 transmitters. They use about 6 in each one. The grain-O-wheat is open and it is mounted in the final cage right near the open frame relay.

73
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2007
"In God We Trust"

[Non-text portions of this message have been removed]

391. C Line questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-16 21:34:23 UTC
From: dynamic881964
Topic: 391 Message: 391

Hi ,
Recently traded and got a nice Drake C line. The transmitter would not mute the receiver but it did work. . .Once ! Next morning, I tried tuning it up but since that one time, it has had no output. I changed the driver tube and the 6EV7. The relay has been replaced. It acts like it is tuning up normally but no output on my swr/pwr meter.
Other than the above the receiver works great and right now I am using it with my old Kenwood TS520s for the transmitter. Trouble is, I see no place on the 520s to connect the R4c's mute cable.
I do have a second power supply for the T4XC and tried it, to rule out power supply problems with same results. Finals shot ?
The one time it did work, I made several contacts , got great signal and audio reports and the swr was 1.1 to 1 so that wasn't the problem.
Any help / suggestions greatly appreciated !
I love the Drake line and want to get it going as it should.
73's,
D aka KC8YOX

392. TR4C vox problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-17 15:14:31 UTC
From: Martin
Topic: 392 Message: 392

Hello i bought a TR4C with a AC3 upgrade to AC4R.
The VOX have a problem.
I use it at CW mode.
The VOX is working but i can not adjust the delay. I turned VOX and antivox pot and NO effect.
I checked 6EV7 voltage and resistance with chart and it is all OK.
any idea ?
Tnx
Martin
VE2EDK

393. Re: [DrakeRadio] TR4C vox problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-17 15:37:57 UTC
From: Martin
Topic: 392 Message: 393

I forgot the delay is abt 2 sec.
I want to reduce it.
On my other DRAKE it is shorter.
Tnx
Martin

Martin a ?crit :
>
> Hello i bought a TR4C with a AC3 upgrade to AC4R.
> The VOX have a problem.
> I use it at CW mode.
> The VOX is working but i can not adjust the delay. I turned VOX and
> antivox pot and NO effect.
> I checked 6EV7 voltage and resistance with chart and it is all OK.
> any idea ?
> Tnx
> Martin
> VE2EDK
>
>

394. Re: [DrakeRadio] TR4C vox problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-17 17:32:58 UTC
From: Garey Barrell
Topic: 392 Message: 394

Martin -

The only external adjustment for VOX Delay in the TR-4C is the VOX control. The higher (CW) the VOX control, the longer the delay. Setup is to advance the VOX control just enough to reliably activate the relay, any further will increase the drop out time.

Resistor R106 in the VOX amp section, (V19), can be changed to adjust the delay. Nominal value for R106 is 3.3M. Most likely R106 has gone up in value with age, lengthening the delay time. Alternately, R106 may have been changed by a previous owner to extend the delay.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> I forgot the delay is abt 2 sec.
> I want to reduce it.
> On my other DRAKE it is shorter.
> Tnx
> Martin
>
> Martin a ?crit :
>
>> Hello i bought a TR4C with a AC3 upgrade to AC4R.
>> The VOX have a problem.
>> I use it at CW mode.
>> The VOX is working but i can not adjust the delay. I turned VOX and
>> antivox pot and NO effect.
>> I checked 6EV7 voltage and resistance with chart and it is all OK.
>> any idea ?
>> Tnx
>> Martin
>> VE2EDK
>>
>>
>

395. Re: [DrakeRadio] TR4C vox problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-18 02:09:32 UTC
From: Martin
Topic: 392 Message: 395

Tnx Garey for your answer i will check the radio.
I hope you had good time this summer.
Martin
VE2EDK

Garey Barrell a ?crit :
>
> Martin -
>
> The only external adjustment for VOX Delay in the TR-4C is the VOX
> control. The higher (CW) the VOX control, the longer the delay. Setup
> is to advance the VOX control just enough to reliably activate the
> relay, any further will increase the drop out time.
>
> Resistor R106 in the VOX amp section, (V19), can be changed to adjust
> the delay. Nominal value for R106 is 3.3M. Most likely R106 has gone
> up in value with age, lengthening the delay time. Alternately, R106 may
> have been changed by a previous owner to extend the delay.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> Martin wrote:
> > I forgot the delay is abt 2 sec.
> > I want to reduce it.
> > On my other DRAKE it is shorter.
> > Tnx
> > Martin
> >
> > Martin a ?crit :
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> >> Hello i bought a TR4C with a AC3 upgrade to AC4R.
> >> The VOX have a problem.
> >> I use it at CW mode.
> >> The VOX is working but i can not adjust the delay. I turned VOX and
> >> antivox pot and NO effect.
> >> I checked 6EV7 voltage and resistance with chart and it is all OK.
> >> any idea ?
> >> Tnx
> >> Martin
> >> VE2EDK
> >>

> >>
> >
>
>

396. Drake L-4B Amp and L-4 PS for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-18 18:37:57 UTC
From: astroham2003
Topic: 396 Message: 396

In excellent condition. Second owner. Tubes are in excellent shape. Original chimneys.Cosmetically this amp is a 9 out of 10. Also have the L-4 Power Supply in excellent condition. I am presently using this amp and pwr supply on the air. I also purchased all the components and double fans to rebuild the power supply on the present existing factory boards. This will also go with the sale. I will sell this for $950.00 plus shipping. Hopefully there is a local that is interested. Pics available to serious inquires only please.

john-n4dsp
nr Greensboro, NC

397. What is weight of Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-20 13:41:32 UTC
From: astroham2003
Topic: 397 Message: 397

Anyone know what the weight of the Drake L-4B and power supply is?
Shows dimensions in the manual but unable to find weight.

john

398. Re: [DrakeRadio] What is weight of Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-20 14:22:28 UTC
From: Garey Barrell
Topic: 397 Message: 398

John -

The L-4B weighs 32 pounds.

The L4-PS weighs 44 pounds.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

astroham2003 wrote:
> Anyone know what the weight of the Drake L-4B and power supply is?
> Shows dimensions in the manual but unable to find weight.
>
> john
>

399. Re: [DrakeRadio] What is weight of Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-20 13:57:16 UTC
From: K5VSE
Topic: 397 Message: 399

Hi John,

According to my old catalog, the L4-B is 32 lbs, and the power supply is 43 lbs.

Hope that helps you. Remember, that is without packing boxes etc.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2007
"In God We Trust"

[Non-text portions of this message have been removed]

400. Re: What is weight of Drake L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-20 15:55:38 UTC
From: astroham2003
Topic: 397 Message: 400

Thanks Mike.

73
john-n4dsp

--- In DrakeRadio@yahoogroups.com, "K5VSE" <k5vse@...> wrote:
>
> Hi John,
>
> According to my old catalog, the L4-B is 32 lbs, and the power
supply is 43
> lbs.
>
> Hope that helps you. Remember, that is without packing boxes etc.
>
> 73,
> Mike/K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2007
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

401. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-26 07:30:16 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 401

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

402. Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-29 12:57:31 UTC
From: dynamic881964
Topic: 402 Message: 402

My tr3 works great on 20 and 40 m. I get great audio and signal reports... however on 80m I am told the audio has no low's and is very tinny sounding. I've changed the 6EV7 mic tube with same results. Also when listening on 80m the signals heard are all full of highs with no bass heard.
Any help ? Suggestions ?
Thanks !
Dave-KC8YOX

403. Re: [DrakeRadio] Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-29 14:32:19 UTC
From: Larry Taft
Topic: 402 Message: 403

One of the sideband filters has gone to the big sand pile in the sky.
You can retune the carrier osc to get slightly better sounding audio on
the 80 meter position but it will not be as good as original.

It is possible (lots of work) to replace the original "soup can" filter
assy with newer filters from a later model rig or buy new ones from
Inrad. The cost will greatly exceed the value of the rig.

I haven't heard of anyone repairing the original filter. It is possible
to do if you have access to a crystal making factory so you can get the
proper matched crystals. The soup can can be unsoldered so you can see
what is in there. Used standard HC6?? crystals.

73, Larry K2LT
drakerepair.com

dynamic881964 wrote:
> My tr3 works great on 20 and 40 m. I get great audio and signal
> reports... however on 80m I am told the audio has no low's and is very
> tinny sounding. I've changed the 6EV7 mic tube with same results.
> Also when listening on 80m the signals heard are all full of highs
> with no bass heard.
> Any help ? Suggestions ?
> Thanks !
> Dave-KC8YOX
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

404. Re: [DrakeRadio] Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-29 14:34:22 UTC
From: Garey Barrell
Topic: 402 Message: 404

Dave -

The problem you are seeing is one of two problems.

One is fairly simple and easy to rectify. The Carrier oscillator is off frequency, (should be 9.0000 MHz,) but if this is the problem one band will be high pitched and the other will be low pitched. The fix is to adjust the trimmer cap (C130) on top of the right rear corner of the chassis for 9.0000 MHz if you have a counter, and then "fine tuned" for equal noise pitch on both filters in receive. This is described in section VIII, B in the manual. From your description, this is probably not your problem, since the "good" sideband doesn't sound "bassy", and you probably won't be able to find a spot where the noise is equal.

The other possibility is much more serious and is usually the problem when one sideband is "good" and the other is "bad". I haven't ever worked this all the way out, (Al Parker, W8UT probably has!,) but even though 40M is LSB, and 20M is USB, because of the mixing scheme used in the TR-3/4 the same "half" of the filter is used on both bands. I believe 80M uses the 'other half' for LSB and that half of the "soupcan filter" has failed. You can check in receive, by tuning in the calibrator and slowly tuning through the steady signal while watching the S-Meter. As you get close to the Cal frequency, the S-Meter will start to rise fairly rapidly and if you keep tuning in the same direction the meter will peak, remain fairly steady for a couple of kHz, and then rapidly fall off on the other side back into the noise level. This pattern follows the shape of the filter curve shown in the manual. What you will probably find is that one side of the filter will behave this way, and this is the half used on 40 and 20M. The other half will probably have a much narrower peak, and there may even be a "step" in one side of the normally steep sides.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

dynamic881964 wrote:
> My tr3 works great on 20 and 40 m. I get great audio and signal
> reports... however on 80m I am told the audio has no low's and is very
> tinny sounding. I've changed the 6EV7 mic tube with same results.
> Also when listening on 80m the signals heard are all full of highs
> with no bass heard.
> Any help ? Suggestions ?
> Thanks !

> Dave-KC8YOX
>
>

405. Re: Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-30 17:13:02 UTC
From: dynamic881964
Topic: 402 Message: 405

Hi Gary,
Tried what you suggested (as did Larry Thanks to both of you !) ,
but with no luck. The 9mhz osc. adjustment made very little difference
but there was a very tiny improvement.
I guess the filter is shot but I can't seem to locate a replacement
and am guessing no one make them ?
This rig is my favorite but oh well guess it will be limited to 20
and 40m for now.
Thanks for all your help !!!
73,
Dave

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Dave -
>
> The problem you are seeing is one of two problems.
>
> One is fairly simple and easy to rectify. The Carrier oscillator is
off
> frequency, (should be 9.0000 MHz,) but if this is the problem one band
> will be high pitched and the other will be low pitched. The fix is to
> adjust the trimmer cap (C130) on top of the right rear corner of the
> chassis for 9.0000 MHz if you have a counter, and then "fine tuned" for
> equal noise pitch on both filters in receive. This is described in
> section VIII, B in the manual. From your description, this is probably
> not your problem, since the "good" sideband doesn't sound "bassy", and
> you probably won't be able to find a spot where the noise is equal.
>
> The other possibility is much more serious and is usually the problem
> when one sideband is "good" and the other is "bad". I haven't ever
> worked this all the way out, (Al Parker, W8UT probably has!,) but even
> though 40M is LSB, and 20M is USB, because of the mixing scheme used in
> the TR-3/4 the same "half" of the filter is used on both bands. I
> believe 80M uses the 'other half' for LSB and that half of the "soupcan
> filter" has failed. You can check in receive, by tuning in the
> calibrator and slowly tuning through the steady signal while watching
> the S-Meter. As you get close to the Cal frequency, the S-Meter will
> start to rise fairly rapidly and if you keep tuning in the same
> direction the meter will peak, remain fairly steady for a couple of
kHz,
> and then rapidly fall off on the other side back into the noise level.
> This pattern follows the shape of the filter curve shown in the
manual.
> What you will probably find is that one side of the filter will behave

> this way, and this is the half used on 40 and 20M. The other half will
> probably have a much narrower peak, and there may even be a "step" in
> one side of the normally steep sides.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> dynamic881964 wrote:
> > My tr3 works great on 20 and 40 m. I get great audio and signal
> > reports... however on 80m I am told the audio has no low's and is
very
> > tinny sounding. I've changed the 6EV7 mic tube with same results.
> > Also when listening on 80m the signals heard are all full of highs
> > with no bass heard.
> > Any help ? Suggestions ?
> > Thanks !
> > Dave-KC8YOX
> >
> >
>

406. Re: [DrakeRadio] Re: Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-30 17:18:52 UTC
From: K5VSE
Topic: 402 Message: 406

Dave,

You might check the "E" place. I just saw a TR-3 parts rig at a very low price. Can't remember how long it has left, and it has some tubes missing and no cabinet.

Just a thought!

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2007
"In God We Trust"

[Non-text portions of this message have been removed]

407. Re: [DrakeRadio] Re: Drake TR3 Problem . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-30 19:10:09 UTC
From: Garey Barrell
Topic: 402 Message: 407

Unfortunately, that's often the reason a TR-3 or early TR-4 has been parted out.! It's one of a very few "unobtainium" parts in the 4 Series transmitters/transceivers, and a relatively high failure rate part. The filter assembly is a "handmade" device, eight individual HC-6/U crystals and a couple of caps wired up to the back of a rotary switch and soldered into a tin-plated can. (Hence the "soupcan" description.) Most likely one of the crystals has failed. At best, it's a four-pole filter, which is marginal by today's standards, resulting in less carrier suppression and poorer unwanted sideband suppression at low audio frequencies. Later filters were eight-pole, much steeper skirts and therefore better carrier and unwanted sideband suppression.

So unless the rig has sentimental value making it worth the $200+ expense of the Inrad filters, or retrofitting later twin hermetic filters with the inherent risk of getting stuck with _another_ bad filter from a less than honorable seller, it becomes a "parts unit". Sound familiar?!?! :-)

If you are of the homebrewing nature, there are programs available for designing ladder filters (EMRFD has a great one) and computer crystals are dirt cheap. They are cheap enough that you can buy a few dozen and select appropriate matched pieces to make a single filter. I don't know how many you'd have to buy to be able to select enough for TWO filters spaced the appropriate distance to allow the use of a single carrier oscillator frequency!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

K5VSE wrote:
> Dave,
>
> You might check the "E" place. I just saw a TR-3 parts rig at a very low
> price. Can't remember how long it has left, and it has some tubes missing
> and no cabinet.
>
>

408. TR4C red neon light

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-31 00:40:14 UTC
From: Martin
Topic: 408 Message: 408

Hello to all
i am cleaning a TR4C, fix the delay vox (tnx to Garey - K4OAH)
and now the front red neon is light. Maybe with years it become not
very bright
or voltage drop ???
any idea ???
tnx
Martin
VE2EDK

409. Drake R8 feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-31 00:41:53 UTC
From: Martin
Topic: 409 Message: 409

Hello to all
i am always looking for a Drake R8 front feet.
Tnx
Martin
VE2EDK

410. Re: [DrakeRadio] TR4C red neon light

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-08-31 00:57:47 UTC
From: Garey Barrell
Topic: 408 Message: 410

Martin -

Neon bulbs do tend to dim with age. The glass is darkened by material sputtered off of the electrodes.

You could check R164, if it has gone up drastically from it's nominal 33k, but usually the voltage just drops to where the bulb doesn't fire at all.

The bulb itself is an NE-2E, which nowadays is known as an A9A. This is a tubular glass bulb (0.25" dia or less and 0.75" long or less) with wire leads out one end. You might be able with care to dig out the material that is filling the back of the red plastic part, remove the old bulb and replace it with a new one. I've never tried it, so don't know what the filler material is. Perhaps a hot soldering iron would melt it out? I know it will melt the red plastic part!! Possibly the "plug" could be "drilled" out with a twist drill held in a pin vise? Perhaps "chewed" out with a small grinder or Dremel bit?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello to all
> i am cleaning a TR4C, fix the delay vox (tnx to Garey - K4OAH)
> and now the front red neon is light. Maybe with years it become not
> very bright
> or voltage drop ???
> any idea ???
> tnx
> Martin
> VE2EDK
>
>

411. Drake Microphone Jacks and original Drake Manuals FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-01 14:56:54 UTC
From: Ken Simpson, W8EK
Topic: 411 Message: 411

For Sale:

I found a couple of 0.206 inch chassis mount jacks,
similar to what is used in the Drake gear for a microphone
jack.

Both of these appear to be unused, never soldered to. One
is labeled JJ-033 and the other SCA-2B. They are 2 conductors,
plus the ground. $5 each

Original Drake Manuals for sale:

Drake TR-33 C transceiver
Instruction manual for the 2 meter rig.
It even includes a warranty card, welcome letter,
and 1978 spare parts price list.
Close to new condition. $10

Drake AA-10 power amplifier
Instruction manual for the 2 meter amp.
Close to new condition. $6

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

412. OT: LoTW contest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-05 15:34:52 UTC
From: Don
Topic: 412 Message: 412

Thought I would mention this here since many hams who are
computer/internet users are also signed up
on ARRL's LoTW.
For the Logbook of the World users. I believe they are still
hoping for more sponsors. I may be wrong, but I believe the cost of
sponsoring a plague for this is around $50.

http://www.lotwcontest.com/

Also, I would like to take a second to say thanks to
everyone for joining us on this reflector!

Don
AD7LL

413. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-09 07:26:40 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 413

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

414. Re: Drake TR3 Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-14 04:17:57 UTC
From: dynamic881964
Topic: 414 Message: 414

Hi All,
Good news. I got the TR3 working and without any filter problems.
I had to go away for a funeral and while there, found some Caig
De-Oxit . Bought it, got home cleaned the band switch and function
switch, also the tube sockets.
She works fine now on all bands with good reports on signal and audio.
I love the rig (always have).
Thanks to those who replied and best of luck to all in the group.
73's for now,
Dave KC8YOX

415. Re: [DrakeRadio] Re: Drake TR3 Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-14 15:05:22 UTC
From: Don
Topic: 414 Message: 415

Good deal, and thanks for the update!
Don

----- Original Message -----
From: dynamic881964
To: DrakeRadio@yahoogroups.com
Sent: Thursday, September 13, 2007 10:17 PM
Subject: [DrakeRadio] Re: Drake TR3 Problem

Hi All,
Good news. I got the TR3 working and without any filter problems.
I had to go away for a funeral and while there, found some Caig
De-Oxit . Bought it, got home cleaned the band switch and function
switch, also the tube sockets.
She works fine now on all bands with good reports on signal and audio.
I love the rig (always have).
Thanks to those who replied and best of luck to all in the group.
73's for now,
Dave KC8YOX

[Non-text portions of this message have been removed]

416. Looking For 9.0 Mhz IF Crystal for TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-18 09:31:58 UTC
From: Bill
Topic: 416 Message: 416

Hello everyone. I been meaning to ask the Group for awhile now if anyone out there has a 9.0 Mhz IF Crystal For a TR-4....I think thats what I need to get the ole girl going again. It is located on the bottom side of the radio in the back of the radio near the Ground stub....One of The wires on the crystal broke off even with the bottom of the crystal. i am hoping that I have it pegged correctly as the 9.0 Mhz IF Crystal. My eyes just are not what they used to be.....The radio is in outstanding shape and was just serviced not long before the wire on the crystal broke. I got mad because it broke so soon after being re-aligned and serviced and all that I just went out and bought a Icom 706 but it broke after a couple of years and I was told that it would be cheaper to replace than to repair. So I got mad again and got the Kenwood TS-2000...I have been very happy with it and it works great. But I sure do miss the glow of those tubes. and with winter comming on I could use the extra Heat in the Shack...LOL....It is a great rig to operate and I hope to have it back on the air by winter....If anyone out there has what I need please let me know, and also let me know how much and the best way for me to pay you.....Thanks everyone. I'll be sitting here with my fingers crossed.....

Bill In Ohio...73's...De KC8ILP

http://www.kc8ilp.bravehost.com/ Always being updated
http://www.billslisteningpost.bravehost.com/ Live feed down until I get another audio card...

Just a good link to have
http://www.globalincidentmap.com/home.php

[Non-text portions of this message have been removed]

417. Re: [DrakeRadio] Looking For 9.0 Mhz IF Crystal for TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-19 02:03:28 UTC
From: Don
Topic: 416 Message: 417

http://www.sherweng.com/ham.html

This is one source anyway for band crystals , filters, and such for the tr-4

----- Original Message -----
From: Bill
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 18, 2007 3:31 AM
Subject: [DrakeRadio] Looking For 9.0 Mhz IF Crystal for TR-4

Hello everyone. I been meaning to ask the Group for awhile now if anyone out there has a 9.0 Mhz IF Crystal For a TR-4....I think thats what I need to get the ole girl going again. It is located on the bottom side of the radio in the back of the radio near the Ground stub....One of The wires on the crystal broke off even with the bottom of the crystal. i am hoping that I have it pegged correctly as the 9.0 Mhz IF Crystal. My eyes just are not what they used to be.....The radio is in outstanding shape and was just serviced not long before the wire on the crystal broke. I got mad because it broke so soon after being re-aligned and serviced and all that I just went out and bought a Icom 706 but it broke after a couple of years and I was told that it would be cheaper to replace than to repair. So I got mad again and got the Kenwood TS-2000...I have been very happy with it and it works great. But I sure do miss the glow of those tubes. and with winter comming on I could use the extra Heat in the Shack...LOL....It is a great rig to operate and I hope to have it back on the air by winter....If anyone out there has what I need please let me know, and also let me know how much and the best way for me to pay you.....Thanks everyone. I'll be sitting here with my fingers crossed.....

Bill In Ohio...73's...De KC8ILP

http://www.kc8ilp.bravehost.com/ Always being updated
http://www.billslisteningpost.bravehost.com/ Live feed down until I get another audio card...

Just a good link to have
http://www.globalincidentmap.com/home.php

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

418. Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-22 20:36:08 UTC
From: Garey Barrell
Topic: 418 Message: 418

Does anyone have a TR-4C with a serial number below 34150? Or a TR-4 ABOVE 34150??

Possibly a schematic of either numbered "around" 34150?? I believe the schematic date is 32473, but not clear.

Thanks for looking!

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

419. Re: [DrakeRadio] Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-22 22:42:11 UTC
From: Martin
Topic: 418 Message: 419

I will check Gary with pleasure.
Martin
VE2EDK

Garey Barrell a ?crit :
>
> Does anyone have a TR-4C with a serial number below 34150? Or a TR-4
> ABOVE 34150??
>
> Possibly a schematic of either numbered "around" 34150?? I believe the
> schematic date is 32473, but not clear.
>
> Thanks for looking!
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>

420. Re: [DrakeRadio] Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-22 23:53:09 UTC
From: Martin
Topic: 418 Message: 420

I have a TR4 30352 manual?
Martin

Garey Barrell a ?crit :
>
> Does anyone have a TR-4C with a serial number below 34150? Or a TR-4
> ABOVE 34150??
>
> Possibly a schematic of either numbered "around" 34150?? I believe the
> schematic date is 32473, but not clear.
>
> Thanks for looking!
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>

421. Re: [DrakeRadio] Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-22 23:59:53 UTC
From: Garey Barrell
Topic: 418 Message: 421

Martin 0-

What is the full number on that schematic?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> I have a TR4 30352 manual?
> Martin
>
> Garey Barrell a ?crit :
>
>> Does anyone have a TR-4C with a serial number below 34150? Or a TR-4
>> ABOVE 34150??
>>
>> Possibly a schematic of either numbered "around" 34150?? I believe the
>> schematic date is 32473, but not clear.
>>
>> Thanks for looking!
>>
>> --
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>
>>

422. Re: [DrakeRadio] Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-23 01:04:05 UTC
From: Martin
Topic: 418 Message: 422

schematic number: 1086828500

Garey Barrell a ?crit :
>
> Martin 0-
>
> What is the full number on that schematic?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> Martin wrote:
> > I have a TR4 30352 manual?
> > Martin
> >
> > Garey Barrell a ?crit :
> >
> >> Does anyone have a TR-4C with a serial number below 34150? Or a TR-4
> >> ABOVE 34150??
> >>
> >> Possibly a schematic of either numbered "around" 34150?? I believe the
> >> schematic date is 32473, but not clear.
> >>
> >> Thanks for looking!
> >>
> >> --
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B & C-Line Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
>
>

423. Re: [DrakeRadio] Manual Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-23 01:52:38 UTC
From: Garey Barrell
Topic: 418 Message: 423

Thanks very much. I have that one.

Garey

Martin wrote:
> schematic number: 1086828500
>
> Garey Barrell a ?crit :
>
>> Martin 0-
>>
>> What is the full number on that schematic?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>
>> Martin wrote:
>>
>>> I have a TR4 30352 manual?
>>> Martin
>>>
>>>
>

424. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-23 07:23:53 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 424

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

425. Fw: [drakelist] TR7 For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-27 01:03:34 UTC
From: Don
Topic: 425 Message: 425

----- Original Message -----
From: Frank Woolfe
To: Drakelist
Sent: Wednesday, September 26, 2007 4:34 PM
Subject: [drakelist] TR7 For Sale

For Sale,

TR7 immaculate condition, SN 4455, fitted with 6kHz, 2.5kHz, 1.8kHz and 500hz filters, AUX7 board, Fan option, Display upgrade, PA upgrade, RV7 Ext VFO SN 2352, 7077 mike, PS 75 Supply SN 636, service manual, operators manual, original advertising brochures, extender cards, spare output transistors and PIN diodes. Goes as complete lot will not split. please contact off list serious buyers only please..

Frank W VK5MFW

[Non-text portions of this message have been removed]

426. Fw: [drakelist] TR7 For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-27 01:14:20 UTC
From: Don
Topic: 425 Message: 426

sorry, i for got to give an addy for him:

frankwoolfe AT optusnet dot com dot au

----- Original Message -----
From: Frank Woolfe
frankwoolfe AT optusnet.com.au
To: Drakelist
Sent: Wednesday, September 26, 2007 4:34 PM
Subject: [drakelist] TR7 For Sale

For Sale,

TR7 immaculate condition, SN 4455, fitted with 6kHz, 2.5kHz, 1.8kHz and 500hz filters, AUX7 board, Fan option, Display upgrade, PA upgrade, RV7 Ext VFO SN 2352, 7077 mike, PS 75 Supply SN 636, service manual, operators manual, original advertising brochures, extender cards, spare output transistors and PIN diodes. Goes as complete lot will not split. please contact off list serious buyers only please..

Frank W VK5MFW

[Non-text portions of this message have been removed]

427. Other Drake list?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-27 12:54:20 UTC
From: Steve Galchutt
Topic: 427 Message: 427

Looking for the other Drake List. I was getting it for several years but then I got dropped because of changing servers or??? Anyone know how to get signed on again?

Tks Steve/n0tu

428. Re: [DrakeRadio] Other Drake list?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-27 14:00:52 UTC
From: Don
Topic: 427 Message: 428

Try this. As list owner here, my goal was for a spam free list and as a link to better gateways for Drake
related info, including the zerobeat drake list.
Don
AD7LL

Submissions: drakelist@...
Unsubscribe: majordomo@... - unsubscribe drakelist in body
Hopelessly Lost: majordomo@... - help in body of message
Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
---

----- Original Message -----
From: Steve Galchutt
To: DrakeRadio@yahoogroups.com
Sent: Thursday, September 27, 2007 6:54 AM
Subject: [DrakeRadio] Other Drake list?

Looking for the other Drake List. I was getting it for several years
but then I got dropped because of changing servers or??? Anyone know
how to get signed on again?

Tks Steve/n0tu

[Non-text portions of this message have been removed]

429. TR4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 04:31:38 UTC
From: JOHN
Topic: 429 Message: 429

Working on tr4xb and cannot see any bias current on the meter? Have tried to adjust bias voltage up and down still nothing. The bias voltage is ok out of the ac4 supply, also checked the meter itself seems to be working fine. Cleaned the switch that controls the meter function and its working fine.......John

430. T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 06:18:43 UTC
From: JOHN
Topic: 430 Message: 430

After checking all settings I also notice that it also does not key up in any mode. Could this problem be part of the no bias problem or a whole different issue....John

431. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 14:55:10 UTC
From: Garey Barrell
Topic: 430 Message: 431

John -

First question is do you have a key plugged into the transmitter? SOME
of the T-4X series will not key in TUNE if there is an open key plugged in.

Next thing to check is the back panel of the transmitter. IF there are
two RCA jacks near the center of the back panel, _vertically aligned_,
the transmitter has been modified for use with the external
transverters. This modification disconnects the screen voltage from the
final and would cause your problem. You need to connect a cable between
those two jacks to restore screen voltage.

IF the jacks are NOT there, just two holes where they would go, that's
not the problem!! :-)

Next is to see if the relay is pulling in when you switch to TUNE mode.
You should be able to hear it click when you switch to TUNE, and click
again, after a short delay, when you switch back to standby. IF it does
NOT click, you could try substituting the 6EV7 tube if you have a
spare. If you don't have a spare tube, you can measure the voltage on
the Plate of the 6EV7, Pin 6. You should see about 200 VDC. If you see
NO voltage, they relay coil may be open.

If the relay clicks but you still have no Plate current, further
troubleshooting will be required. You may have a relay contact that is
bent or broken, a broken wire, or possibly even a corroded switch
contact. "Exercising" the rotary switches will usually clean the
contacts sufficiently, unless the transmitter has been stored in a very
unfriendly environment.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHN wrote:
> After checking all settings I also notice that it also does not key up
> in any mode. Could this problem be part of the no bias problem or a
> whole different issue....John
>
>
>

432. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 16:28:48 UTC
From: JOHNQRZ@AOL.COM
Topic: 430 Message: 432

Gary,

Thanks for your help here is what I see so far. No mods for a transverter. I was wrong about the rig not keying it is the relay is very quiet, It does key when put in tune and in ssb with the mic. I do not see any voltage on pin 7 and the tube tests ok on my tube tester. I have cleaned switches and relay contacts with DeoxIT and the relay contacts LOOK ok.....John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

433. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 16:53:44 UTC
From: Garey Barrell
Topic: 430 Message: 433

OK.

I assume you have measured the plate voltage, which should be about 700 VDC no load, 650 full load. You can verify that you have HV at the plate cap of either final tube.

Make sure that the Meter switch on the front panel between the TUNE and LOAD controls is in the OUT position. Exercise that switch by pushing it in and out a few times.

It sounds like the cathodes of the final stage are not getting to ground. All that's necessary for Bias current is that the HV and screen voltage are present, the Final filaments are lit, and the cathodes of the Finals are grounded.

All Final stage voltages can be checked at the feedthroughs along the side of the underchassis shield next to the PA compartment. Starting closest to the rear of the chassis, they are as follows:

1 - Plate Supply (+650 VDC)
2 - Cathodes (should show close to 0V when keyed).
3 - Screens (+260 VDC)
4 - Grids (~ -55 VDC)
5 - Filaments (6.3 VAC)

If these voltages are correct, the next step is to turn off the transmitter, disconnect the power supply, (wait a minute or so and then short #1 and #3 above to the chassis,) and do some ohmmeter checks.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Gary,
>
> Thanks for your help here is what I see so far. No mods for a
> transverter. I was wrong about the rig not keying it is the relay is very quiet, It
> does key when put in tune and in ssb with the mic. I do not see any voltage on
> pin 7 and the tube tests ok on my tube tester. I have cleaned switches and
> relay contacts with DeoxIT and the relay contacts LOOK ok.....John
>
>

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>
> ********** See what's new at http://www.aol.com
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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434. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 18:37:00 UTC
From: JOHNQRZ@AOL.COM
Topic: 430 Message: 434

Gary,

All voltages seem fine cathodes do show about 5 volts filaments show
12.6 volts not 6.3 but I think at the feed threw that is correct,as filament
voltages look ok at the tubes. Plate voltage at tubes 696vdc.....Makes my
head hurt.....Hi Hi

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

435. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 20:09:20 UTC
From: Garey Barrell
Topic: 430 Message: 435

Yes, you are correct. Should be 12.6 VAC at the feedthru. That's what
I get for going from memory.....

If you have 700 V on the plates, 250 V on the screens and 5 V on the
cathodes you should be drawing plate current, settable to 0.70A with the
Bias control. No other connections or voltages needed! Check the
voltages at the tube sockets and at the plate cap of the finals.

Voltage at either Plate cap of the final = 700 VDC.

Voltage at Screens (Pin 1 or 7) = 250 VDC.

Voltage at Grids (Pin 2 or 6) = ~ -55 VDC.

Voltage at Cathodes (Pin 3) = ~ 3-5 VDC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Gary,
>
> All voltages seem fine cathodes do show about 5 volts filaments show
> 12.6 volts not 6.3 but I think at the feed threw that is correct,as filament
> voltages look ok at the tubes. Plate voltage at tubes 696vdc.....Makes my
> head hurt.....Hi Hi
>
>
>
>

436. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-09-30 21:39:15 UTC
From: JOHNQRZ@AOL.COM
Topic: 430 Message: 436

Ok will do have to hang it up till tonight......going to a concert but will let you know what I find.......Thanks for all your help....John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

437. Need TR-4c Sideband Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-01 02:02:20 UTC
From: Dave Vest
Topic: 437 Message: 437

Working on putting life back into a TR-4c and appears it took a hit on the sideband selector knob and broke the switch wafer in half.
Wonder if any of you fine folks here on the Drake list have a parts radio with this switch in it or switch available?

Thanks,

Dave, K8DV

k8dv at fuse.net

438. T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-01 05:29:53 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 438

Gary,

Ok checked voltages at tube sockets all look ok except pin 3 cathodes on both are showing 32vdc. Your last said they should be 3-5vdc or did you mean 35vdc? If you meant 35vdc we are back to square one.....John.....Are We Having Fun Yet!

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

439. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-01 21:31:38 UTC
From: Garey Barrell
Topic: 438 Message: 439

John -

Nope, that's getting closer to the problem. The voltage at either Pin 3 of the Final tubes should be a volt or so at most.

There are 15 ohm 1W resistors from each Pin 3 to a common point, an RFC from there to the feedthrough, and a 2.7 ohm resistor from there to ground when in TUNE mode. Measure the voltage at each Pin3, at the common point, and at the feedthrough. Sounds like either the RFC is open or the 2.7 ohm resistor is. Other possibilities are a bad relay contact, switch contact, etc., depending upon where you read close to 0 volts!

We do this for fun... We do this for fun... We do this for ...

73, Garey - K4OAH
Glen Allen, VA

JOHNQRZ@... wrote:
>
>
> Gary,
>
> Ok checked voltages at tube sockets all look ok except pin 3 cathodes on
> both are showing 32vdc. Your last said they should be 3-5vdc or did you mean
> 35vdc? If you meant 35vdc we are back to square one.....John.....Are We
> Having Fun Yet!
>
>
>

440. RE: [DrakeRadio] Need TR-4c Sideband Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 01:37:43 UTC
From: John Page
Topic: 437 Message: 440

I have one in the basement. I can take the switch out tomorrow night. Tell me what you want to pay and well see how close we are. (I am easy). John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: k8dv@...
Date: Mon, 1 Oct 2007 02:02:20 +0000
Subject: [DrakeRadio] Need TR-4c Sideband Switch

Working on putting life back into a TR-4c and appears it took a hit on

the sideband selector knob and broke the switch wafer in half.

Wonder if any of you fine folks here on the Drake list have a parts

radio with this switch in it or switch available?

Thanks,

Dave, K8DV

k8dv at fuse.net

_____
Connect to the next generation of MSN Messenger
http://imagine-msn.com/messenger/launch80/default.aspx?locale=en-us&source=wlmailtagline

[Non-text portions of this message have been removed]

441. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 05:25:10 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 441

Gary,

WOW you are the man!! RFC-3 is open I will pull it tonight and see if
the wire is broken where I can get at it..... wishful thinking I am
sure. The other one is ok reads about 19 ohms but does have a few lose windings.
Are replacements available I don't have a parts list.....Looks like I am
getting closer, thanks to you.....John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

442. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 14:01:03 UTC
From: Garey Barrell
Topic: 438 Message: 442

Ah, progress!! Sometimes the wire loosens from the pie and breaks off
where it is soldered to the lead. Obviously you can pull off a turn or
three to get enough to repair it. 5-10 turns wouldn't hurt if necessary.

John -

I believe that's a 750 uHy choke, probably should be rated at 500 mA,
but likely is less than that. Certainly it has to handle the full plate
current, which is typically 350 mA at resonance, but can go to 400 mA or
more off resonance. Hopefully, (for the final tube's sake!,) that off
resonance current won't be for very long..... :-)

I have replacements here somewhere, but my parts units haven't surfaced
yet since the move. If I can't find mine, John Kriner probably has them.

Keep me posted!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Gary,
>
> WOW you are the man!! RFC-3 is open I will pull it tonight and see if
> the wire is broken where I can get at it..... wishful thinking I am
> sure. The other one is ok reads about 19 ohms but does have a few lose windings.
> Are replacements available I don't have a parts list.....Looks like I am
> getting closer, thanks to you.....John
>
>
>

443. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 15:56:41 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 443

GARY,

Again thanks for your help I will keep you advised of my progress,it got
to late last night to go any further with it so I brought it with me to work
and hope to have time today to check it out.

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

444. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 20:46:04 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 444

GAREY,

Had some time and pulled the RFC broken wire was about 7 turns under so I soldered it back and rewound it as best I could. I will do a test tonight (hope I don't let the magic smoke out) will let you know the results.

This radio came to me from an elderly ham and the power supply was shot.He said it just quit one day and did so with a loud bang that was heard across the street? He was outside at the time and said he heard it but I tend to think that was just a quinkie-dink. However the high voltage windings on the power transformer were shot. The rig as I got it had bad final tubes in it as well as this problem hope I don't find any more.

John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

445. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-02 21:11:32 UTC
From: Garey Barrell
Topic: 438 Message: 445

John -

Well that's probably what got the RFC.

I could count on one finger the bad transformers I've seen in 40 years of AC-3/4 power supplies. Most likely the filter cap(s) - or a diode - shorted, which should have taken out the fuse. Unless someone replaced the 6A fuse with a piece of aluminum house wire.! Don't laugh, I've seen it. And the transformer survived, the rectifier

What often happens is that the Bias supply quits, usually as a result of a shorted filter cap, which keys the transmitter (even if in Standby), and with no bias on the finals, they draw max current until whatever lets go. In your case it sounds like it was the RFC.

While you are in there, check the value and condition of the 68 ohm screen resistors and the 15 ohm cathode resistors on the final, and verify the value of the 2.7 ohm meter shunt. These are in the direct path of the excessive plate current along with the RFC and will often change value or just crack. The absolute value of the 15 ohm resistors isn't super critical, but the closer they are to the same value, the better.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> GAREY,
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> think that was just a quinkie-dink. However the high voltage windings on the
> power transformer were shot. The rig as I got it had bad final tubes in it as
> well as this problem hope I don't find any more.
>
> John
>
>

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>
> ********** See what's new at http://www.aol.com
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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446. T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-03 07:16:29 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 446

Hi Garey- Its Alive,Its Alive Well for the most part! Was able to set the bias and load it up on the dummy load tonight. The magic smoke stayed inside nothing went bang all seemed pretty good till I went looking for the signal. I wanted to listen to the audio on another rig but could not find it anywhere in the band? Glad I was on the dummy load. I guess the Vfo is a Ufo (unidentified frequency oscillator) oh well that's why the call it amateur. So I hooked it up to the R-4b set it up for transceive and after a few cable problems (dirty RCA connectors) and a lot of DeoxIT tried again and damn if it diddent work! I made a contact on 75meters and got a decent report although I was slightly of frequency op error for sure. I still have some bugs to work out and need to learn how to operate it properly also should neutralize the finals although it seems to be as happy as I am.

Thanks for all your help I have learned a lot thanks to you and had fun doing it as well. My next project is a Johnson Viking Ranger and an Hammarlund SP-600. I always wanted an AM station The SP-600 is already up and is Great the Viking is another story. So best 73 hope to work you sometime.....John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

447. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-03 13:44:26 UTC
From: Garey Barrell
Topic: 438 Message: 447

John -

Cool! Always nice to get one going again.

There are THREE signals that have to be present for the T-4XB to transmit.

1. The Carrier Oscillator - 5.645 MHz Crystal controlled. (Ya got this one!)

2. The PTO - Variable from 4.955 - 5.455 controlled by Main Tuning knob.

3. Band Oscillator - 11.1 MHz above the bottom of each Band - Crystal controlled, selected by Band switch.

Example for 80M

Band Osc 14.6 MHz (3.5 + 11.1) - PTO Dial set to 000 (5.455 MHz) = PreMixer (9.145 MHz).

PreMixer (9.145 MHz) - Carrier Osc (5.645 MHz) = 3.500 MHz.

The PreMixer signal is what is patched between the two units on the INJ cable for Transceive.

So the diagnosis is ... The transmitter isn't working by itself because _ITS_ PreMixer signal is not present. So Either the Band Osc is not running, (XTALS switch not set to NORM, missing crystal, bad crystal, or bad Q3), or the PTO is not working, or the PreMixer (V8) is not working. When in transceive, the PreMixer signal comes from the R-4B, substituting for all this stuff!

Check position of XTALS switch.
Try another band, eliminate bad or missing crystal.
Listen for the Band Osc on a separate GC receiver. (Might need a wire from GC receiver antenna placed near Q3.)
Listen for PTO on a separate GC receiver. (000 on dial = 5.455 MHz)
Listen for PreMixer on a separate GC receiver. (Should be at 9.145 MHz for 80M Band.)

If you don't have a manual, you might look at my CD at my webpage below. It has CLEAR PDF files of both manual, along with photos of both units with parts identified and located.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Hi Garey- Its Alive,Its Alive Well for the most part! Was able to set the
> bias and load it up on the dummy load tonight. The magic smoke stayed inside
> nothing went bang all seemed pretty good till I went looking for the signal.
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> anywhere in the band? Glad I was on the dummy load. I guess the Vfo is a Ufo (
> unidentified frequency oscillator) oh well that's why the call it amateur. So I
> hooked it up to the R-4b set it up for transceive and after a few cable
> problems (dirty RCA connectors) and a lot of DeoxIT tried again and damn if it
> diddent work! I made a contact on 75meters and got a decent report although I
> was slightly of frequency op error for sure. I still have some bugs to work
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> finals although it seems to be as happy as I am.
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> Thanks for all your help I have learned a lot thanks to you and had fun
> doing it as well. My next project is a Johnson Viking Ranger and an
> Hammarlund SP-600. I always wanted an AM station The SP-600 is already up and is Great
> the Viking is another story. So best 73 hope to work you
> sometime.....John
>
>
>

448. Re: [DrakeRadio] T4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-03 15:53:23 UTC
From: JOHNQRZ@AOL.COM
Topic: 438 Message: 448

Thanks Garey I Have checked out you site and will place an order
today........73

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

449. T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 01:21:00 UTC
From: JOHNQRZ@AOL.COM
Topic: 449 Message: 449

Gary- well here we go again....today I came home and thought I would get on 20 and play with the 'new rig' and during the tune up into a dummyload she went to sleep. I get no plate current at all, no smoke no bang no power out. The blue panel lights are pretty however.

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

450. Re: [DrakeRadio] T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 01:38:39 UTC
From: Garey Barrell
Topic: 449 Message: 450

Did you check those resistors I specified in the last message?

Do you have bias current on the Final?

While you're in there also check R26. It's another resistor that can be
damaged by heavy overload like this one suffered. R26 can also be
damaged by careless alignment with a metal alignment tool.

They really are VERY reliable transmitters until they are abused beyond
reason. I ran three of them on RTTY Autostart 24/7 back in the 60's
with full power keydown transmissions exceeding 30 minutes with NO
failures aside from one 12BY7 whose filament just opened up one day.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Gary- well here we go again....today I came home and thought I would get on
> 20 and play with the 'new rig' and during the tune up into a dummyload she
> went to sleep. I get no plate current at all, no smoke no bang no power out.
> The blue panel lights are pretty however.
>
>
>

451. Re: [DrakeRadio] T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 04:36:56 UTC
From: JOHNQRZ@AOL.COM
Topic: 449 Message: 451

Gary- Yep I did check them all was ok and I do still have bias......I had an ATV net to run tonight so could not work on it, may not get to it till Sunday. Hope its something simple.

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

452. Re: [DrakeRadio] T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 13:59:18 UTC
From: Garey Barrell
Topic: 449 Message: 452

OK

If you have bias current the Final has good DC, indicating that all DC voltages are good. So it's gonna be something "little". R26 is a suspect.

Did you investigate the presence (or absence) of the Band / PTO, or are you still using the receiver Premix to transmit? The INJ cable didn't fall out did it?? :-)

You can check the entire transmit chain (less the Premix signal) by trying to load into a _dummy load_ with the RF TUNE peaked on the signal around 5.5 - 6 with the band switch on 80M. Essentially you are tuning up on the 5.645 kHz Carrier Oscillator frequency.

Keep me posted!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

JOHNQRZ@... wrote:
>
>
> Gary- Yep I did check them all was ok and I do still have bias......I had an
> ATV net to run tonight so could not work on it, may not get to it till
> Sunday. Hope its something simple.
>
>

453. Re: [DrakeRadio] T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 15:43:13 UTC
From: JOHNQRZ@AOL.COM
Topic: 449 Message: 453

Gary- Will check it out on Sunday,and let you know what I see also I have sent you CD order by snail mail I am sure that will make thing easer in the furture......John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

454. Re: [DrakeRadio] T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-05 17:40:53 UTC
From: Garey Barrell
Topic: 449 Message: 454

John -

OK. I'll get it in the mail. It certainly makes it easier to find
things. I hate to think how much time I would have saved over the last
40 years if I had done it way back when! :-)

73, Garey - K4OAH
Glen Allen, VA

JOHNQRZ@... wrote:
>
>
> Gary- Will check it out on Sunday,and let you know what I see also I have
> sent you CD order by snail mail I am sure that will make thing easer in the
> furture......John
>
>
>

455. T-4XB PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-07 05:56:55 UTC
From: JOHNQRZ@AOL.COM
Topic: 449 Message: 455

Garey- Well the problem was a bad solder joint on the band switch going to the crystal bank. You were right an easy fix. I talked to the guy I got these from to try to get a little more history and found it has been off the air for about 10 years. Well all is well for the time being, look forward to the cd it will make any future trouble shooting easer I'm sure.....73 for now....John

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

456. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-07 07:21:19 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 456

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

457. Drake Schematic Search

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-07 15:51:51 UTC
From: Garey Barrell
Topic: 457 Message: 457

Drake "family" -

I need some help!

Does anyone have a TR-4C schematic with a serial number starting with 32473 ?? I know there is one, but the copy that I have is "blurred" and I am unable to read the last five digits.

The serial number is on the schematic itself, usually bottom center of the drawing.

Otherwise, does anyone have a TR-4C with a serial number below 34150? Or a TR-4 ABOVE 34150??

I'm getting closer to the TR-4 CD, finally!

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

458. MS-4 Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-07 23:21:57 UTC
From: Peter
Topic: 458 Message: 458

Hi, I am looking for some parts for my Drake MS-4. I need two of the feet that thread onto the 10-24 flathead machine screws. I also need a replacement 5x7 4 ohm speaker that has the same hole spacing as the original. Any suggestions welcome. Thanks, Peter.

459. Zenith 6JB6's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-08 20:33:20 UTC
From: Garey Barrell
Topic: 459 Message: 459

Perhaps this explains why I have found Zenith branded 6JB6's to work
well in Drake tube transmitters.....

"Interesting note: During the entire Zenith tube equipment era, Sylvania was their single supplier. Such rare and unusual tubes as the 6T5 and initially the 1L6 were manufactured exclusively for Zenith by Sylvania until Zenith either chose not to pay the premium for exclusivity (1L6), or granted permission-by-license to other makers such as Crosley to use the 6T5. "

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

460. Drake SPR-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-10 21:29:28 UTC
From: mikemaghakian
Topic: 460 Message: 460

I have a really really nice SPR-4 for sale. it has six ham band crystals in addition to the stock crystals. has AC power cord. price is $450 plus shipping

461. Re: Drake SPR-4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-10 21:31:57 UTC
From: mikemaghakian
Topic: 460 Message: 461

please email me direct at mmaghakian@... do not reply here

--- In DrakeRadio@yahoogroups.com, "mikemaghakian" <mikemaghakian@...>
wrote:
>
> I have a really really nice SPR-4 for sale. it has six ham band
> crystals in addition to the stock crystals. has AC power cord. price
is
> $450 plus shipping
>

462. Re: [DrakeRadio] Looking For 9.0 Mhz IF Crystal for TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-10 22:19:39 UTC
From: Bill
Topic: 416 Message: 462

Thanks Don,
Sorry for the late reply. Darn Low back went out Again...I didn't see what I was looking for on their site. I will call them on the Landline when I feel Better. Thanks again Don...

On another note.....My TR-4 Serial number is 31734. I took this off a old repair Bill..The Little tiny numbers on the Schematic Diagram under where it says Model TR-4 Tranceiver is...8117030500.....There are also Schematic's for 34PNB Noise Blanker, Fixed Frequency adapter, RV-4 Remote VFO, AC-4 / DC-4 Power supply's, And also picture views of the top and bottom side of the Radio...
Hope it helps. Let me know....73's Everyone...

Bill In Ohio...KC8ILP
http://www.kc8ilp.bravehost.com/

Don <drfrasher@...> wrote:
http://www.sherweng.com/ham.html

This is one source anyway for band crystals , filters, and such for the tr-4

----- Original Message -----
From: Bill
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 18, 2007 3:31 AM
Subject: [DrakeRadio] Looking For 9.0 Mhz IF Crystal for TR-4

Hello everyone. I been meaning to ask the Group for awhile now if anyone out there has a 9.0 Mhz IF Crystal For a TR-4....I think thats what I need to get the ole girl going again. It is located on the bottom side of the radio in the back of the radio near the Ground stub....One of The wires on the crystal broke off even with the bottom of the crystal. i am hoping that I have it pegged correctly as the 9.0 Mhz IF Crystal. My eyes just are not what they used to be.....The radio is in outstanding shape and was just serviced not long before the wire on the crystal broke. I got mad because it broke so soon after being re-aligned and serviced and all that I just went out and bought a Icom 706 but it broke after a couple of years and I was told that it would be cheaper to replace than to repair. So I got mad again and got the Kenwood TS-2000...I have been very happy with it and it works great. But I sure do miss the glow of those tubes. and with winter comming on I could use the extra Heat in the Shack...LOL....It is a great rig to operate and I hope to have it back on the air by winter....If anyone out there has what I need please let me know, and also let me know how much and the best way for me to pay you.....Thanks everyone. I'll be sitting here with my fingers crossed.....

Bill In Ohio...73's...De KC8ILP

http://www.kc8ilp.bravehost.com/ Always being updated
http://www.billslisteningpost.bravehost.com/ Live feed down until I get another audio card...

Just a good link to have
http://www.globalincidentmap.com/home.php

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[Non-text portions of this message have been removed]

463. RE: [DrakeRadio] Need TR-4c Sideband Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-11 00:10:24 UTC
From: John Page
Topic: 437 Message: 463

Dave, I sent switch this morning. I apologize for the delay. I did get the money Monday. Hope it does the trick for you. I did clean up the shaft a bit and tried to get the excess junk off the solder lugs. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: k8dv@...
Date: Mon, 1 Oct 2007 02:02:20 +0000
Subject: [DrakeRadio] Need TR-4c Sideband Switch

Working on putting life back into a TR-4c and appears it took a hit on

the sideband selector knob and broke the switch wafer in half.

Wonder if any of you fine folks here on the Drake list have a parts

radio with this switch in it or switch available?

Thanks,

Dave, K8DV

k8dv at fuse.net

_____
Help yourself to FREE treats served up daily at the Messenger Café. Stop by today.
http://www.cafemessenger.com/info/info_sweetstuff2.html?ocid=TXT_TAGLM_OctWLtagline

[Non-text portions of this message have been removed]

465. No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-13 14:59:02 UTC
From: Robert H Clinton
Topic: 465 Message: 465

I have finally gotten around to activating an L-4B that I bought from a trusted source about three years ago. I am using an Icom 706 as the exciter. I get no power out of the L-4B and no plate current is indicated. Grid current is rated value as specified in the instructions. Plate voltage, indicated on the L-4B meter, is normal. I checked the 120V standby bias and it goes to 0V when changing from standby to operate. Per the instructions, I checked the 3-500Zs for grid-to-emitter shorts and both are OK. (both tubes light up). I do not have spare tubes available and, given the cost, I am reluctant to get new ones unless I am certain they need replacement.

Any suggestions would be appreciated.

Bob Clinton
W0BUX

466. Re: [DrakeRadio] No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-13 16:08:39 UTC
From: K5VSE
Topic: 465 Message: 466

Do you have idling plate current when the amp in keyed, with no signal applied? Have you checked the HV going to the plates of the 3-500Z tubes? Don't try that unless you are comfortable working around very high voltages, as it can kill you! The relay can also be a problem, although unlikely. There would be some output, even if low.

Let me know how you make out.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

467. Re: No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-14 18:43:28 UTC
From: Robert H Clinton
Topic: 465 Message: 467

Mike,

Thanks for coming back with your suggestions.

<<Do you have idling plate current when the amp in keyed, with no signal applied? >>

The on-board meter does not show any plate current under any set of conditions.

<<Have you checked the HV going to the plates of the 3-500Z tubes? >>

So far I have not tried measuring the HV directly at the plates of the tubes - I have relied on the on-board meter, which indicates normal plate voltage. However I can see that this is not a definitive test. I don't have a meter that can measure the plate voltage directly, so I will have to assemble a voltage divider.

<<The relay can also be a problem, although unlikely. >>

I have been suspicious of the relay but it appears to be working. I know that it is actuating and it removes the cutoff bias when it does.

The next step is the direct voltage measurement. Thanks for the HV warning, but I am fairly comfortable working with HV. I was a US Navy Electronics Technician back in the days of wooden ships, iron men and transmitters with high voltage and huge final amplifiers.

Will let you know how I get on.

73,

Bob Clinton
W0BUX / G0BUX

468. Re: No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-14 19:18:32 UTC
From: Robert H Clinton
Topic: 465 Message: 468

Mike,

Your suggestion about measuring the HV at the plate caps sent me first to the schematic and then to the bench with an ohmmeter. The only thing that could allow a normal HV reading on the on-board meter but keep the HV off the plates is an open RFC 4. Sure enough, it is open. I think I can see a dangling wire at the bottom of the choke. I didn't attempt to fix it tonight - the patient will go in for surgery tomorrow.

Await further developments.

73,

Bob Clinton
W0BUX / G0BUX

469. RE: [DrakeRadio] Need TR-4c Sideband Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-14 22:39:55 UTC
From: k8dv@fuse.net
Topic: 437 Message: 469

Hi John,

Just wanted to let you know that I received the switch and should fit the bill perfectly. Thanks for the help and best 73.

Dave, K8DV

---- John Page <k4kwm@...> wrote:
>
> Dave, I sent switch this morning. I apologize for the delay. I did get the money Monday. Hope it does the trick for you. I did clean up the shaft a bit and tried to get the excess junk off the solder lugs. John
>
> John Page K4KWM
> Hollow State since 1953
> (ex W8PKU,N8BLB,NA8O)
>
> To: DrakeRadio@yahoogroups.com
> From: k8dv@...
> Date: Mon, 1 Oct 2007 02:02:20 +0000
> Subject: [DrakeRadio] Need TR-4c Sideband Switch
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> Working on putting life back into a TR-4c and appears it took a hit on
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> the sideband selector knob and broke the switch wafer in half.
>
> Wonder if any of you fine folks here on the Drake list have a parts

> radio with this switch in it or switch available?
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> Thanks,
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> Dave, K8DV
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> k8dv at fuse.net
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> ---
> Help yourself to FREE treats served up daily at the Messenger Café. Stop by today.
> http://www.cafemessenger.com/info/info_sweetstuff2.html?ocid=TXT_TAGLM_OctWLtagline
>
> [Non-text portions of this message have been removed]
>

470. Re: [DrakeRadio] Re: No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-14 22:59:45 UTC
From: K5VSE
Topic: 465 Message: 470

Glad I could be of service. Meters don't always tell the whole story, and can sometimes run you ragged looking for a problem that doesn't exist. That's one reason I have kept my old Triplett VOM, because it will measure hi voltages. I enjoy doing these things myself. Hope all works out well for you with the amp.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

471. Re: No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-15 15:10:10 UTC
From: Robert H Clinton
Topic: 465 Message: 471

Mike,

The moral of the story is: if you want to measure the plate voltage,
measure it at the plate connectors.

I repaired the open circuit this morning and now I have output.

Thanks for pointing me in the right direction.

73,

Bob Clinton
W0BUX / G0BUX

472. Re: [DrakeRadio] Re: No output from L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-15 20:30:37 UTC
From: K5VSE
Topic: 465 Message: 472

Hey, not a problem Bob. Glad to have been a help. I know there are times I have had to ask the list for help as well! Good luck with the amp. I'm sure you will enjoy it, I do.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

473. Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-16 19:02:48 UTC
From: Mike-K5VSE
Topic: 473 Message: 473

Anyone got an old T-4XC gathering dust around your shack? I am in need of another one to finish up a project. Looking to spend somewhere in the $250.00 range. Good front panel a plus!

Contact me at mdewey@... if you want.

Thanks
Mike/K5VSE

474. Re: [DrakeRadio] Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-16 23:57:57 UTC
From: George K4GM
Topic: 473 Message: 474

I've got a few and am reducing my Drake stuff. How quickly do you need
it? I'm in Virginia.

George K4GM

Mike-K5VSE wrote:
>
> Anyone got an old T-4XC gathering dust around your shack? I am in need
> of another one to finish up a project. Looking to spend somewhere in
> the $250.00 range. Good front panel a plus!
>
> Contact me at mdewey@... <mailto:mdewey%40allegiance.tv> if
> you want.
>
> Thanks
> Mike/K5VSE
>
>

475. Re: [DrakeRadio] Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-17 00:27:41 UTC
From: K5VSE
Topic: 473 Message: 475

Thanks George for the fast response. I didn't think anyone would answer today.

I'm not in a real hurry. Just let me know how you want to handle payment/shipping and we can go from there.

I'm over here in Arkansas, and have been doing this stuff for nearly 50 years.

Let me know your desires.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
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All email scanned with Norton 2008
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[Non-text portions of this message have been removed]

476. Capacitor Value for Drake TR-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-17 12:20:16 UTC
From: Mike-K5VSE
Topic: 476 Message: 476

Hi to all,

OK, don't go off on me, but I have a stupid question. What is the value of C-145, a multi-section electrolytic capacitor in the TR-4? I can find two of the values on the schematic, but not the others. I can't read it off of the cap because of the way it is mounted on the chassis. I have AC hum in both transmit and receive audio. The AC-4 is fine, as I have swapped it out with another from the twins.

I have asked several people, but got no response. Any and all help will be greatly appreciated.

You may answer to my email direct if you so desire to:
mdewey@...

Thanks es 73,
Mike/K5VSE

477. Re: [DrakeRadio] Capacitor Value for Drake TR-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-17 13:57:42 UTC
From: Garey Barrell
Topic: 476 Message: 477

Mike -

I have spent the last year developing a CD for the TR-4, and in the last few weeks have been poring over the schematic and parts list.

So...

C145A is 20 uF at 250 VDC (located near J3)
C145B is 60 uF at 250 VDC (near S-Meter)
C145C is 10 uF at 25 VDC (cathode bypass on V19A)
C145D is 10 uF at 250 VDC (near J3)

While the voltages are "DC Working Voltage" for electrolytics back then, the 250 is directly across the 250 VDC supply and so is marginal, especially with todays higher line voltages making the +250 V line closer to +270 VDC. Four section Twist-Lok caps are also kinda rare these days, so you'll likely have to settle for a three or even two section can with the others being replaced by tubular caps placed below the chassis. Lead length is of NO concern for these caps, so you can place them where they can be fitted in.

If you want to "re-stuff" a Twist-Lok can, you could find a little taller can than the original that would accommodate all four sections. I think it would be tough to get all four into the original 2" tall can.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> Hi to all,
>
> OK, don't go off on me, but I have a stupid question. What is the
> value of C-145, a multi-section electrolytic capacitor in the TR-4? I
> can find two of the values on the schematic, but not the others. I
> can't read it off of the cap because of the way it is mounted on the
> chassis. I have AC hum in both transmit and receive audio. The AC-4 is
> fine, as I have swapped it out with another from the twins.
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> I have asked several people, but got no response. Any and all help
> will be greatly appreciated.
>
> You may answer to my email direct if you so desire to:
> mdewey@...
>

> Thanks es 73,
> Mike/K5VSE
>
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>
>

478. Re: [DrakeRadio] Capacitor Value for Drake TR-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-17 14:35:25 UTC
From: K5VSE
Topic: 476 Message: 478

Thanks Garey,

I've been trying to get these values for some time now. My T-4XC has problems, so I have reverted back to the TR-4. I'll start looking for something close that will fit. So far, over the years, I've always been able to find something that will work when it comes to capacitors.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
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Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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[Non-text portions of this message have been removed]

479. Re: [DrakeRadio] Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-18 00:37:15 UTC
From: George K4GM
Topic: 473 Message: 479

Thanks Mike. I'll let you know. Right now I'm getting three YC-601s out
the door to their new homes.
73, George K4GM

K5VSE wrote:
>
> Thanks George for the fast response. I didn't think anyone would answer
> today.
>
> I'm not in a real hurry. Just let me know how you want to handle
> payment/shipping and we can go from there.
>
> I'm over here in Arkansas, and have been doing this stuff for nearly 50
> years.
>
> Let me know your desires.
>
> 73,
> Mike/K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> <http://members.tripod.com/%7Esjsharks/index.html>
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2008
> "In God We Trust"
>
> [Non-text portions of this message have been removed]
>
>

480. Re: [DrakeRadio] Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-18 00:49:57 UTC
From: K5VSE
Topic: 473 Message: 480

Hey George,

While you're at it, you might look and see if ya have an R-4C with a ser# above 21xxxx. Don't ask me why, but someone told me that the one I have is the earlier version using 6HS6 tubes instead of the 6EV7 I think. Supposedly Drake changed the 3rd mixer as well, and it is supposed to be a better receiver. At least you can add more filters, that I do know. I don't know if I can afford it, but I can always sell off some of my other stuff. I have a guy wanting my Kenwood twins real bad, he's just trying to come up with the cash.

Thanks for your trouble, and I'm sorry for being a pest. LOL

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

481. tr7 am filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-18 22:21:41 UTC
From: marksbuffalobills
Topic: 481 Message: 481

does any one know of any company that makes one.

482. drake stuff

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-18 22:27:36 UTC
From: marksbuffalobills
Topic: 482 Message: 482

thanks guys u guys have a nice assortment of stuff,i have a tr7 anda
tr7 a great rigs for swl listening,one has a mod done by my dad he put
two ssb filters together works great really nice seletivety.

483. RE: [DrakeRadio] tr7 am filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-18 22:30:15 UTC
From: Jim Chaggaris
Topic: 481 Message: 483

INRAD makes them.

http://www.qth.com/inrad/

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of marksbuffalobills
Sent: Thursday, October 18, 2007 5:22 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] tr7 am filter

does any one know of any company that makes one.

[Non-text portions of this message have been removed]

484. RE: [DrakeRadio] tr7 am filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-19 21:20:55 UTC
From: Steve Finch
Topic: 481 Message: 484

These folks sell TR7 filters. Serf their web site for one.

http://www.qth.com/inrad/

Steve AIØW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of marksbuffalobills
Sent: Thursday, October 18, 2007 4:22 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] tr7 am filter

does any one know of any company that makes one.

[Non-text portions of this message have been removed]

485. wanted: Drake SW-8 service info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-19 22:55:41 UTC
From: mikemaghakian
Topic: 485 Message: 485

Does anyone have the SW-8 service info package that they don't need anymore that they want to trade to me.
I have fixed up my SW-8 and want to look into mods and other interesting projects so that info would be nice to have.
If I can trade something I don't need for something you don't need then we both benefit.
I do not want home made copies, I prefer what originals Drake sent.

thanks

486. Wanted: Drake L-4(b) vox cable to PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-20 12:31:53 UTC
From: Kevin G. Wagner
Topic: 486 Message: 486

Does anyone have the vox cable that goes between the amp and the
power supply or know were I can find one? In the L-4(b)manual there
calling it a vox cable.
Any help is always appreciated.

Kevin
w2fa@...

[Non-text portions of this message have been removed]

487. Re: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-20 13:22:37 UTC
From: Garey Barrell
Topic: 486 Message: 487

Kevin -

Those cables (actually the connectors) are almost impossible to obtain. They show up on E* once in a while for $20 and up each. I have seen a cable somewhere with "home-made" connectors that looks pretty good for about $20 or so, but can't recall where at the moment.

Drake offered a modification consisting of a small plate that fit over the rectangular hole in the AC-4 and the L-4B with an RCA phono jack mounted on it so a regular patch cable could be used. John Kriner may have some of those kits left, but it would not be very difficult to fabricate.

As for the original connector, the pins are 0.093" in diameter. Some have made a connector from #11 solid copper wire. Various schemes have been tried with plastic and/or epoxy to build up a connector body around the two pieces of wire. #11 wire is 0.0907", and tinning it with solder should make it just about right. I would tin it to ward off corrosion. Unfortunately, #11 is NOT a common size (to say the least!). #10 is 0.1019", which is a little large, and is probably what the "plug builders" used. I don't know if that is large enough to damage the female connector or not. The pins are spaced 0.350" c-c. A better choice might be some 3/32" dia (0.0937) brass tubing from the hobby shop. It would give a more reliable electrical connection to the wire.

Here's a sample

<http://www.zerobeat.net/drakelist/voxrelayplug.html>

John does have the mod kits at $12 each.

*http://tinyurl.com/2fl94u

*

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Kevin G. Wagner wrote:
> Does anyone have the vox cable that goes between the amp and the
> power supply or know were I can find one? In the L-4(b)manual there
> calling it a vox cable.
> Any help is always appreciated.
>

> Kevin
> w2fa@...
>
>

488. Re: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-20 18:25:36 UTC
From: Randy
Topic: 486 Message: 488

Look at eBay they have a man making new vox cables
http://cgi.ebay.com/Drake-L4-L4B-cable-Relay_W0QQitemZ270176507405QQihZ017QQcategoryZ4671QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
73
Randy kb5lxy
----- Original Message -----
From: Kevin G. Wagner
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 20, 2007 7:31 AM
Subject: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS

Does anyone have the vox cable that goes between the amp and the
power supply or know were I can find one? In the L-4(b)manual there
calling it a vox cable.
Any help is always appreciated.

Kevin
w2fa@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

489. Re: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-20 19:01:02 UTC
From: Garey Barrell
Topic: 486 Message: 489

This is the one I saw. Unless you have a very late AC-4, you'll have
to modify one unit to use this cable.. The late AC-4 had the phono jack
from the factory, but the rest have the same two-pin connector that is
on the amplifier.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> Look at eBay they have a man making new vox cables
> http://cgi.ebay.com/Drake-L4-L4B-cable-Relay_W0QQitemZ270176507405QQihZ017QQcategoryZ467
1QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
> 73
> Randy kb5lxy
> ----- Original Message -----
> From: Kevin G. Wagner
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 20, 2007 7:31 AM
> Subject: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS
>
>
> Does anyone have the vox cable that goes between the amp and the
> power supply or know were I can find one? In the L-4(b)manual there
> calling it a vox cable.
> Any help is always appreciated.
>
> Kevin
> w2fa@...
>
>

490. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-21 07:18:18 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 490

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

491. T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-22 03:11:30 UTC
From: tweeker42000
Topic: 491 Message: 491

Hello group:

I am new to this and to drake equipment. My addiction to boatanchors started with some Hallicrafters equipment, and I just recently picked up a Drake T4XB. When I got it home and fired it up I was able to get bias, but turning up the gain control resulted in no output, no plate current on the meter. I started out by checking all the voltages and found them to be OK, I checked all tubes in the path and they were OK as well. I checked the carrier osc at pin 3 of V1A, checked the PTO at pin 7 of V8, checked the band osc at pin 1 of V8. I have the mixed output from the plate of V8. The cathode voltage on the mixer and IF amp changes from 150 to 1-2V when I switch it to tune.

What I have noticed is somehow the signal from the Pre-mixer is not at V3, and I do not have have DSB output from the balanced modulator. There are alot of switches and I did not get time to trace it through tonight - but I did verify that the driver and finals can put out a signal at 3750 by injecting a signal to pin 2 of the 12BY7 driver. With 8dBm I got 50 watts out, and with 13dBm I had 100 watts out. I also had a plate current indication on the meter. So it seems that circuitry is working.

So has anyone seen the premix signal not getting to V3 (I looked for a signal at R15/C146) -- Anything simple? your help is much appreciated!

Regards, Ryan, N7QJ

492. Re: [DrakeRadio] T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-22 14:41:46 UTC
From: Garey Barrell
Topic: 491 Message: 492

Ryan -

Sounds like you are pretty knowledgeable, and have done all the "right" things. Makes it tough! :-)

Your message is a little ambiguous about the presence of the Premix signal at R15/C146. Is it there?

A "working" T-4XB can be tuned up at 5.645 MHz by inappropriate setting of the RF TUNE on 80M, eliminating the requirement for the Premix signal entirely, to check the signal path.

You don't say "where" you don't have the DSB signal. The signal at T3 should be SSB, depending upon the SIDEBAND switch setting.

Just a guess at this point, T3 or surrounding wiring may have a problem. The Premix is injected into the "bottom" of the T3 secondary via C146, while the SSB is coupled in via the primary of T3.

Let us know what you find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

tweeker42000 wrote:
> Hello group:
>
> I am new to this and to drake equipment. My addiction to boatanchors
> started with some Hallicrafters equipment, and I just recently picked
> up a Drake T4XB. When I got it home and fired it up I was able to
> get bias, but turning up the gain control resulted in no output, no
> plate current on the meter. I started out by checking all the
> voltages and found them to be OK, I checked all tubes in the path and
> they were OK as well. I checked the carrier osc at pin 3 of V1A,
> checked the PTO at pin 7 of V8, checked the band osc at pin 1 of V8.
> I have the mixed output from the plate of V8. The cathode voltage on
> the mixer and IF amp changes from 150 to 1-2V when I switch it to
> tune.
>
> What I have noticed is somehow the signal from the Pre-mixer is not
> at V3, and I do not have have DSB output from the balanced
> modulator. There are alot of switches and I did not get time to
> trace it through tonight - but I did verify that the driver and
> finals can put out a signal at 3750 by injecting a signal to pin 2 of

> the 12BY7 driver. With 8dBm I got 50 watts out, and with 13dBm I had
> 100 watts out. I also had a plate current indication on the meter.
> So it seems that circuitry is working.
>
> So has anyone seen the premix signal not getting to V3 (I looked for
> a signal at R15/C146) -- Anything simple? your help is much
> appreciated!
>
> Regards, Ryan, N7QJ
>
>
>

493. Re: Wanted: Drake L-4(b) vox cable to PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-22 17:17:43 UTC
From: Kevin Wagner
Topic: 486 Message: 493

Thanks to all that replied. I was able to make one up. I had looked thru a box that I had of old connectors I picked up from ham clubs that were giving them away. The amp works great.

Thanks again,
Kevin
w2fa

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> This is the one I saw. Unless you have a very late AC-4, you'll have
> to modify one unit to use this cable.. The late AC-4 had the phono jack
> from the factory, but the rest have the same two-pin connector that is
> on the amplifier.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Randy wrote:
> > Look at eBay they have a man making new vox cables
> > http://cgi.ebay.com/Drake-L4-L4B-cable-Relay_W0QQitemZ270176507405QQihZ017QQcategoryZ4671QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
> > 73
> > Randy kb5lxy
> > ----- Original Message -----
> > From: Kevin G. Wagner
> > To: DrakeRadio@yahoogroups.com
> > Sent: Saturday, October 20, 2007 7:31 AM
> > Subject: [DrakeRadio] Wanted: Drake L-4(b) vox cable to PS
> >
> >
> > Does anyone have the vox cable that goes between the amp and the
> > power supply or know were I can find one? In the L-4(b)manual there
> > calling it a vox cable.

> > Any help is always appreciated.
> >
> > Kevin
> > w2fa@...
> >
> >
>

494. Re: T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-23 04:14:12 UTC
From: tweeker42000
Topic: 491 Message: 494

Garey,
Well, I spent some more time on it tonight and the short story is
that it is working now - something is intermittent in the vicinity of
the switches and/or T14. The signal was there at R15/C146. I shut
it down tonight and will see what I can get with it tomorrow.
Tapping around did not make it stop working. We'll see...

Thanks, Ryan
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Ryan -
>
> Sounds like you are pretty knowledgeable, and have done all
the "right"
> things. Makes it tough! :-)
>
> Your message is a little ambiguous about the presence of the Premix
> signal at R15/C146. Is it there?
>
> A "working" T-4XB can be tuned up at 5.645 MHz by inappropriate
setting
> of the RF TUNE on 80M, eliminating the requirement for the Premix
signal
> entirely, to check the signal path.
>
> You don't say "where" you don't have the DSB signal. The signal at
T3
> should be SSB, depending upon the SIDEBAND switch setting.
>
> Just a guess at this point, T3 or surrounding wiring may have a
> problem. The Premix is injected into the "bottom" of the T3
secondary
> via C146, while the SSB is coupled in via the primary of T3.
>
> Let us know what you find!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> tweeker42000 wrote:

> > Hello group:
> >
> > I am new to this and to drake equipment. My addiction to
boatanchors
> > started with some Hallicrafters equipment, and I just recently
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> > up a Drake T4XB. When I got it home and fired it up I was able
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> > checked the PTO at pin 7 of V8, checked the band osc at pin 1 of
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> > I have the mixed output from the plate of V8. The cathode
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> > the mixer and IF amp changes from 150 to 1-2V when I switch it to
> > tune.
> >
> > What I have noticed is somehow the signal from the Pre-mixer is
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> > at V3, and I do not have have DSB output from the balanced
> > modulator. There are alot of switches and I did not get time to
> > trace it through tonight - but I did verify that the driver and
> > finals can put out a signal at 3750 by injecting a signal to pin
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> > the 12BY7 driver. With 8dBm I got 50 watts out, and with 13dBm I
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meter.
> > So it seems that circuitry is working.
> >
> > So has anyone seen the premix signal not getting to V3 (I looked
for
> > a signal at R15/C146) -- Anything simple? your help is much
> > appreciated!
> >
> > Regards, Ryan, N7QJ
> >
> >
> >
>

495. Re: [DrakeRadio] Re: T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-23 13:54:06 UTC
From: Garey Barrell
Topic: 491 Message: 495

Ryan -

OK. There have been a few reports of trouble with T-14. The four diodes of the Balanced Modulator are INSIDE T14, pretty tightly packed, and can short against the can, which is not good! :-)

The originals are germanium, usually 1N541, a few 1N270. Best to replace them, IF necessary, with 1N5711 or similar Schottky diodes.

CAIG DeoxIT, D100L if you can find it, if not D5 sprayed into the cap and put directly on contacts with a syringe or pipette, will resolve most switch problems. Some claim that with some spray "cleaners" will cause the phenolic wafers to swell. I have seen ONE case where the phenolic wafers were distorted enough that the contacts were misaligned. The owner said he had sprayed it with "contact cleaner", but didn't remember the brand. There was an oily residue ALL OVER the switch area, including the chassis, all parts, etc. A real mess that ended up as a parts unit.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

tweeker42000 wrote:
> Garey,
> Well, I spent some more time on it tonight and the short story is
> that it is working now - something is intermittent in the vicinity of
> the switches and/or T14. The signal was there at R15/C146. I shut
> it down tonight and will see what I can get with it tomorrow.
> Tapping around did not make it stop working. We'll see...
>
> Thanks, Ryan
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Ryan -
>>
>> Sounds like you are pretty knowledgeable, and have done all
>>
> the "right"
>
>> things. Makes it tough! :-)
>>
>> Your message is a little ambiguous about the presence of the Premix
>> signal at R15/C146. Is it there?

>>
>> A "working" T-4XB can be tuned up at 5.645 MHz by inappropriate
>>
> setting
>
>> of the RF TUNE on 80M, eliminating the requirement for the Premix
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> signal
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>> You don't say "where" you don't have the DSB signal. The signal at
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> T3
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>> should be SSB, depending upon the SIDEBAND switch setting.
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>> problem. The Premix is injected into the "bottom" of the T3
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> secondary
>
>> via C146, while the SSB is coupled in via the primary of T3.
>>
>> Let us know what you find!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> tweeker42000 wrote:
>>
>>> Hello group:
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>>> I am new to this and to drake equipment. My addiction to
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> boatanchors
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>>> started with some Hallicrafters equipment, and I just recently
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> picked
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>>> up a Drake T4XB. When I got it home and fired it up I was able
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>>> get bias, but turning up the gain control resulted in no output,
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>>> they were OK as well. I checked the carrier osc at pin 3 of V1A,
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>>> I have the mixed output from the plate of V8. The cathode
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> voltage on
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>>> tune.
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>>> So it seems that circuitry is working.
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>>> So has anyone seen the premix signal not getting to V3 (I looked
>>>
> for
>
>>> a signal at R15/C146) -- Anything simple? your help is much
>>> appreciated!
>>>
>>> Regards, Ryan, N7QJ

>>>
>>>
>

496. Re: [DrakeRadio] Looking for an affordable T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 03:30:22 UTC
From: K5VSE
Topic: 473 Message: 496

Hey George.

I'm beginning to get rushed now. It seems all my gear is going down at the same time. I'm down to just one of my TR-4's. Even my Kenwood twins have a problem with the transmitter.

Let me know the soonest you could make some kind of deal on a T-4XC.

I've got me a new re-production front panel on the way for the L-4B as we speak. That's the only Drake that I have that is working as if should. LOL

See ya es 73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

497. R-4B bandswitch query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 18:05:01 UTC
From: phbjr@aol.com
Topic: 497 Message: 497

Does anyone know of a source for bandswitch sections for the R-4B receiver? I have a really, really nice R-4B that is almost pristine cosmetically and works fine *BUT* I noticed that the upper spring finger on one fixed contact of one of the bandswitch sections is broken off. The rotary wiper seems to make a solid electrical connection with the remaining lower finger (i.e., the receiver works on that band) but I worry that over time it might become an issue.

It looks to me like it would be fairly straightforward to disconnect the wires connected to that switch section, extract the shaft, remove the damaged section, install a new one as the shaft is reinserted and reconnect the wires. But I need a new switch section first. Alternatively, I might be able to do some kind of micro-surgery on the old switch section after removal and replace the damaged fixed contact with one the same size, "borrowed" from another switch (I have several laying around in the junkbox) but replacement of the switch section seems a better option, if possible.

Thanks in advance for any tips, advice or sources.

Paul, K4MSG

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

498. Re: [DrakeRadio] R-4B bandswitch query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 19:04:13 UTC
From: Garey Barrell
Topic: 497 Message: 498

Paul -

Which section is it? I have a very few, if I don't have it John Kriner might.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

phbjr@... wrote:
> Does anyone know of a source for bandswitch sections for the R-4B receiver?
> I have a really, really nice R-4B that is almost pristine cosmetically and
> works fine *BUT* I noticed that the upper spring finger on one fixed contact
> of one of the bandswitch sections is broken off. The rotary wiper seems to
> make a solid electrical connection with the remaining lower finger (i.e., the
> receiver works on that band) but I worry that over time it might become an
> issue.
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> wires connected to that switch section, extract the shaft, remove the damaged
> section, install a new one as the shaft is reinserted and reconnect the wires.
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> replace the damaged fixed contact with one the same size, "borrowed" from another
> switch (I have several laying around in the junkbox) but replacement of the
> switch section seems a better option, if possible.
>
> Thanks in advance for any tips, advice or sources.
>
> Paul, K4MSG
>
>
>

499. Re: [DrakeRadio] R-4B bandswitch query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 19:56:43 UTC
From: phbjr@aol.com
Topic: 497 Message: 499

Hi Gary,

It's the 3rd one back from the front, which I assume is C (as in
A-B-C-D-etc.).

Sorry, don't know John Kriner, I'm brand new to the list.

My niece lives in Glen Allen over off of Nuckols Road north of I-295.
I'm from Richmond originally.

73,

Paul, K4MSG

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

500. Re: [DrakeRadio] R-4B bandswitch query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 20:23:15 UTC
From: Garey Barrell
Topic: 497 Message: 500

Well of course that's one I don't have. Looking at the schematics it
LOOKS like wafers C and D of the R-4B are identical, and that the D and
E wafers of the R-4C might be the same as well.

Check with John,

<jkriner@...>

He has most of the "left-over" parts from the 4 and 7 series.

I'm not far from Nuckols South of I-295 off Lexington Farm Rd, which I
think used to be Ft McHenry Pkwy.

We lived in Charlottesville in the 70's before moving to Atlanta.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

phbjr@... wrote:
> Hi Gary,
>
> It's the 3rd one back from the front, which I assume is C (as in
> A-B-C-D-etc.).
>
> Sorry, don't know John Kriner, I'm brand new to the list.
>
> My niece lives in Glen Allen over off of Nuckols Road north of I-295.
> I'm from Richmond originally.
>
> 73,
>
> Paul, K4MSG
>
>

501. [DrakeRadio] UPDATE to R-4B bandswitch query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-24 20:46:23 UTC
From: phbjr@aol.com
Topic: 501 Message: 501

The bandswitch wafer I need is C, the third from the front.

Paul, K4MSG

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

502. TR-3 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-25 18:28:37 UTC
From: Robert L
Topic: 502 Message: 502

Without offending anyone, could I ask for a couple of recommendations
for the best Drake repair shops for my old TR-3?

Feel free to email me direct at WB2HNP@....

Thanks!

Robb

503. TR-3 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-25 18:35:23 UTC
From: Robert L
Topic: 502 Message: 503

Without offending anyone, could I ask for a couple of recommendations
for the best Drake repair shops for my old TR-3?

Feel free to email me direct at WB2HNP@....

Thanks!

Robb

504. Caps for the power supply of the L-4 amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-26 22:29:50 UTC
From: Kevin G. Wagner
Topic: 504 Message: 504

Does anyone know where I can get a Cornell Dubilier BR 200-450 caps?
I have blown one and need to replace it.

Kevin
w2fa

w2fa@...

[Non-text portions of this message have been removed]

505. Re: [DrakeRadio] Caps for the power supply of the L-4 amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-27 15:02:44 UTC
From: Don
Topic: 504 Message: 505

I am not sure of a regular supplier, hopefully another on the list will know of one. Have you checked on e-bay yet?
I have found a wide variety of caps available, but you are of course taking a chance.
Also, have you considered replacing with modern equivelants?
Don

PS. If anyone on the list knows of any parts suppliers or such, please feel free to post the links on the home page links section as well as here on the reflector. Thanks !

----- Original Message -----
From: Kevin G. Wagner
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 26, 2007 4:29 PM
Subject: [DrakeRadio] Caps for the power supply of the L-4 amp

Does anyone know where I can get a Cornell Dubilier BR 200-450 caps?
I have blown one and need to replace it.

Kevin
w2fa

w2fa@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

506. RE: [DrakeRadio] Caps for the power supply of the L-4 amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-27 16:03:54 UTC
From: Jim Chaggaris
Topic: 504 Message: 506

Kevin:

If you're going to replace one cap, I suggest replacing them all. It's also best to replace the diodes and bleeder resistors. The Heathkit Shop (http://www.theheathkitshop.com/) makes a replacement PS board for the L4/L7 which replaces all the caps, diodes and bleeders. I just assembled and installed 2 of them last week. Piece of cake.

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don
Sent: Saturday, October 27, 2007 10:03 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Caps for the power supply of the L-4 amp

I am not sure of a regular supplier, hopefully another on the list will know of one. Have you checked on e-bay yet?
I have found a wide variety of caps available, but you are of course taking a chance.
Also, have you considered replacing with modern equivelants?
Don

PS. If anyone on the list knows of any parts suppliers or such, please feel free to post the links on the home page links section as well as here on the reflector. Thanks !

----- Original Message -----
From: Kevin G. Wagner
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Sent: Friday, October 26, 2007 4:29 PM
Subject: [DrakeRadio] Caps for the power supply of the L-4 amp

Does anyone know where I can get a Cornell Dubilier BR 200-450 caps?
I have blown one and need to replace it.

Kevin
w2fa

w2fa@comcast. <mailto:w2fa%40comcast.net> net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

507. Re: [DrakeRadio] Caps for the power supply of the L-4 amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-27 16:04:38 UTC
From: K5VSE
Topic: 504 Message: 507

Just for your information, Mike Bryce at the "Heathkit Shop" builds a very good circuit board with all new caps, diodes, and bleeders. The instructions to install it are very easy to understand, and there is only one circuit board when you are finished. I've done two of the L-4PS supplies, and the regulation is quite a bit better. Just do a Google search for it, and see what you think. The cost is reasonable.
I have no commercial interest in his business, just a satisfied customer.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

508. Help...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-10-30 20:15:13 UTC
From: Steve Matda
Topic: 508 Message: 508

Hi gang.

I've got a TR-4C here (SN 38xxx) with a few bugs and could use some help. Was running it on 80 meter SSB a couple of weeks back and noticed all of the sudden the plate current was stuck at about .15 amps...just a little bit above bias with about 10 watts output. Trying to adjust the plate/load control had no effect either while trying to tune. Then there was an HV flashover back in the RF cage. I turned the rig off a couple of minutes and turned it back on. Everything seemed to work normal. Later took the covers off and everything appears intact...nothing burned or even discolored. In fact it's a very clean rig
inside.

It has gotten progressively more erratic since then. Now I generally have no power below 3900 kcs--on 3950 I have 190 watts however, slowly dropping as I go down the band to the same old 10 watts out at .15 amps. Last night I cleaned the bandswitch hoping that would help, but it didn't. I have good output on 15, sporadic on 20 depending on where you are, and generally good on 40.

I know for a fact that the 9.0 Mhz oscillator crystal is erratic and needs to be replaced (the
sidebands will spontaneously shift around--usually a gentle tap on the back right of the case solves the problem). I also know that when the transmitter is acting up, I can still hear the driver output on frequency by using an another receiver.

I'm beginning to think I'm looking in the wrong place...maybe the problem is in the power supply. Any ideas?

Steve, KE4MOB

509. Fw: [drakelist] WA9TGT Unique Radio Parts closing?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-02 20:37:00 UTC
From: Don
Topic: 509 Message: 509

----- Original Message -----
From: "Jim Pruitt" <PruittJ@...>
To: <drakelist@...>
Sent: Friday, November 02, 2007 12:15 PM
Subject: [drakelist] WA9TGT Unique Radio Parts closing?

Jim Pruitt <PruittJ@...> made an utterance to the drakelist gang
---

I was just on WA9TGT's Unique Radio Parts web site at http://www.wa9tgt.com/
and notice that he has a message saying that effective on December 1, 2007
he is closing and will no longer be supplying replacement Drake parts. Does
anyone know if someone else will take up where Donnie Garrett is leaving
off?

Thank you.

Jim Pruitt

Submissions: drakelist@.zerobeat.net
Unsubscribe: majordomo@... - unsubscribe drakelist in body
Hopelessly Lost: majordomo@... - help in body of message
Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
---

510. Re: [DrakeRadio] Fw: [drakelist] WA9TGT Unique Radio Parts closing?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-02 21:21:39 UTC
From: phbjr@aol.com
Topic: 509 Message: 510

They no longer have the power supply filter capacitor replacement PCB for the 4-series receivers, either - darn! I need one for my R-4B. But I **QUICKLY* ordered the other parts I need or may need to keep things going.

Guess I'll have to "roll my own" clone of the cap board in my R-4A in order to upgrade the R-4B.

Maybe I should get hot and order the rebuild kit for my AC-4 before someone else goes out of business......;

73,

Paul, K4MSG

****
Visit me at Banjo Hangout: _http://banjohangout.org/my/Paul%20Bock/_ (http://banjohangout.org/my/Paul%20Bock/)

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

511. Color code Topcase TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-03 17:09:03 UTC
From: Daniel
Topic: 511 Message: 511

Is there an existing/common color code for the Topcase of a TR7? Or whats the name of the original color?

73 de Daniel, HB9DDS

512. Looking for a external VFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-03 23:45:49 UTC
From: Daniel
Topic: 512 Message: 512

Looking for a external VFO for my Drake TR7, like the RV7, RV75 or the DDS-7 from Woodbox. Any offer?

513. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-04 07:15:30 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 513

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

514. Drake L-4B power supply and the .082 ohm resistor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-04 15:24:56 UTC
From: Kevin Wagner
Topic: 514 Message: 514

Hello to all on the list,

I have a question... Can you replace the 0.82 ohm resistor in the L-4B power supply with a 250Volt 5amp fuse? If not what value would be good?

Thanks,
Kevin
w2fa

515. Re: [DrakeRadio] Drake L-4B power supply and the .082 ohm resistor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-04 16:25:34 UTC
From: Garey Barrell
Topic: 514 Message: 515

Kevin -

You could, but it wouldn't do much good. A 250V cartridge fuse (3AG?) will most likely not clear at the ~ 2000-2500V B+ of the L-4B. A "proper" fuse for that voltage is about six inches long, and they cost several ($4+) when you can find them. Collins used one in the KWS-1. The problem with the little fuse is that the power available vaporizes the internal element rather than just melting it, and the vapor is conductive enough to continue to conduct.

The $1 0.82 ohm _wirewound - flameproof_ resistor that Drake used works just about as well "almost" every time. It just vaporizes. Someone on the Drakelist was offering them a year or so ago, but I don't recall who it was.

I suspect you'd be better off to use a 1 ohm wirewound flameproof resistor or other value that is available.

There is another school of thought that says the resistor should be much bigger, both in value and power, and just limit the current under short-circuit conditions low enough and long enough to blow the primary fuse. I kinda like the idea of opening up as quickly as possible to protect the power transformer and other much more expensive items.

73, Garey - K4OAH
St Charles, IL

Kevin Wagner wrote:
> Hello to all on the list,
>
> I have a question... Can you replace the 0.82 ohm resistor in the L-4B power supply with a
> 250Volt 5amp fuse? If not what value would be good?
>
> Thanks,
> Kevin
> w2fa
>
>
>
>

516. RE: [DrakeRadio] Drake L-4B power supply and the .082 ohm resistor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-04 16:33:01 UTC
From: Jim Chaggaris
Topic: 514 Message: 516

Kevin:

Harbach Electronics has them at $1 a piece.

Best Regards,

Jim

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 110
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Sunday, November 04, 2007 10:26 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake L-4B power supply and the .082 ohm resistor

Kevin -

You could, but it wouldn't do much good. A 250V cartridge fuse (3AG?) will most likely not clear at the ~ 2000-2500V B+ of the L-4B. A "proper" fuse for that voltage is about six inches long, and they cost several ($4+) when you can find them. Collins used one in the KWS-1. The problem with the little fuse is that the power available vaporizes the internal element rather than just melting it, and the vapor is conductive enough to continue to conduct.

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73, Garey - K4OAH
St Charles, IL

Kevin Wagner wrote:
> Hello to all on the list,
>
> I have a question... Can you replace the 0.82 ohm resistor in the L-4B power supply with a
> 250Volt 5amp fuse? If not what value would be good?
>
> Thanks,
> Kevin
> w2fa
>
>
>
>

[Non-text portions of this message have been removed]

517. Cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-06 15:52:48 UTC
From: Daniel
Topic: 517 Message: 517

Hi folks

I own a T-4XC and a R-4C. What type (ohm, high quality etc etc) of cable are you using for:

- Carr. Osc
- PTO Lamp
- Inj.
- Mute
- RCVR Ant

Generally is it critical or not?

Daniel, HB9DDS

518. Re: Cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-09 21:18:33 UTC
From: dynamic881964
Topic: 517 Message: 518

Hi all,
I'd be interested in same... have same setup but it came without the original cables.
Thanks !
- D.

--- In DrakeRadio@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi folks
>
> I own a T-4XC and a R-4C. What type (ohm, high quality etc etc) of cable are you using for:
>
> - Carr. Osc
> - PTO Lamp
> - Inj.
> - Mute
> - RCVR Ant
>
> Generally is it critical or not?
>
> Daniel, HB9DDS
>

519. Re: [DrakeRadio] Re: Cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-09 21:37:41 UTC
From: Garey Barrell
Topic: 517 Message: 519

All original cables were 38" long tip-to-tip.

The INJ cable used a foam inner dielectric and phono connectors with a white insulation. This cable measures 60 pF total capacity.

All other cables used the standard for the day clear polyethelene inner dielectric and phenolic (brown) insulated phono connectors and measures ~100 pF.

Original Drake INJ Cable = 19 pF/ft TOTAL, including connectors = .160" o.d. (foam poly)

RG-62 = 93R = 13.5 pF/ft = 0.240" o.d.
RG-59 = 75R = 14.8 pF/ft = 0.242" o.d.
RG-6 = 75R = 16.2 pF/ft = 0.270" o.d.
RG-174= 50R = 30.8 pF/ft = 0.110" o.d.
Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
Mic Cable (Belden 8421) = Hi-Z = 16 pf/ft = 0.180" o.d. (foam poly)
R/S Audio Patch Cable = 28 pF/ft = 0.165" o.d. (poly)

The best choice is the Belden 8421 Audio cable from their "Brilliance" line. It looks just like the other cables, and is very flexible. The RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also prone to shorting if bent over too small a radius, and is susceptible to heat damage when soldering connectors. The best "feature" of RG-62 is that it is often FREE, since there have been many miles of it pulled out of old computer networks. Belden 8421 is available by the foot from ACK Electronics in Atlanta. Other distributors have it as well, although many require purchase of a full spool.

The only pertinent factor is the total capacity, impedance and "loss" are not important.

Any _reasonably low capacity_ coax will work if the units are cabled together for the adjustment of the INJ trimmers.

The cable type ONLY affects the LEVEL of the PreMix signal, (5.645 MHz ABOVE the transmit/receive frequency,) and a small DC control voltage between the two. If the shunt capacity is too high, insufficient LO level for the first mixer will reduce the sensitivity of the receiver and the output power of the transmitter. The C-Line has one additional "critical" cable, the CAR. OSC, that also requires the low capacity cable for best operation.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

dynamic881964 wrote:
> Hi all,
> I'd be interested in same... have same setup but it came without the
> original cables.
> Thanks !
> - D.
>
>
> --- In DrakeRadio@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
>> Hi folks
>>
>> I own a T-4XC and a R-4C. What type (ohm, high quality etc etc) of
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> cable are you using for:
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>> - Carr. Osc
>> - PTO Lamp
>> - Inj.
>> - Mute
>> - RCVR Ant
>>
>> Generally is it critical or not?
>>
>> Daniel, HB9DDS
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> Yahoo! Groups Links
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520. Re: [DrakeRadio] Re: Cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-10 02:22:09 UTC
From: Ted Horishny
Topic: 517 Message: 520

To the Group,
The injection cable from the

dynamic881964 <dynamic881964@...> wrote:
Hi all,
I'd be interested in same... have same setup but it came without the
original cables.
Thanks !
- D.

--- In DrakeRadio@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi folks
>
> I own a T-4XC and a R-4C. What type (ohm, high quality etc etc) of
cable are you using for:
>
> - Carr. Osc
> - PTO Lamp
> - Inj.
> - Mute
> - RCVR Ant
>
> Generally is it critical or not?
>
> Daniel, HB9DDS
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

521. TR-7 VFO bulb replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-10 21:10:50 UTC
From: chemed08080
Topic: 521 Message: 521

Anyone have any hints on replacing the # 53 bulb which illuminates the VFO dial other than removing the top board? The bulb for the "S meter" is easy. Any suggestions would be appreciated.

522. RE: [DrakeRadio] TR-7 VFO bulb replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-11 00:58:22 UTC
From: Steve Finch
Topic: 521 Message: 522

I don□t have any easy way to replace it, but I have replaced the bulb with a high intensity LED. It simple, just put in a resistor to set the proper voltage (based on current draw of the LED) and it should be the end of having to open up the rig to replace that bulb.

Steve

AIØW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of chemed08080
Sent: Saturday, November 10, 2007 2:11 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-7 VFO bulb replacement

Anyone have any hints on replacing the # 53 bulb which illuminates the VFO dial other than removing the top board? The bulb for the "S meter" is easy. Any suggestions would be appreciated.

[Non-text portions of this message have been removed]

523. Drake L-4(b) amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-11 22:08:55 UTC
From: Kevin Wagner
Topic: 523 Message: 523

Members,

I need some help. I have negitive grid current when I turn on my amp. I have replaced the tubes and still have negitive current. I checked and have found one of the RF chokes were bad and purchased and replaced the choke and the caps along the tube sockets. I am stumped because no luck. Any ideas?

-Kevin
w2fa

524. Drake TR-3 No Ouput on Transmit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-11 22:50:14 UTC
From: Jeff
Topic: 524 Message: 524

Hi All,

I got a question on the 12JB6 finals for Grids 1 & 2.

In receive all pins check check out except for Grid 1 pins 1 & 6 both measure about -74vdc

The receiver works just fine.

I set the bias and checked out the tranmitter and no output at all.

I verified that the transmit cathodes are going to ground and all voltages check out on the finals except for the grid voltage for grids 1 & 2. Grid 1 & 2 both still measures same as receive (-74vdc) and Grid 2 measures 241 vdc on pins 1 & 7.

any ideas

73
Jeff

525. Who's replacing Unique Radio Parts?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-14 22:00:13 UTC
From: phbjr@aol.com
Topic: 525 Message: 525

With Unique Radio Parts LLC going out of business as of Dec. 1, is there anyone else picking up where they left off? I was able to order a few parts I needed from their remaining stock, but they're sold out of the R-4 series power supply capacitor replacement PCB + 4 caps and I need to re-cap a -4B.

73,

Paul, K4MSG

********** See what's new at http://www.aol.com

[Non-text portions of this message have been removed]

526. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-18 22:14:43 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 526

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

527. Plate meter needed L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-24 12:32:38 UTC
From: Mike-K5VSE
Topic: 527 Message: 527

I am in need of a plate meter for the Drake L-4B amp. I believe the L-4 is the same meter. From time to time I have seen parts listed for sale on the various lists and am hopeful that someone might have one from a broken amp. Any help greatly appreciated. Please answer direct to my email, as I don't check all the lists very often.

mdewey@...

Thanks to all es 73,
Mike/K5VSE

528. 9 MHz Oscillator won't quite adjust

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-24 12:44:15 UTC
From: w5su_tx
Topic: 528 Message: 528

On my TR-4 I can't quite get the pitch of the hiss to equalize on both sidebands using C130. I get decent output and good signal reports on the "non-X" position, but output is down some, and I sound "tinny" in the "X-position". If the crystal were bad, would I even put out ANY signal in that position? Is there some other component in that circuit I should suspect? I've got a T4X-B on the shelf that I suppose I could borrow a crystal from for troubleshooting...does it use the same ones? (I'm too lazy to walk across the room right now and check its manual!).

Many thanks for info.

'73...

Carl - W5SU
Dallas TX

529. Fw: AM filter for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-24 21:30:12 UTC
From: Don
Topic: 529 Message: 529

----- Original Message -----
From: "Willaim C. Taylor" <wctaylor@...>
To: <DrakeRadio-owner@yahoogroups.com>
Sent: Saturday, November 24, 2007 10:49 AM
Subject: AM filter for TR7

> Anyone have a SL 6000 am filter for sale or trade? I have a spare SL 500
> cw filter and SL 2300 ssb filter if anyone needs them.
>
> Thanks and 73's
> Bill
> KD4LXC

530. 2B crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-25 04:02:27 UTC
From: Randy
Topic: 530 Message: 530

Does anyone know where I can obtain crystals for my 2B? I'm actually looking to get a couple of SW Broadcast band crystals. Probably 49m and 19m. Anyway, if anyone knows of a source, I'd appreciate hearing from you.

Thanks and 73's

Randy

531. Re: [DrakeRadio] 2B crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-25 06:00:00 UTC
From: Richard Arland, W3OSS
Topic: 530 Message: 531

Actually, the older Xtal controlled CB sets from the 60-70s work. I pulled a channel 13 rock from an old CB rig and got 49 meters, if I remember correctly.

Jan Crystals in Ft. Meyers, FL, will grind what ever you need. Not sure about today's prices, but they do good work and I have used them recently for military radios with excellent results.

Just Google Jan Crystals and you'll get the website.

73 Rich W3OSS

532. Re: [DrakeRadio] 9 MHz Oscillator won't quite adjust

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-25 19:29:02 UTC
From: Garey Barrell
Topic: 528 Message: 532

Carl -

It's quite possible you have a bad filter. What is the serial number of the unit?

There are two filters, set to either side of 9.000 MHz. If you think of them as a letter "M". the carrier should sit in the trough in the middle, and the appropriate audio frequencies will be passed by either filter. If the carrier osc is displaced up one side of the trough, that side will emphasize bass frequencies and clip off high frequencies. The other side will emphasize the highs and clip off the bass. Consequently, if one filter has a bad crystal, resulting in a narrower point at the top of the M, one side will be good and the other will clip either the highs or lows, or even have a "hole" in the middle, resulting in distortion.

Since setting the carrier osc frequency "by ear" relies on equal integrated b/w on BOTH filters, if one filter has a distorted passband you will be unable to find a spot where the noise will sound the same.

You can check the filters in receive. Simply turn on the calibrator and tune slowly through the beat note while watching the S-Meter. As you approach the calibrator signal on the dial, you will hear either a high or very low note, depending upon which way you are tuning and which filter is selected. Regardless, you will first hear the signal at a very low S-meter reading, and as you continue tuning the same direction, the meter should increase sharply but smoothly to a peak, then remain at the same approximate level for about 2.3 kHz on the dial, and then drop off sharply but smoothly. The peak level should occur with an audio tone of approximately 300 Hz and then drop off when an audio tone of ~ 2.5 kHz is reached. If the drop-off occurs before you tune ~ 2.3 kHz, or if there is a significant drop within that 2.3 kHz range, you have a bad filter. If this filter looks ok, then switch the SIDEBAND switch to the other sideband and repeat.

The carrier crystal and filters in the T-4X series are at a different frequency and cannot be substituted for the ones in the TR-4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

w5su_tx wrote:
> On my TR-4 I can't quite get the pitch of the hiss to equalize on both
> sidebands using C130. I get decent output and good signal reports on

> the "non-X" position, but output is down some, and I sound "tinny" in
> the "X-position". If the crystal were bad, would I even put out ANY
> signal in that position? Is there some other component in that
> circuit I should suspect? I've got a T4X-B on the shelf that I
> suppose I could borrow a crystal from for troubleshooting...does it
> use the same ones? (I'm too lazy to walk across the room right now and
> check its manual!).
>
> Many thanks for info.
>
> '73...
>
> Carl - W5SU
> Dallas TX
>
>
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>
> Yahoo! Groups Links
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>
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>

533. Re: [DrakeRadio] 2B crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-26 02:48:17 UTC
From: Ted Horishny
Topic: 530 Message: 533

I've used JAN Crystals in the past for a good number of years there ok and inexpensive. ICM (International Crystal) crystals are a little more costly, seem to preform better in the longrun in my 2B and 4B. Just my $.02
Ted WT2G

"

Never miss a thing. Make Yahoo your homepage.

[Non-text portions of this message have been removed]

534. Re: [DrakeRadio] Re: T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-29 20:15:51 UTC
From: Ryan Pigg
Topic: 491 Message: 534

Hi Group,

I'm back at it again with this xmtr and I can get 100W on 80m with no problem, 0W on 40, about 50W on 20m, 10W on 15 and 10m.

Garey, many thanks for your advice on the switches - never thought the cores could swell up and that could happen by soaking them with cleaner. I looked at the switch, and it looks OK, I used R5 spray, and a small eraser to clean the oxidation off. I also pulled the balanced mod and it appear to be OK.

So last night I decided to verify that the drivers and finals are OK, and basically they are. With 10dBm of drive at the grid (before the 15 ohm resistor) of the 12BY7, I get 100W ouput on the bands. (I did not get around to check 10 yet) I did notice the plate control was touchy at the higher freqeuncies though. Also, I did notice that alot of the trimmer caps (toward rear - driver ckt) were in need of alignment. The power came up when these were aligned for peak power. It appears as if someone has twisted caps around in this unit.

Moving to the premixer circuit on the 40 m band, I have the 18.1MHz and the VFO signal. I injected a 18.1MHz - vfo freq and cameup with 12.6 (approx) MHz. I injected this signal at the plate of the premixer tube (I pulled the tube out) I tried to trace the signal through, peaked the 'front' trimmer caps for the 40m band, but nothing. I injected the signal near the Mixer tube but still had no output. Maybe a switch, cap, one of those can xfmr's?? I also noticed a coil with a single turn of wire around it, this appears where the signal is picked off and fed to the mixer tube. Any idea's as to what the amplitude should be at this point?

I plan to get at again in the next few days. Also does anyone have the 'advanced align procedure' mentioned in the manual? The manual only has a 'rough' alignment procedure and says to contact the factory for complete alignment instructions.

Thanks and I hope everyone had a great Thanksgiving.
Regards, Ryan, N7QJ

Garey Barrell <k4oah@...> wrote:
Ryan -

OK. There have been a few reports of trouble with T-14. The four
diodes of the Balanced Modulator are INSIDE T14, pretty tightly packed,
and can short against the can, which is not good! :-)

The originals are germanium, usually 1N541, a few 1N270. Best to
replace them, IF necessary, with 1N5711 or similar Schottky diodes.

CAIG DeoxIT, D100L if you can find it, if not D5 sprayed into the cap
and put directly on contacts with a syringe or pipette, will resolve
most switch problems. Some claim that with some spray "cleaners" will
cause the phenolic wafers to swell. I have seen ONE case where the

phenolic wafers were distorted enough that the contacts were
misaligned. The owner said he had sprayed it with "contact cleaner",
but didn't remember the brand. There was an oily residue ALL OVER the
switch area, including the chassis, all parts, etc. A real mess that
ended up as a parts unit.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

tweeker42000 wrote:
> Garey,
> Well, I spent some more time on it tonight and the short story is
> that it is working now - something is intermittent in the vicinity of
> the switches and/or T14. The signal was there at R15/C146. I shut
> it down tonight and will see what I can get with it tomorrow.
> Tapping around did not make it stop working. We'll see...
>
> Thanks, Ryan
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Ryan -
>>
>> Sounds like you are pretty knowledgeable, and have done all
>>
> the "right"
>
>> things. Makes it tough! :-)
>>
>> Your message is a little ambiguous about the presence of the Premix
>> signal at R15/C146. Is it there?
>>
>> A "working" T-4XB can be tuned up at 5.645 MHz by inappropriate
>>
> setting
>
>> of the RF TUNE on 80M, eliminating the requirement for the Premix
>>
> signal
>
>> entirely, to check the signal path.
>>
>> You don't say "where" you don't have the DSB signal. The signal at
>>
> T3
>
>> should be SSB, depending upon the SIDEBAND switch setting.
>>
>> Just a guess at this point, T3 or surrounding wiring may have a

>> problem. The Premix is injected into the "bottom" of the T3
>>
> secondary
>
>> via C146, while the SSB is coupled in via the primary of T3.
>>
>> Let us know what you find!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
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>>
>>
>> tweeker42000 wrote:
>>
>>> Hello group:
>>>
>>> I am new to this and to drake equipment. My addiction to
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> boatanchors
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>>> started with some Hallicrafters equipment, and I just recently
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> picked
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>>> up a Drake T4XB. When I got it home and fired it up I was able
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> to
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>>> get bias, but turning up the gain control resulted in no output,
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> no
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>>> plate current on the meter. I started out by checking all the
>>> voltages and found them to be OK, I checked all tubes in the path
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> and
>
>>> they were OK as well. I checked the carrier osc at pin 3 of V1A,
>>> checked the PTO at pin 7 of V8, checked the band osc at pin 1 of
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> V8.
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>>> I have the mixed output from the plate of V8. The cathode
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> voltage on
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>>> the mixer and IF amp changes from 150 to 1-2V when I switch it to
>>> tune.
>>>
>>> What I have noticed is somehow the signal from the Pre-mixer is
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> not
>
>>> at V3, and I do not have have DSB output from the balanced
>>> modulator. There are alot of switches and I did not get time to
>>> trace it through tonight - but I did verify that the driver and
>>> finals can put out a signal at 3750 by injecting a signal to pin
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> 2 of
>
>>> the 12BY7 driver. With 8dBm I got 50 watts out, and with 13dBm I
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> had
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>>> 100 watts out. I also had a plate current indication on the
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> meter.
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>>> So it seems that circuitry is working.
>>>
>>> So has anyone seen the premix signal not getting to V3 (I looked
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> for
>
>>> a signal at R15/C146) -- Anything simple? your help is much
>>> appreciated!
>>>
>>> Regards, Ryan, N7QJ
>>>
>>>
>

[Non-text portions of this message have been removed]

535. Re: [DrakeRadio] Re: T4XB no transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-11-29 20:58:44 UTC
From: Garey Barrell
Topic: 491 Message: 535

Ryan -

OK, you have eliminated some possibilities. Have you checked the Final neutralization? This can cause some squirrelly tuning of the Plate control.

The two rearmost trimmers are the Grid and Plate of the 12BY7 Driver stage. Be careful to not short the trimmer to the chassis while adjusting! Hard on a little half watt resistor that gets connected directly across the +250 VDC supply. Not good!

Here are some levels in the T-4XC which should be similar.

Carrier Oscillator (Arm of Carr Bal Pot) - 4.2V p-p

PTO (Coax at Switch) - 2V p-p Sine Wave

Band Oscillator (Collector of Q-7) - 1.5V p-p

V-8 Plate (Pin 7) - 3V p-p Complex Waveform (Xtal Osc & PTO)

T-2 Secondary (GAIN just below saturation)
Tune 3V p-p DSB
CW 2V p-p Carrier

T-3 Secondary (Tune)
Top (C27) 2 V p-p Carrier Oscillator
Bottom (R32) 3.3V p-p Premixer Output

V-4 Grid (Pin 2) (Tune)
6V p-p (GAIN just below saturation)

According to Bill Frost, the "Advanced Alignment Procedure" never existed. The procedure in the manual is all you need, especially if you have a scope and/or counter to make sure you're peaking the "right" frequency! Unless someone has been "fixing" it before you, the panel meter is all you really need to complete an alignment.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
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Ryan Pigg wrote:
> Hi Group,
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> I'm back at it again with this xmtr and I can get 100W on 80m with no problem, 0W on 40, about 50W on 20m, 10W on 15 and 10m.

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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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536. Trim Ring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-02 21:54:52 UTC
From: wintersolem
Topic: 536 Message: 536

There used to be a trim ring available for TR-3, T-4X, and R-4A series equipment that indicated the sideband offset frequency. It looked like a ring that wasn't quite complete, but ended in a pair of prongs that indicated the offset. I had one on my TR-3 and am looking for another. Does anyone know of a source for these rings?

Thanks!

Mark Wintersole
WB5NMZ
Montgomery AL

537. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-02 22:40:50 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 537

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

538. Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-02 23:19:28 UTC
From: Richard Arland, W3OSS
Topic: 538 Message: 538

Hello to the group. I have been a member for a few weeks but don't remember actually introducing myself.

I was first licensed as KN7YHA in June of 1963 while a junior in high school. Currently hold an Amateur Extra license that required 20WPM at the time. Do a lot of CW operation, QRP DXing, contesting, and really enjoy the hobby. Born and raised in the "Palouse Empire", a farming region in eastern Washington (state) just south of Spokane. Grew up with Drake, Collins, EF Johnson, Dow Key relays, Multi-Eimac, etc. All of which were way over my high school budget.

Spent 20 years in the USAF Comm Command, traveled all over the world, licensed as CT2BH (Azores), G5CSU (UK), DA2NE (W. Germany), KA2AA (Japan).

Spent 17 years as a VoEd electronics instructor for the Pennsylvania Dept of Corrections. Retired from that job 2 years ago and am now fully retired, which, when properly translated means I am the full time babysitter for 7 grand kids!

Over the years I have written countless articles for the radio hobby press: QST, CQ, CQ-VHF, Pop Comm, Monitoring Times, National Communications, to name a few. From 2000 to 2004 I was the first (and only, so far) QRP column editor for QST magazine.

Authored six books, the last three for the ARRL on QRP.

I enjoy sunsets, long walks on the beach, kittens, handguns that begin with a "4" as the first number of the caliber, camping, and photography.

My boatanchor restoring days are about over. Not enough room. I currently have an absolutely mint TR-4Cw (RIT), with matching PSU, W-4 wattmeter, and speaker. I would like to get the RV-4C, and matching console to round out the entire station.

My other "ham radio vice" is MilCom gear. Love the green gear. My pride and joy is a TM/TO complete AN/PRC-64 Special Ops/spy rig that has a massive 5W output on CW and 1.5W output on AM. My other prize is a fully restored AN/PRC-74B with matching PSU/charger that is in daily use at W3OSS.

73 Rich W3OSS (EX: K7YHA, K7SZ)

539. Re: [DrakeRadio] Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 01:43:39 UTC
From: Don
Topic: 538 Message: 539

Welcome to the group ! Sounds like you tend to keep busy !
Please feel free to upload you station pics, or any Drake related files or links, to the groups homepage. And if you have not allready done so, please check the links section of the homepage for some of the more established e-mail reflectors and websites. This group was started due to the owner of the previous Drake yahoo group left and the list was taken over by spam.
And please do not be shy in asking or answering questions here. Again welcome to th group!
Don
AD7LL

----- Original Message -----
From: Richard Arland, W3OSS
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 02, 2007 4:19 PM
Subject: [DrakeRadio] Drake group newbie!

Hello to the group. I have been a member for a few weeks but don't remember actually introducing myself.

I was first licensed as KN7YHA in June of 1963 while a junior in high school. Currently hold an Amateur Extra license that required 20WPM at the time. Do a lot of CW operation, QRP DXing, contesting, and really enjoy the hobby. Born and raised in the "Palouse Empire", a farming region in eastern Washington (state) just south of Spokane. Grew up with Drake, Collins, EF Johnson, Dow Key relays, Multi-Eimac, etc. All of which were way over my high school budget.

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[Non-text portions of this message have been removed]

540. Re: [DrakeRadio] Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 02:38:51 UTC
From: Richard Arland, W3OSS
Topic: 538 Message: 540

Thanks, Don.

In checking out my TR-4Cw, I noticed that about all I could get for RF out was around 40W. The Ip says around 300mA. It loads fine, but the output is low.

Methinks that I have some soft finals. Any place in particular that the "Drake Dudes" go when they need three PA tubes??

73 Rich W3OSS

541. Re: [DrakeRadio] Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 03:06:18 UTC
From: Garey Barrell
Topic: 538 Message: 541

Rich -

Those numbers would indicate that you are leaving 155W in the 6JB6 final plates. Unlikely unless they are cherry red!

You might want to check the condition of the meter shunt resistor.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Richard Arland, W3OSS wrote:
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>
> In checking out my TR-4Cw, I noticed that about all I could get for RF out
> was around 40W. The Ip says around 300mA. It loads fine, but the output is
> low.
>
> Methinks that I have some soft finals. Any place in particular that the
> "Drake Dudes" go when they need three PA tubes??
>
> 73 Rich W3OSS
>
>
>
>

542. tr4 variant...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 20:27:11 UTC
From: f4ere
Topic: 542 Message: 542

i have a tr4 serial number 27807 and i noticed some differences with the manual i have donwload : v5 is a 6ba6 instead of 12ba6 and v11 is a 6bz6 instead of a 12ba6 .Is there any difference for this serial number ? At last a pdf of the manual will be very appreciated !
thanks serge F4ERE

543. Re: [DrakeRadio] tr4 variant...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 20:49:19 UTC
From: Tim Kass
Topic: 542 Message: 543

Hello, not sure if I can help much, but do remember that the older version of the TR-4 had a "soup can" type enclosure for the 4 pole crystal filters on the under side...the newer version used the more familiar 2 individual 8 pole crystal filters...also..the 6BZ6 is a "hotter" RF tube than the 12BA6 and I think it came out later as well....so my guess is you got a newer version of the TR-4, but check the selectivity filters on the under side right in the middle front of the radio..to be sure..

73, Tim K8WBL

f4ere <f4ere@...> wrote: i have a tr4 serial number 27807 and i noticed some differences with
the manual i have donwload : v5 is a 6ba6 instead of 12ba6 and v11 is
a 6bz6 instead of a 12ba6 .Is there any difference for this serial
number ? At last a pdf of the manual will be very appreciated !
thanks serge F4ERE

Everything you want is inside you
All you fear is there as well
If you let another tell you how to live
You have made your personal hell

Never miss a thing. Make Yahoo your homepage.

[Non-text portions of this message have been removed]

544. Re: [DrakeRadio] Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 22:44:57 UTC
From: Richard Arland, W3OSS
Topic: 538 Message: 544

Hi Garey:

Thanks for the info. Let me fire that rig up again, put the URM-120 and cantenna on it and get some new data. If you don't mind, I will contact you off-list with the new data and maybe find out what is wrong with this outstandingly beautiful set. I really would like to have this rig up and running 100% this winter.

vy 73

Rich W3OSS

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, December 02, 2007 10:06 PM
Subject: Re: [DrakeRadio] Drake group newbie!

| Rich -
|
| Those numbers would indicate that you are leaving 155W in the 6JB6 final
| plates. Unlikely unless they are cherry red!
|
| You might want to check the condition of the meter shunt resistor.
|
| 73, Garey - K4OAH
| Glen Allen, VA
|
| Drake 2-B, 4-B & C-Line Service Supplement CDs
| <www.k4oah.com>
|
|
|
| Richard Arland, W3OSS wrote:
| > Thanks, Don.
| >
| > In checking out my TR-4Cw, I noticed that about all I could get for RF
out
| > was around 40W. The Ip says around 300mA. It loads fine, but the output
is
| > low.
| >
| > Methinks that I have some soft finals. Any place in particular that the
| > "Drake Dudes" go when they need three PA tubes??
| >
| > 73 Rich W3OSS

| >
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| >
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|
|
| Yahoo! Groups Links
|
|
|

545. Re: [DrakeRadio] tr4 variant...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-03 22:59:41 UTC
From: Garey Barrell
Topic: 542 Message: 545

Serge -

There were 12 versions of the TR-4/C transceiver.

Yours is what I call version 5, which was the second of the TR-4B models. This version has the twin eight-pole filters, the FET PTO, the neon indicator behind the Main Tuning knob and is the first to have the top cover over the PA cage. The correct schematic is 466827500. The tube in V11 was changed from a 12BA6 to a 6BZ6 to increase the IF gain to compensate for the increased loss in the eight-pole filters over the earlier four-pole units. V5 was changed to a 6BA6 briefly, then to a 6BZ6 at the same time to make the series/parallel filament string work out right!

There were some passive component changes as well as a part of these changes, plus some other minor tweaks.

I have the correct schematic in my Service Supplement CD for the TR-4C, which I hope will be available shortly. If your email can accept a 6 MB attachment I can email a high quality image of the schematic that will print out at either 8.5 x 14" Legal size or 11" x 17" or larger if you have access to a big printer. It will also print at 24" x 48" if you want a wall size.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

f4ere wrote:
> i have a tr4 serial number 27807 and i noticed some differences with
> the manual i have donwload : v5 is a 6ba6 instead of 12ba6 and v11 is
> a 6bz6 instead of a 12ba6 .Is there any difference for this serial
> number ? At last a pdf of the manual will be very appreciated !
> thanks serge F4ERE
>
>
>

546. Re: [DrakeRadio] Drake group newbie!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-04 03:51:39 UTC
From: Garey Barrell
Topic: 538 Message: 546

Rich -

Let me know what you find out. The meter shunt resistor is a 2 ohm,
1/2W carbon, and they do go up in value, resulting in "optimistic" plate
current readings!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Richard Arland, W3OSS wrote:
> Hi Garey:
>
> Thanks for the info. Let me fire that rig up again, put the URM-120 and
> cantenna on it and get some new data. If you don't mind, I will contact you
> off-list with the new data and maybe find out what is wrong with this
> outstandingly beautiful set. I really would like to have this rig up and
> running 100% this winter.
>
> vy 73
>
> Rich W3OSS
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, December 02, 2007 10:06 PM
> Subject: Re: [DrakeRadio] Drake group newbie!
>
>
> | Rich -
> |
> | Those numbers would indicate that you are leaving 155W in the 6JB6 final
> | plates. Unlikely unless they are cherry red!
> |
> | You might want to check the condition of the meter shunt resistor.
> |
> | 73, Garey - K4OAH
> | Glen Allen, VA
> |
> | Drake 2-B, 4-B & C-Line Service Supplement CDs
> | <www.k4oah.com>
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> |

> |
> | Richard Arland, W3OSS wrote:
> | > Thanks, Don.
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> | > In checking out my TR-4Cw, I noticed that about all I could get for RF
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> | > was around 40W. The Ip says around 300mA. It loads fine, but the output
> is
> | > low.
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> | > Methinks that I have some soft finals. Any place in particular that the
> | > "Drake Dudes" go when they need three PA tubes??
> | >
> | > 73 Rich W3OSS
> | >

547. Re: tr4 variant...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-04 19:30:27 UTC
From: f4ere
Topic: 542 Message: 547

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Serge -
>
> There were 12 versions of the TR-4/C transceiver.
>
> Yours is what I call version 5, which was the second of the TR-4B
> models. This version has the twin eight-pole filters, the FET PTO,
the
> neon indicator behind the Main Tuning knob and is the first to have
the
> top cover over the PA cage. The correct schematic is 466827500.
The
> tube in V11 was changed from a 12BA6 to a 6BZ6 to increase the IF
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> to compensate for the increased loss in the eight-pole filters over
the
> earlier four-pole units. V5 was changed to a 6BA6 briefly, then to
a
> 6BZ6 at the same time to make the series/parallel filament string
work
> out right!
>
> There were some passive component changes as well as a part of
these
> changes, plus some other minor tweaks.
>
> I have the correct schematic in my Service Supplement CD for the TR-
4C,
> which I hope will be available shortly. If your email can accept a
6 MB
> attachment I can email a high quality image of the schematic that
will
> print out at either 8.5 x 14" Legal size or 11" x 17" or larger if
you
> have access to a big printer. It will also print at 24" x 48" if
you
> want a wall size.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>

>
>
> f4ere wrote:
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> > the manual i have donwload : v5 is a 6ba6 instead of 12ba6 and
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> > a 6bz6 instead of a 12ba6 .Is there any difference for this
serial
> > number ? At last a pdf of the manual will be very
appreciated !
> > thanks serge F4ERE
> >
> >
> >
>
thank for all replies , now i know !!! (in french we say 'jeu de
mot ') i have download a pdf with the two 6bz6 instead of 12ba6 ,
so i think i can use it... in fact it's very interesting for the
quartz filters !!!! best 73 Serge.

548. RV-7 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-04 20:13:27 UTC
From: Floyd Sense
Topic: 548 Message: 548

Anyone know of an online source of a downloadable RV-7 schematic? I've searched quite a bit and checked the BAMA site with no success.

549. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-04 21:45:13 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 549

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /RV-7.pdf
Uploaded by : hb9dds <schaeffler@...>
Description : Manual/schenatic RV7

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/RV-7.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

hb9dds <schaeffler@...>

550. Re: RV-7 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-04 21:46:08 UTC
From: Daniel
Topic: 548 Message: 550

Have a closer look at the files section

Daniel, HB9DDS

551. Re: [DrakeRadio] Re: RV-7 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-05 02:54:26 UTC
From: Floyd Sense
Topic: 548 Message: 551

OK - thanks.

73, K8AC

Daniel wrote:
>
>
> Have a closer look at the files section
>
> Daniel, HB9DDS
>
>

552. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-16 22:13:01 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 552

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

553. Drake R4-A restoration

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-21 06:29:40 UTC
From: Alexandre Mater
Topic: 553 Message: 553

Colleagues,

I am working on the restoration of a receiver Drake R-4A and I´m having some problems, among them that it is difficult solution:

When I turn on the receiver, the S-meter scales up and the sensitivity is minimal.

After some time, I find the following situation: with the RF gain at minimum, the S-Meter indicates +40 dB and with the RF gain at maximum, under 0dB.

I measured some tension on the lines of AVC1 and AVC2 as below.

Any help will be very appreciated.

Regards,

Alexandre Mater
PU5-ALE

RF Gain AVC1 (volts) AVC2 (volts)
AVC Off Maximum -0,59 -0,58
Minimum -14,76 -14,75
Fast AVC Maximum -0,38 -0,48
Minimum -3,8 -4,65
Slow AVC Maximum -0,4 -0,48
Minimum -4,6 -4,64
AM Maximum -0,48 -0,48
Minimum -4,6 -4,64

[Non-text portions of this message have been removed]

554. First Rig

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-21 14:58:20 UTC
From: Randy
Topic: 554 Message: 554

Here are a couple of questions I've been asking on various groups and email lists. As a new amateur (lets assume General Class), what would your recommend for a first rig for HF phone? Is a transceiver the best option? I already have two receivers, a Kenwood R-5000 and a Drake 2-B. What transmitter would you mate to those receivers, or wouldn't you recommend doing that as a first rig? I'm interested in any and all opinions. Since I do not have a endless source of capital, consider cost when you make suggestions. Thanks for all your help.

73,
Randy

555. Re: First Rig

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-22 00:27:48 UTC
From: Floyd Sense
Topic: 554 Message: 555

I generally don't recommend older tube gear as a first rig. Not that it can't do the job for you, but if you don't have the technical knowledge and some basic test equipment to service it yourself, you may run up some hefty service and shipping charges in getting it fixed. Part of the advantage of the old gear is that it CAN be worked on at home by a reasonably technical ham with some basic test gear. I've bought and sold a lot of used gear over the years, and in recent years have found that 100% of the units I've bought, whether from an individual in person or over the Internet, have had at least one problem that I had to fix. The other problem is that the boatanchor prices have just gotten all out of proportion to the equipment's true value. For collector-quality appearance, maybe that can be justified, but it's hard to see why anyone would pay the steep prices for something with rust inside and out! Just so as to not seem too discouraging, any of the old Drake R4/T4X lines would be a good choice and the performance would far exceed most of the stuff that's 4 times the size and twice the price. They generally are stable compared to other stuff of their era and are readily fixable.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb13@...> wrote:
>
> Here are a couple of questions I've been asking on various groups and
> email lists. As a new amateur (lets assume General Class), what would
> your recommend for a first rig for HF phone? Is a transceiver the
> best option? I already have two receivers, a Kenwood R-5000 and a
> Drake 2-B. What transmitter would you mate to those receivers, or
> wouldn't you recommend doing that as a first rig? I'm interested in
> any and all opinions. Since I do not have a endless source of
> capital, consider cost when you make suggestions. Thanks for all
> your help.
>
> 73,
> Randy
>

556. Re: First Rig

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-23 04:34:01 UTC
From: Steve Matda
Topic: 554 Message: 556

Well, I can only really think of two "modern" HF radios that I would recommend for the beginner, and that's the Icom 718 and Yaesu 840 (and I'm a Kenwood man myself, if that tells you anything). Simple and bulletproof.

Going back 15 or so years...I have used a Kenwood 450 since I became a ham, and can recommend it. 30 years...the Kenwood 430..or the Drake TR-7. The TR-7 is looking to hold its value very well, as eBay usually has them for around $500 including the PS-7. Not bad for a 30 year old rig.

40 years...I've got a Drake TR-4C that is just a blast to use on SSB. (On AM I use the TS-450 as an exciter for a dual 4-400A amp and a Drake R-8 as a receiver...that Drake super-wide passband tuning and Synchronous Detection is the cat's meow for AM work.)

As for modern rigs...I tend to find all the menu driven features...annoying. I've used a Icom 706 and 746 and Yaesu 857, and can honestly say that I NEEDED the manual to operate, and spent more time diddling with the settings than I did actually operating. It's pretty bad when you have to consult the manual to figure out how to change the mic gain!!

All that said...with 13 years under my belt my NEXT radio will either be a Kenwood 850 or a Drake TR7.

Hope this helps..

Steve, KE4MOB

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb13@...> wrote:
>
> Here are a couple of questions I've been asking on various groups and
> email lists. As a new amateur (lets assume General Class), what would
> your recommend for a first rig for HF phone? Is a transceiver the
> best option? I already have two receivers, a Kenwood R-5000 and a
> Drake 2-B. What transmitter would you mate to those receivers, or
> wouldn't you recommend doing that as a first rig? I'm interested in
> any and all opinions. Since I do not have a endless source of
> capital, consider cost when you make suggestions. Thanks for all
> your help.
>
> 73,
> Randy
>

557. RE: [DrakeRadio] Re: First Rig

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-23 05:10:10 UTC
From: John Page
Topic: 554 Message: 557

New to ham radio and looking for a cheap easy radio. Kenwood TS-120 or TS-130. Cant work split but that can come later. Have had 4 of them over 30 years and they are great. never had the first problem with any of them. Did have one more that was a 130 but it was broken when i got it and I got it for possible repair. Still have it and its still broke. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: smatda@...
Date: Sun, 23 Dec 2007 04:34:01 +0000
Subject: [DrakeRadio] Re: First Rig

Well, I can only really think of two "modern" HF radios that I would

recommend for the beginner, and that's the Icom 718 and Yaesu 840 (and

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Synchronous Detection is the cat's meow for AM work.)

As for modern rigs...I tend to find all the menu driven

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time diddling with the settings than I did actually operating. It's

pretty bad when you have to consult the manual to figure out how to

change the mic gain!!

All that said...with 13 years under my belt my NEXT radio will either

be a Kenwood 850 or a Drake TR7.

Hope this helps..

Steve, KE4MOB

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb13@...> wrote:

>

> Here are a couple of questions I've been asking on various groups and

> email lists. As a new amateur (lets assume General Class), what would

> your recommend for a first rig for HF phone? Is a transceiver the

> best option? I already have two receivers, a Kenwood R-5000 and a

> Drake 2-B. What transmitter would you mate to those receivers, or

> wouldn't you recommend doing that as a first rig? I'm interested in

> any and all opinions. Since I do not have a endless source of

> capital, consider cost when you make suggestions. Thanks for all

> your help.

>

> 73,

> Randy

>

Get the power of Windows + Web with the new Windows Live.
http://www.windowslive.com?ocid=TXT_TAGHM_Wave2_powerofwindows_122007

[Non-text portions of this message have been removed]

558. How To....?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-23 15:24:38 UTC
From: Sprint
Topic: 558 Message: 558

I just acquired an R4B. The copper chassis has big blotches of discoloration.

What is the secret of returning the chassis back to a nice shiny condition without removing/damaging the tube nomenclature?

Thanks in advance!

Joe Wolfe
WA6RKN

[Non-text portions of this message have been removed]

559. TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-24 06:49:27 UTC
From: Paul
Topic: 559 Message: 559

I am in the process of installing an AC-4R power supply board into my AC-4 supply.Wonder if anyone has had any problems or tips on this board??

In the same vein I have a TR-4C/RV-4C/MS-4 that I want to put back on the air.My dad (KW5T)and I got it new back 1972 from Henry Radio and it has been a great radio with minimal problems.After several years of non use I felt it was time to bring it back to life and enjoy it again.

My question is this: My dad was a heavy smoker and the inside of the radio has that brown nicotine coating.The front and cabinet cleaned up pretty good with 409 and a paper towel.Is there anything I can use that will remove the nicotine from the underside without harming the components, especially coil forms and plastics?I know there is at least one intermittent tube socket and I am contemplating using De-Ox-It on the tube sockets and all switches and controls. I hope that will minimize or eliminate the intermittents.I'm sure the nicotine hasn't helped it any.Some of the tubes are microphonic if I remember correctly so I will be having to replace them.I would like to eventually have a full spare set of tubes including the finals for the radio.

Is there a source for the PM-12 (or #12??) antenna fuse lamps?At one time Mouser carried them but I have not checked the internet for another source for them.

I also am concerned about the multisection electrolytic in the radio.I may either need to replace it with several individual ones assembled onto a small PCB.Any suggestions?What about the tubular caps in the radio?Should they be swapped out as well??

I don't have access to a variac when I power the radio up for the first time but the last time the radio was powered up (2002) it was working just fine though the output was intermittent, probably from non use.An extensive "burn-in" is planned for the radio.

Anyone have a recommendation for a microphone for the radio?I have one that I use with my TS-520S but I'd like to have one dedicated for use with the TR-4C.Originally an Elctro Voice "banana" microphone was used but it went out while my dad had the radio.

Thanks for your help and I look forward to your input.

Paul WB0CJB

560. Re: TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-24 14:05:56 UTC
From: Dave
Topic: 559 Message: 560

Paul,

The only part of your message I can respond to will throw you fora loop at first. As far as cleaning the unit take out the tubes, then run it through a dishwasher. That is right, a dishwasher. I had done that with several old Motorola tube type units, and some Heathkit HW 18s. Just make sure that EVERYTHING is 100% dried out before applying power after.

Now, the caveat that I will add is that at the time I did this we were talking maybe 1960s vintage radios going through the dishwasher in the 1970s. Today there may be more concern with drying out caps, etc. We are still talking 1960s vintage radios, but now instead of ten years later, we are talking forty years later.

One other thing. As far as that awful tobacco smell goes, if you have small enough parts put them in a plastic bag with a dryer sheet for a few days, it will take the tobacco smell away. Of course it does nothing for the looks.

73,

Dave, N0TXJ

--- In DrakeRadio@yahoogroups.com, "Paul" <lonelyone_64109@...> wrote:
>
> I am in the process of installing an AC-4R power supply board into
my
> AC-4 supply.Wonder if anyone has had any problems or tips on this
> board??
>
> In the same vein I have a TR-4C/RV-4C/MS-4 that I want to put back
on
> the air.My dad (KW5T)and I got it new back 1972 from Henry Radio
and
> it has been a great radio with minimal problems.After several years
> of non use I felt it was time to bring it back to life and enjoy it
> again.
>
> My question is this: My dad was a heavy smoker and the inside of
the
> radio has that brown nicotine coating.The front and cabinet cleaned
> up pretty good with 409 and a paper towel.Is there anything I can
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> that will remove the nicotine from the underside without harming
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> components, especially coil forms and plastics?I know there is at
> least one intermittent tube socket and I am contemplating using De-
Ox-
> It on the tube sockets and all switches and controls. I hope that
> will minimize or eliminate the intermittents.I'm sure the nicotine
> hasn't helped it any.Some of the tubes are microphonic if I
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> Is there a source for the PM-12 (or #12??) antenna fuse lamps?At
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> I also am concerned about the multisection electrolytic in the
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> caps in the radio?Should they be swapped out as well??
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> I don't have access to a variac when I power the radio up for the
> first time but the last time the radio was powered up (2002) it was
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>
> Anyone have a recommendation for a microphone for the radio?I have
> one that I use with my TS-520S but I'd like to have one dedicated
for
> use with the TR-4C.Originally an Elctro Voice "banana" microphone
was
> used but it went out while my dad had the radio.
>
> Thanks for your help and I look forward to your input.
>
> Paul WB0CJB
>

561. Re: TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-24 17:11:43 UTC
From: w5rkl
Topic: 559 Message: 561

A dishwasher cleaning of a TR4C, in my opinion, is not a good idea. There are too many can transformers plus the PTO that could become damaged. Of course, that's my opinion only.

As for the bulb fuse, you can try

www.1000bulbs.com

or

www.bulbdirect.com

The bulb is a 6.3vac 150ma bulb. If you can find a similiar bulb, it should work just fine.

As for nicotine under the chassis, you can use Deoxit on the switches but use it sparingly as Deoxit is quite flammable. Make sure you wait the required time, as stated on the can, before powering up the radio. I also suggest using canned air to blow out dust and dirt in the final cage especially in the PLATE and LOAD variable capacitors. The LOAD capacitor has plates that are much closer together so you will have to ensure the dust doesn't become lodged between the plates.

The top of the chassis can be cleaned with 409 and a tooth brush. A soft brush, one for a child, can clean up the chassis quite nicely. Have a couple of them. Heat one at the base of the brush just enough to bend the brush at a 90 degree angle. Let is cool and you'll have a brush that can be used in areas where a straight line brush handle won't fit.

Cotton swabs are also good to get into corners or along the edge of transformer cans and other areas where a brush won't fit.

Do not clean the PTO plastic gear with anything but very mild soap and water. Use of any solvents can permanently damage the plastic gear, causes them to swell. If the PTO gears are quite dirty, you will have to remove them and clean not only the outside surfaces but also the gear shaft races. A cotton swap with mild soap and water can get rid of the grease. When reassembling the gearing system, do not use petroleum based lubricant. These lubricants can damage the gears.

The link below can give you an idea of what to do and how to do it when cleaning the Drake plastic gearing system. The link shows the R4C PTO but it applies to all Drake PTO plastic gearing systems. You should look the PTO wiring over and draw the circuit on a

piece of paper with wire colors noted and where they go before removing the wiring and ultimately the PTO. I've done this with a TR4C I use to own that had a very stiff PTO gearing system. Once I completed the cleaning, the PTO tuned very smooth.

http://www.wb4hfn.com/DRAKE/DrakeArticles/PTO/Drake_PTO.htm

As for the AC-4R replacement board, it's pretty much self explanatory. Mike has put together a very nice PS board and if you follow the instruction to the letter, you should have no problem what so ever. Just make sure you check the wiring when you are finished. A wire in the wrong place can cause you some real problems or the TR4C won't work at all. The biggest problem with any of the AC3 and AC4 power supplies are the electrolytic capacitors. They are no longer available, the black outer covering over the metal capacitor. However, you can buy new modern low profile capacitors to replace the original ones. If you have noticed, Mike's board did just that except he included a PC board with all the components mounted on the PC board with very little, if any, components under the chassis. This is a good thing. I have an original AC4 that I have not yet installed Mike's board, it's still working very well with my T4XC. By the way, the AC-3 will also work with any TR3/4 or T4 series transceiver or transmitter. They're both the same and have the same voltage and Jones plug connections. Here's a link that shows pictures of the supply board.

http://www.wb4hfn.com/DRAKE/DrakeArticles/AC4-Upgrade/AC4_Upgrade.htm

If you have not yet done so, I highly recommend adding a cooling fan on the rear of the final cage. The finals get quite warm after normal sideband and CW transmissions. A small 12VDC cooling fan, usually available from Radio Shack, can be easily installed on the rear of the final cage without drilling any holes. Power can be obtained from an external 12VDC source OR from the TR4's filament supply through a half wave rectifier circuit. The power drawn from the filament supply to power the fan is not enough to be concerned about. I've been using my T4XC with this cooling arrangement now for 7 years and it really keeps the finals cool. The electrolytic capacitor used in the half wave rectifier determines the fans speed. I use an 8ufd at 25VDC and the fan turns at 75% speed with every little fan noise. A much larger capacitor, 10ufd or higher, will increase the speed of the fan and also increase the fan noise. I do not recommend using one of those computer CPU fans. They are too small and do not provide sufficient air flow. Some people say blowing air into the final cage causes it to become dirty a lot faster than if you draw air from the final cage. I find that it really doesn't matter since the final cage will need cleaning at least every 6 months anyway so why worry about blow into or drawing air from the final cage.

In closing, here's a link to a website that has quite a bit of Drake
information that may help in your restoration of your TR4C. You
will notice the links I provided earlier are also available at
this website.

http://www.wb4hfn.com/DRAKE/DrakePageHome.htm

Good luck and Happy Holidays.

73's
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Dave" <n0txj@...> wrote:
>
> Paul,
>
> The only part of your message I can respond to will throw you fora
> loop at first. As far as cleaning the unit take out the tubes, then
> run it through a dishwasher. That is right, a dishwasher. I had
> done that with several old Motorola tube type units, and some
> Heathkit HW 18s. Just make sure that EVERYTHING is 100% dried out
> before applying power after.
>
> Now, the caveat that I will add is that at the time I did this we
> were talking maybe 1960s vintage radios going through the dishwasher
> in the 1970s. Today there may be more concern with drying out caps,
> etc. We are still talking 1960s vintage radios, but now instead of
> ten years later, we are talking forty years later.
>
> One other thing. As far as that awful tobacco smell goes, if you
> have small enough parts put them in a plastic bag with a dryer sheet
> for a few days, it will take the tobacco smell away. Of course it
> does nothing for the looks.
>
> 73,
>
> Dave, N0TXJ
>
> --- In DrakeRadio@yahoogroups.com, "Paul" <lonelyone_64109@> wrote:
> >
> > I am in the process of installing an AC-4R power supply board into
> my
> > AC-4 supply.Wonder if anyone has had any problems or tips on this
> > board??
> >
> > In the same vein I have a TR-4C/RV-4C/MS-4 that I want to put back
> on
> > the air.My dad (KW5T)and I got it new back 1972 from Henry Radio
> and
> > it has been a great radio with minimal problems.After several years
> > of non use I felt it was time to bring it back to life and enjoy it

> > again.
> >
> > My question is this: My dad was a heavy smoker and the inside of
> the
> > radio has that brown nicotine coating.The front and cabinet cleaned
> > up pretty good with 409 and a paper towel.Is there anything I can
> use
> > that will remove the nicotine from the underside without harming
> the
> > components, especially coil forms and plastics?I know there is at
> > least one intermittent tube socket and I am contemplating using De-
> Ox-
> > It on the tube sockets and all switches and controls. I hope that
> > will minimize or eliminate the intermittents.I'm sure the nicotine
> > hasn't helped it any.Some of the tubes are microphonic if I
> remember
> > correctly so I will be having to replace them.I would like to
> > eventually have a full spare set of tubes including the finals for
> > the radio.
> >
> > Is there a source for the PM-12 (or #12??) antenna fuse lamps?At
> one
> > time Mouser carried them but I have not checked the internet for
> > another source for them.
> >
> > I also am concerned about the multisection electrolytic in the
> > radio.I may either need to replace it with several individual ones
> > assembled onto a small PCB.Any suggestions?What about the tubular
> > caps in the radio?Should they be swapped out as well??
> >
> > I don't have access to a variac when I power the radio up for the
> > first time but the last time the radio was powered up (2002) it was
> > working just fine though the output was intermittent, probably from
> > non use.An extensive "burn-in" is planned for the radio.
> >
> > Anyone have a recommendation for a microphone for the radio?I have
> > one that I use with my TS-520S but I'd like to have one dedicated
> for
> > use with the TR-4C.Originally an Elctro Voice "banana" microphone
> was
> > used but it went out while my dad had the radio.
> >
> > Thanks for your help and I look forward to your input.
> >
> > Paul WB0CJB
> >
>

562. Christmas wishes . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-24 21:29:38 UTC
From: dynamic881964
Topic: 562 Message: 562

A very Merry Christmas to all !

563. Merry Christmas !

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-25 16:06:37 UTC
From: Don
Topic: 563 Message: 563

and Thanks to everyone here, you make this a great goup, about a great brand of radio !

Don
AD7LL

[Non-text portions of this message have been removed]

564. DRAKE MODEL 583 Q-Xer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-26 00:04:04 UTC
From: Don
Topic: 564 Message: 564

found this on e-bay, item # 360007750092.
interesting, I haven't seen one before. anyone know how it is used?

Don

[Non-text portions of this message have been removed]

565. Re: DRAKE MODEL 583 Q-Xer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-26 12:53:25 UTC
From: Floyd Sense
Topic: 564 Message: 565

See this link: http://www.dproducts.be/drake_museum/q.htm

Q-Multipliers were quite common in the late 1950s, but I never saw
this one before. Everyone I know used the Heathkit model. Same
principle as the Q Multiplier sold for the Drake 2B in the 1960s.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> found this on e-bay, item # 360007750092.
> interesting, I haven't seen one before. anyone know how it is used?
>
> Don
>
> [Non-text portions of this message have been removed]
>

566. TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-26 23:21:53 UTC
From: Paul
Topic: 559 Message: 566

The power supply board is in and the rig has come to life once again.All tubes check fine and the receiver is doing good with the exception of an intermittent bandswitch.I can get RF output on 40, 20, 15, but none on 80 and 10.The 80 meter receive is flaky (intermittent) and no RF output on 80.I did spray the switches with a cleaner (NOT WD-40) and that seemed to do the most good.The rotary switch wafers have a black coating on them (I assume its oxidation) and wonder if the De-Ox-It on them would do away with the intermittents.40 meters began showing output today so thats why I think more and more its a dirty bandswitch.I'm also thinking of going through and tightening the hardware throughout the radio.While tinkering with it last night I noticed the receive would cut in and out at times while tapping on the chassis.Any suggestions?The longer the radio is on the better it works...

I don't think putting the radio through a dishwasher would be a wise idea although I have heard of people doing that.I'm not going to worry about the nicotine as its not a big deal.As long as the radio is working fine then I'm leaving it alone.

If the WA9TFT website is no longer there anyone know when I can get a set of the blue "filters" for the dial and meter?When my dad had it he cleaned them and ended up wiping off most of the blue on them.I think he has the one for the dial in backwards as the dial is blue when the radio is turned off.Wonder if anyone has taken a high intensity blue LED and used it to illuminate the dial and meter???The color of the LED is probably not like the blue filters that originally came on the radio.

For being 35 years old it still sounds good!!!!!Bet you won't get that kind of use from today's SMT riceboxes.

567. Re: TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-27 04:55:17 UTC
From: Don
Topic: 559 Message: 567

I've got a R-4C receiver that I ordered and put blue LED's in leiu of the regular bulbs and it looks like a million dollar radio. I got the tip from a fellow that has them installed in his TR-4. I purchased mine at http://superbrightleds.com and as I recall they were just a few dollars a piece. There more blue than blue-green, but still look nice.
don
KC0CLW

--- In DrakeRadio@yahoogroups.com, "Paul" <lonelyone_64109@...> wrote:
>
> The power supply board is in and the rig has come to life once
> again.All tubes check fine and the receiver is doing good with the
> exception of an intermittent bandswitch.I can get RF output on 40,
20,
> 15, but none on 80 and 10.The 80 meter receive is flaky
(intermittent)
> and no RF output on 80.I did spray the switches with a cleaner (NOT
WD-
> 40) and that seemed to do the most good.The rotary switch wafers
have a
> black coating on them (I assume its oxidation) and wonder if the De-
Ox-
> It on them would do away with the intermittents.40 meters began
showing
> output today so thats why I think more and more its a dirty
> bandswitch.I'm also thinking of going through and tightening the
> hardware throughout the radio.While tinkering with it last night I
> noticed the receive would cut in and out at times while tapping on
the
> chassis.Any suggestions?The longer the radio is on the better it
> works...
>
> I don't think putting the radio through a dishwasher would be a
wise
> idea although I have heard of people doing that.I'm not going to
worry
> about the nicotine as its not a big deal.As long as the radio is
> working fine then I'm leaving it alone.
>
> If the WA9TFT website is no longer there anyone know when I can get
a
> set of the blue "filters" for the dial and meter?When my dad had it
he
> cleaned them and ended up wiping off most of the blue on them.I

think
> he has the one for the dial in backwards as the dial is blue when
the
> radio is turned off.Wonder if anyone has taken a high intensity
blue
> LED and used it to illuminate the dial and meter???The color of the
LED
> is probably not like the blue filters that originally came on the
> radio.
>
> For being 35 years old it still sounds good!!!!!Bet you won't get
that
> kind of use from today's SMT riceboxes.
>

568. Re: TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-28 15:07:37 UTC
From: w5rkl
Topic: 559 Message: 568

Paul,

Here's a website that may help you with your TR-4C restoration.

http://www.wb4hfn.com/DRAKE/DrakeTechTips.htm

There is a link on this page under the "Restoration Techniques"
section, that shows, with pictures, how to clean those wafer
switches. I've used it and it works very well.

73's
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Paul" <lonelyone_64109@...> wrote:
>
> The power supply board is in and the rig has come to life once
> again.All tubes check fine and the receiver is doing good with the
> exception of an intermittent bandswitch.I can get RF output on 40, 20,
> 15, but none on 80 and 10.The 80 meter receive is flaky (intermittent)
> and no RF output on 80.I did spray the switches with a cleaner (NOT WD-
> 40) and that seemed to do the most good.The rotary switch wafers have a
> black coating on them (I assume its oxidation) and wonder if the De-Ox-
> It on them would do away with the intermittents.40 meters began showing
> output today so thats why I think more and more its a dirty
> bandswitch.I'm also thinking of going through and tightening the
> hardware throughout the radio.While tinkering with it last night I
> noticed the receive would cut in and out at times while tapping on the
> chassis.Any suggestions?The longer the radio is on the better it
> works...
>
> I don't think putting the radio through a dishwasher would be a wise
> idea although I have heard of people doing that.I'm not going to worry
> about the nicotine as its not a big deal.As long as the radio is
> working fine then I'm leaving it alone.
>
> If the WA9TFT website is no longer there anyone know when I can get a
> set of the blue "filters" for the dial and meter?When my dad had it he
> cleaned them and ended up wiping off most of the blue on them.I think
> he has the one for the dial in backwards as the dial is blue when the
> radio is turned off.Wonder if anyone has taken a high intensity blue
> LED and used it to illuminate the dial and meter???The color of the LED
> is probably not like the blue filters that originally came on the
> radio.
>
> For being 35 years old it still sounds good!!!!!Bet you won't get that

> kind of use from today's SMT riceboxes.
>

569. Re: TR-4C resurrection

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-28 15:11:03 UTC
From: w5rkl
Topic: 559 Message: 569

I forgot to mention about the blue filters. I bought some
blue plastic binder separators and cut them to fit. I used
this method in a TR-3 and TR-4C I use to have. I also used
it with my T-4XC and R-4C dials and meters and it works very
well.

73's
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Paul" <lonelyone_64109@...> wrote:
>
> The power supply board is in and the rig has come to life once
> again.All tubes check fine and the receiver is doing good with the
> exception of an intermittent bandswitch.I can get RF output on 40, 20,
> 15, but none on 80 and 10.The 80 meter receive is flaky (intermittent)
> and no RF output on 80.I did spray the switches with a cleaner (NOT WD-
> 40) and that seemed to do the most good.The rotary switch wafers have a
> black coating on them (I assume its oxidation) and wonder if the De-Ox-
> It on them would do away with the intermittents.40 meters began showing
> output today so thats why I think more and more its a dirty
> bandswitch.I'm also thinking of going through and tightening the
> hardware throughout the radio.While tinkering with it last night I
> noticed the receive would cut in and out at times while tapping on the
> chassis.Any suggestions?The longer the radio is on the better it
> works...
>
> I don't think putting the radio through a dishwasher would be a wise
> idea although I have heard of people doing that.I'm not going to worry
> about the nicotine as its not a big deal.As long as the radio is
> working fine then I'm leaving it alone.
>
> If the WA9TFT website is no longer there anyone know when I can get a
> set of the blue "filters" for the dial and meter?When my dad had it he
> cleaned them and ended up wiping off most of the blue on them.I think
> he has the one for the dial in backwards as the dial is blue when the
> radio is turned off.Wonder if anyone has taken a high intensity blue
> LED and used it to illuminate the dial and meter???The color of the LED
> is probably not like the blue filters that originally came on the
> radio.
>
> For being 35 years old it still sounds good!!!!!Bet you won't get that
> kind of use from today's SMT riceboxes.
>

570. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2007-12-30 22:09:12 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 570

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

571. O.T. - Plastar comments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-01 21:30:13 UTC
From: Don
Topic: 571 Message: 571

I recieved a new-to-me Palstar 1500cv for Christmas. So far, I really like it over my other tuners(dentron,nye, homebrew,ect.). And no, sad to say, I do not have a Drake tuner. It is made in the US, which is a Big plus as far as I'm concerned, and the quality seems pretty good.
Any one here using a palstar that can offer a comparison to the Drake tuners? or any comments on them and there use?
Thanks,
Don
AD7LL

[Non-text portions of this message have been removed]

572. A digital VFO for the TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-02 00:14:41 UTC
From: Floyd Sense
Topic: 572 Message: 572

While looking for a digital VFO that I could adapt to the TR7, I ran across one called the IQPro, designed by Craig Johnson (AA0ZZ) and sold as a kit by Kanga.US . Kanga is getting back in business after the disastrous flood of last August and will be selling the kits again soon.

Anyway, I was able to find a used IQPro and spent the past couple of weeks adapting it to use as an external VFO for the TR7. Results have been very good, and I can recommend it to anyone who's looking for a good technical project and a great VFO for the TR7.

In its supplied form, the IQPro can tune from 0 to 30 MHz, and adapting it for the TR7 involved modifying the PIC code to use the proper offset for each band so as to produce the correct 5 MHz output range while displaying the proper TR7 frequency on its LCD panel. The VFO has two separate VFOs and you can operate split or from either VFO when not in split mode. Power is taken from the RV7 connector on the rear of the TR7 and my documentation explains the other interface considerations.

If interested, take a look here - www.k8ac.net/DDSVFO.html . There's a link at the bottom of the page to a page of photos of my prototype. You may email me if you have any questions.

73, K8AC

573. Re: [DrakeRadio] A digital VFO for the TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-02 01:39:57 UTC
From: Don
Topic: 572 Message: 573

Nice Job !! I put the url to your page on the under the lists' homepage links section.
If you do not wish it posted there let me know I'll remove it.
Don
AD7LL

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, January 01, 2008 5:14 PM
Subject: [DrakeRadio] A digital VFO for the TR7

While looking for a digital VFO that I could adapt to the TR7, I ran across one called the IQPro, designed by Craig Johnson (AA0ZZ) and sold as a kit by Kanga.US . Kanga is getting back in business after the disastrous flood of last August and will be selling the kits again soon.

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If interested, take a look here - www.k8ac.net/DDSVFO.html . There's a link at the bottom of the page to a page of photos of my prototype. You may email me if you have any questions.

73, K8AC

[Non-text portions of this message have been removed]

574. Re: [DrakeRadio] A digital VFO for the TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-02 02:08:25 UTC
From: Floyd Sense
Topic: 572 Message: 574

No problem - thanks.

73, Floyd

Don wrote:
>
>
> Nice Job !! I put the url to your page on the under the lists' homepage
> links section.
> If you do not wish it posted there let me know I'll remove it.
> Don
> AD7LL
>
> ----- Original Message -----
> From: Floyd Sense
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Tuesday, January 01, 2008 5:14 PM
> Subject: [DrakeRadio] A digital VFO for the TR7
>
> While looking for a digital VFO that I could adapt to the TR7, I ran
> across one called the IQPro, designed by Craig Johnson (AA0ZZ) and
> sold as a kit by Kanga.US . Kanga is getting back in business after
> the disastrous flood of last August and will be selling the kits again
> soon.
>
> Anyway, I was able to find a used IQPro and spent the past couple of
> weeks adapting it to use as an external VFO for the TR7. Results have
> been very good, and I can recommend it to anyone who's looking for a
> good technical project and a great VFO for the TR7.
>
> In its supplied form, the IQPro can tune from 0 to 30 MHz, and
> adapting it for the TR7 involved modifying the PIC code to use the
> proper offset for each band so as to produce the correct 5 MHz output
> range while displaying the proper TR7 frequency on its LCD panel. The
> VFO has two separate VFOs and you can operate split or from either VFO
> when not in split mode. Power is taken from the RV7 connector on the
> rear of the TR7 and my documentation explains the other interface
> considerations.
>
> If interested, take a look here - www.k8ac.net/DDSVFO.html . There's
> a link at the bottom of the page to a page of photos of my prototype.
> You may email me if you have any questions.
>
> 73, K8AC
>

> [Non-text portions of this message have been removed]
>
>

575. Fw: Solar Cycle 24 Begins!!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-05 02:39:23 UTC
From: Don
Topic: 575 Message: 575

http://www.spaceweather.com/

----- Original Message -----
From: kn4lf@...
To: don frasher
Sent: Friday, January 04, 2008 3:42 PM
Subject: Solar Cycle 24 Begins!!!

Courtesy of www.spaceweather.com: SOLAR CYCLE 24: Solar physicists have been waiting for the appearance of a reversed-polarity sunspot to signal the start of the next solar cycle. The wait is over. A magnetically reversed, high-latitude sunspot emerged today: image. If you have a solar telescope, take a look at this important new active region. It marks the beginning of Solar Cycle 24 and the sun's slow ascent back to Solar Maximum.

[Non-text portions of this message have been removed]

576. C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-10 10:08:21 UTC
From: Victor Waddington
Topic: 576 Message: 576

Hello all.
As a newy I'm straight in for a bit of info, please.
I have a T-4XC and a R-4C. They both work great except that in the separate position I get the expected 100w out but if I go into transceive mode the most I can squeeze out is 50w. Is this normal.
I have the original interconnecting wiring loom and note that the handbook states you have to be sure to use the lead marked low capacitance from the Rx Inj outlet to Tx. None of my leads are marked low capacitance.
I feel that somehow these two are related.
Any info appreciated.
Vic
G4JSS

577. C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-10 10:33:58 UTC
From: Victor Waddington
Topic: 576 Message: 577

Hi
Sorry to intrude again. Have just re-examined the connecting loom and under some insulation tape which had been used in places to tidy the loom I found a couple of metal tags eached marked INJ. One was in the carrier Osc line and the other in the Inj line. So it seems that the interconnecting has been correct.
Still left with the power problem.
Vic

578. Re: C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-10 17:10:00 UTC
From: w5rkl
Topic: 576 Message: 578

I use RG-62 coax between my T4XC and my R4C
for all injection connections.

For the mute, anti-vox, and dial lighting, I use
simple stereo interconnecting cables. Antenna
connection between the T4XC and R4C I use RG-174
coax.

If you have the original cabling, I would replace
them.

BTW, do you have a cooling fan mounted on the rear of
your T4XC? If not, I highly recommend one. A simple
12VDC muffin fan powered by a half wave rectifier circuit
fed from the filament supply in the T4XC.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hello all.
> As a newy I'm straight in for a bit of info, please.
> I have a T-4XC and a R-4C. They both work great except that in the
> separate position I get the expected 100w out but if I go into
> transceive mode the most I can squeeze out is 50w. Is this normal.
> I have the original interconnecting wiring loom and note that the
> handbook states you have to be sure to use the lead marked low
> capacitance from the Rx Inj outlet to Tx. None of my leads are marked
> low capacitance.
> I feel that somehow these two are related.
> Any info appreciated.
> Vic
> G4JSS
>

579. Re: [DrakeRadio] C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-10 17:21:57 UTC
From: Garey Barrell
Topic: 576 Message: 579

Vic -

You have found the correct cables for INJ and CAR OSC.

You can try just peaking the INJ coils in the receiver and transmitter, but should do an alignment of the Antenna, RF and Injection in the R-4C, Section 5 - 12 of the manual, and the RF and Mixer Stages, Section 5-8 of the T-4XC manual, with the pair cabled together.

A full alignment of both wouldn't hurt, but the above will probably solve your problem. There will always be a slight difference in the Preselector or RF Tune settings between separate and transceive, but it should be minimal. The units were aligned individually at the factory because there was no way to know which Rx and Tx might be sold as a "pair", but aligning them while cabled together gives the best results.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi
> Sorry to intrude again. Have just re-examined the connecting loom and
> under some insulation tape which had been used in places to tidy the
> loom I found a couple of metal tags eached marked INJ. One was in the
> carrier Osc line and the other in the Inj line. So it seems that the
> interconnecting has been correct.
> Still left with the power problem.
> Vic
>
>
>

580. C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-10 20:05:57 UTC
From: Victor Waddington
Topic: 576 Message: 580

Hi Mike/Gary
Thanks for info.
Going to adopt both suggestions and will let you know how we go on.
Tks agn.

Vic G4JSS

581. TR-4C version

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 00:00:09 UTC
From: n0va1994
Topic: 581 Message: 581

For many years I have enjoyed listening to my collection of broadcast receivers from the 1920's-30's. The warm, rad glow of the tubes and the rich tone of the speakers coming from real wood cabinets is quite cheery. I decided to add another dimension of enjoyment to my ham radio hobby and so a TR-4C is now on its way to my house.

I've been searching the group posts, files, links and database for build information based on serial number but so far no luck. I did run across the following 12/2007 post by K4OAH:

"There were 12 versions of the TR-4/C transceiver. Yours is what I call version 5, which was the second of the TR-4B models. This version has the twin eight-pole filters..."

So apparently the information is out there. Would anyone be able to tell me what to expect from a stock TR-4C bearing S/N 40249? Seems there are versions with different components.

Ken - N0VA

582. Re: WTB R4B R4C TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 08:44:21 UTC
From: elan paim
Topic: 581 Message: 582

looking for r4b or r4c in good working order UK only please
please send picture and price
MANY THANKS

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

583. Re: [DrakeRadio] TR-4C version

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 16:04:30 UTC
From: Garey Barrell
Topic: 581 Message: 583

Ken -

Well, the information is not quite "out there", yet. :-)

I've been working for quite a while on a Service Supplement CD for the TR-4/C series, which should be out very shortly. It's been quite a job, thanks in part to just how much is jammed into that box, and the 12 different versions over almost 13 years of production. The correct schematic for your unit would be 4077538800. The CD will have all twelve schematics.

Anyway, the unit you mention would be a Version 11, just about the last of the TR-4C model, and is the one the CD color photos are based on. The remaining 5,000 manufactured were almost all TR-4Cw and/or TR-4CwRIT versions.

There are two additional resistors in the "last" version, one of which is to accommodate the "new" TR relay, and about a dozen capacitors, the majority of which are inside the PTO to enable the RIT function. So really not any significant differences outside of the new CW and RIT features. The design was pretty much optimized by then! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

n0va1994 wrote:
> For many years I have enjoyed listening to my collection of broadcast
> receivers from the 1920's-30's. The warm, rad glow of the tubes and
> the rich tone of the speakers coming from real wood cabinets is quite
> cheery. I decided to add another dimension of enjoyment to my ham
> radio hobby and so a TR-4C is now on its way to my house.
>
> I've been searching the group posts, files, links and database for
> build information based on serial number but so far no luck. I did run
> across the following 12/2007 post by K4OAH:
>
> "There were 12 versions of the TR-4/C transceiver. Yours is what I call
> version 5, which was the second of the TR-4B models. This version has
> the twin eight-pole filters..."
>
> So apparently the information is out there. Would anyone be able to
> tell me what to expect from a stock TR-4C bearing S/N 40249? Seems
> there are versions with different components.
>

> Ken - N0VA
>
>

584. Re: TR-4C version

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 18:09:20 UTC
From: n0va1994
Topic: 581 Message: 584

Garey: Thank you! That is the kind of information I was hoping would be available. Now, I do not know the good, the bad or the ugly of this version 11 TR4/C.

Using some serial number data run across last night my current best estimate of the mfg. date for this unit is sometime in late 1975 although the original owner from whom I purchased it said he bought it new about 1978. He also said this unit does not have the optional noise blanker installed. Is the noise blanker option something I should be trying to locate?

This group should be an interesting addition to enjoyment of these older tube-based Drake amateur radios.

Ken - N0VA

585. Re: [DrakeRadio] Re: TR-4C version

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 18:30:09 UTC
From: Garey Barrell
Topic: 581 Message: 585

Ken -

Essentially you have the best of the TR-4C series, short only of the CW filter and RIT features. The block diagram only had one minor change over all twelve versions, the addition of an audio preamp stage in version 7 in 1970. There were tube type changes, and circuit changes made to cover technology improvements over the years, but the basic design was just refined as they went along.

Your date estimate is correct. This is about the time the Cw version became available, which could have caused the basic version to sit on the dealers shelves for a while. Also "normal" people tend to be off a year or so in their estimates of when something happened 30 years ago! :-)

The noise blanker is a 34-PNB, and is very rare to find by itself. They sell for about $200 now, when found, but are mostly a "collectible" unless you intend to operate mobile or live near a highway. The blanker does an outstanding job on ignition noise, extremely short, high intensity pulses, but doesn't do much for power line noise. Only you can decide if it's worthwhile for you!

This is a good group, although the "drakelist" is more active. Found at <http://www.zerobeat.net/drakelist/>

Welcome to the group(s)!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

n0va1994 wrote:
> Garey: Thank you! That is the kind of information I was hoping would
> be available. Now, I do not know the good, the bad or the ugly of this
> version 11 TR4/C.
>
> Using some serial number data run across last night my current best
> estimate of the mfg. date for this unit is sometime in late 1975
> although the original owner from whom I purchased it said he bought it
> new about 1978. He also said this unit does not have the optional
> noise blanker installed. Is the noise blanker option something I
> should be trying to locate?
>
> This group should be an interesting addition to enjoyment of these
> older tube-based Drake amateur radios.
>

> Ken - N0VA
>
>
>

586. wtb 2b 2c rx vrsion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 19:08:01 UTC
From: elan paim
Topic: 586 Message: 586

hi
i am looking for this nice receiver 2B AND 2C in good working order
please only from UK
THANK YOU and happy new year to all

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

587. tube in the uk

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 19:15:16 UTC
From: elan paim
Topic: 587 Message: 587

Hello
is any one from UK know where i can buy this tube ?
12BZ6
12BA6
6HS6
6KZ8
12BE6
or any other tube for the drake
many thanks

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

588. Re: [DrakeRadio] tube in the uk

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 19:53:20 UTC
From: g4jss@tiscali.co.uk
Topic: 587 Message: 588

Elan

Try Jim Fish at Wilson valves. Full catalogue on www.flashbacksales.co.uk

Did a complete valve change for my R-4C with him. If you don't get through on that link just search Wilson valves, Huddersfield.

Vic

----Original Message----
From: elanpaim@...
Date: 12/01/2008 19:15
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] tube in the uk

Hello
is any one from UK know where i can buy this tube ?
12BZ6
12BA6
6HS6
6KZ8
12BE6
or any other tube for the drake
many thanks

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

589. valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-12 20:02:58 UTC
From: Victor Waddington
Topic: 589 Message: 589

Elan
Sorry, gave you the wrong link. Just search Wilson valves. The owner is Jim Fish - a very nice chap who has forgotten more about valves than I ever knew.

Vic

590. Re: [DrakeRadio] tube in the uk

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 01:02:26 UTC
From: elan paim
Topic: 587 Message: 590

Hi Vic
many thanks for this info
i will look for this info .
good weekend now

"g4jss@..." <g4jss@...> wrote:

Elan

Try Jim Fish at Wilson valves. Full catalogue on www.flashbacksales.co.uk

Did a complete valve change for my R-4C with him. If you don't get through on that link just search Wilson valves, Huddersfield.

Vic

----Original Message----
From: elanpaim@...
Date: 12/01/2008 19:15
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] tube in the uk

Hello
is any one from UK know where i can buy this tube ?
12BZ6
12BA6
6HS6
6KZ8
12BE6
or any other tube for the drake
many thanks

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

VY73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

591. WTB: R-4C Tuning Knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 14:19:18 UTC
From: ve6drw
Topic: 591 Message: 591

I have a R-4C with a broken tuning knob that I need to replace. The metal insert is fine, as is the aluminum ring - just the black plastic is in pieces. Can anyone help?

Thanks

Dave White
VE6DRW

592. Re: [DrakeRadio] WTB: R-4C Tuning Knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 15:18:54 UTC
From: Garey Barrell
Topic: 591 Message: 592

Dave -

I have a new "aftermarket" knob that is almost identical to the R-4C knob. Actually it IS identical, except the hole for the spinner button is NOT drilled, (although the internal molding IS there,) and of course the bright insert is not notched for the spinner. Since you have the button and the bright, it would be a simple matter to pop out the old bright, drill the boss, and reassemble.

I think I paid about $7-8 for these some years ago, so that would be fine if you can't find an original.

By the way, the TR-7 knob "looks" identical, but it is not as thick, and so won't compress the rubber clutch on the C-Line units.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

ve6drw wrote:
> I have a R-4C with a broken tuning knob that I need to replace. The
> metal insert is fine, as is the aluminum ring - just the black plastic
> is in pieces. Can anyone help?
>
> Thanks
>
> Dave White
> VE6DRW
>
>
>

593. Slightly OT: terrible experience with Dennis Gazak, eBay seller who specializes in ham radio equipment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 15:44:24 UTC
From: Steve Eisenberg
Topic: 593 Message: 593

Hi, All:

This guy sells under "pennradio" and possibly a few other names, and one might want be extremely careful before choosing to deal with him. I won't bore the group with the sordid details, but Gazak, who spells his name "Gazek" for eBay purposes, should be avoided at all costs, in my opinion. Details upon request, and/or you can Google him.

Steve
WA1ZFY

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

594. R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 17:09:20 UTC
From: Victor Waddington
Topic: 594 Message: 594

Hi
Here again - sorry to bore or burden you but Drakes are hard to come by in UK and spares even worse.
I'm looking for a couple of the rubber doughnuts that fit on the tuning shaft behind the knob and ali plate for calibration purposes.
Seems simple but getting hold of rubber piping to modify and replace the parts is nigh on impossible - everything is plastic these days.
Tried every hardware store in the locality but zilch - same result from scrapyards - everything is damned plastic.

Vic

595. Re: [DrakeRadio] R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 17:14:11 UTC
From: K5VSE
Topic: 594 Message: 595

If you are talking about the rubber part behind the tuning knob, I used rubber fuel line available from your local auto parts store.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

596. Re: [DrakeRadio] R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 21:39:30 UTC
From: Garey Barrell
Topic: 594 Message: 596

Vic -

Most hardware stores carry polyethelene (clear plastic) tubing in many sizes. This will work pretty well. The original on the 4 LIne was a fairly hard gray rubber that hardened with age. Often this can be salvaged by sanding the ends to roughen them up. The 7 Line used rubber surgical tubing, (sort of a translucent amber color that becomes opaque with age, but retains its flexibility. Some have used rubber automotive fuel line tubing, (with the fabric reinforcement) which works OK.

It's really not all that critical, all it has to do is be very slightly compressible to act as a slip clutch between the back of the main tuning knob and the dial disk center hub. It only has to slip for adjustment, which shouldn't happen that often. Just about anything that is about 1/4" i.d. and about 1/2" o.d. will work just fine, as long as it is close to 1/2" long. Actually the id and od are not all that critical as the only friction needed is on the ends, so even a plastic tubing will work well if the ends are roughed up a little.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi
> Here again - sorry to bore or burden you but Drakes are hard to come by
> in UK and spares even worse.
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> shaft behind the knob and ali plate for calibration purposes.
> Seems simple but getting hold of rubber piping to modify and replace
> the parts is nigh on impossible - everything is plastic these days.
> Tried every hardware store in the locality but zilch - same result from
> scrapyards - everything is damned plastic.
>
> Vic
>
>

597. Re: R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 22:35:03 UTC
From: w5rkl
Topic: 594 Message: 597

Try the link below:

http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/BushingRepair.htm

I repaired my R4C using this link and it works very well.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Vic -
>
> Most hardware stores carry polyethelene (clear plastic) tubing in many
> sizes. This will work pretty well. The original on the 4 LIne was a
> fairly hard gray rubber that hardened with age. Often this can be
> salvaged by sanding the ends to roughen them up. The 7 Line used
> rubber surgical tubing, (sort of a translucent amber color that becomes
> opaque with age, but retains its flexibility. Some have used rubber
> automotive fuel line tubing, (with the fabric reinforcement) which
works OK.
>
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> compressible to act as a slip clutch between the back of the main
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> knob and the dial disk center hub. It only has to slip for adjustment,
> which shouldn't happen that often. Just about anything that is about
> 1/4" i.d. and about 1/2" o.d. will work just fine, as long as it is
> close to 1/2" long. Actually the id and od are not all that
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> the only friction needed is on the ends, so even a plastic tubing will
> work well if the ends are roughed up a little.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Victor Waddington wrote:
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> > Here again - sorry to bore or burden you but Drakes are hard to
come by

> > in UK and spares even worse.
> > I'm looking for a couple of the rubber doughnuts that fit on the
tuning
> > shaft behind the knob and ali plate for calibration purposes.
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> > Tried every hardware store in the locality but zilch - same result
from
> > scrapyards - everything is damned plastic.
> >
> > Vic
> >
> >
>

598. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-13 23:58:36 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 598

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

599. Drake TR5 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-15 00:41:31 UTC
From: Jim Harris
Topic: 599 Message: 599

I just dug out my old Drake TR5 and have found that the transmitter output power is way low. I cannot find a manual for the radio and would like to repair it. I have been unable to find a copy of any kind of a manual on the Internet to download. I wonder if anyone on here would have something, even a schematic, or know where I can get anything for it in the way of a manual? More than happy to pay for photo copying and shipping. I would really like to repair this radio. Any help is appreciated.

Thanks,

73, Jim VE1RB

600. Re: [DrakeRadio] Drake TR5 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-15 00:58:12 UTC
From: Don
Topic: 599 Message: 600

http://www.wb4hfn.com/DRAKE/DrakeManuals/TR5/Manual_TR5.htm

should be a good starting point for you.

Don
AD7LL

----- Original Message -----
From: Jim Harris
To: DrakeRadio@yahoogroups.com
Sent: Monday, January 14, 2008 5:41 PM
Subject: [DrakeRadio] Drake TR5 help

I just dug out my old Drake TR5 and have found that the transmitter output power is way low. I cannot find a manual for the radio and would like to repair it. I have been unable to find a copy of any kind of a manual on the Internet to download. I wonder if anyone on here would have something, even a schematic, or know where I can get anything for it in the way of a manual? More than happy to pay for photo copying and shipping. I would really like to repair this radio. Any help is appreciated.

Thanks,

73, Jim VE1RB

[Non-text portions of this message have been removed]

602. Drake TR7 and Computer??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-15 17:29:16 UTC
From: Daniel
Topic: 602 Message: 602

Hi folks

Is there any idea/solution to connect a TR7 with a computer for a logging programm (Frequency control etc)??

73 de Daniel, HB9DDS

603. RE: [DrakeRadio] Drake TR7 and Computer??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-15 17:37:46 UTC
From: Steve Finch
Topic: 602 Message: 603

I have a TR7. The TR7 pre-dates the computer processor control rigs. Not having a central processor, in order to control frequency, you would have to build a complicated interface using the DR7 connections. I don't know of any other way to control frequency from a computer and I don't believe you would be satisfied with the limited benefit.

Steve

AIW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Daniel
Sent: Tuesday, January 15, 2008 10:29 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake TR7 and Computer??

Hi folks

Is there any idea/solution to connect a TR7 with a computer for a logging programm
(Frequency control etc)??

73 de Daniel, HB9DDS

[Non-text portions of this message have been removed]

604. Re: [DrakeRadio] Drake TR7 and Computer??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-15 19:47:55 UTC
From: Floyd Sense
Topic: 602 Message: 604

I recently adapted the IQPro DDS VFO for use with the TR7. The next thing I'm going to add to that is a PC interface using the Icom CIV protocol. It will simply plug into an Icom CIV port on whatever type of converter you're using. Sorry, but can't say when I might have that available. When it is, you'll still have to build the VFO, but the software for it will be free. The Woodbox radio people in Italy had offered a PC interface on the DDS VFO they were selling for the TR7, but that seems to have been discontinued some time ago.

73, Floyd - K8AC

Daniel wrote:
>
>
> Hi folks
>
> Is there any idea/solution to connect a TR7 with a computer for a
> logging programm
> (Frequency control etc)??
>
> 73 de Daniel, HB9DDS
>
>

605. Need spring that connects the "load" shaft for a TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 02:30:09 UTC
From: Jose Varon
Topic: 605 Message: 605

Hello to the group:
I was wondering if someone can recommend where to find (purchase) the spring that connects the shaft of the "load" knob. I have made one from strapping material but it does not have sufficient "springing" qualities as the original.

Thanks

73's

Jose WB1FQW

606. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 17:23:46 UTC
From: Victor Waddington
Topic: 606 Message: 606

HI
Got my Tx working on both separate and transceive with 100w out.
Not much help but I don't know how. Disconnected all the connecting leads, cleaned switches and valve pins and phono jacks and put it back together. Hey presto working as it should. At a guess I would say it was the separate/transceive switch contacts that were causing the problem - which doesn't make a lot of sense!
By the way, if anyone has a MS-4 speaker cabinet they want to part with I'd be pleased to here from you. Can pay via Paypal.

73
Vic

607. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 17:59:35 UTC
From: K5VSE
Topic: 606 Message: 607

I've got a spare MS-4. I have re-painted it, installed a new name plate and it works as it should. No scratches etc. Make me an offer I can't refuse and see what we can do.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

608. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 18:00:01 UTC
From: w5rkl
Topic: 606 Message: 608

Congratulations on fixing the problem.

The TRANSCEIVE switch on the T4XC controls the injection signals
between the R4C and the T4XC. If corrosion has built up on the
TRANSCEIVE switch contacts and the RCA jacks, it stands to reason
the injection signals will be affected which will ultimately affect
the T4XC's output.

This is a common problem with vintage gear which if that's the
only problem, can usually be fixed by cleaning the contacts.

Having said that, alignment along with the interconnecting
cables can also play a role as well.

Again, congratulations on fixing the problem.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> HI
> Got my Tx working on both separate and transceive with 100w out.
> Not much help but I don't know how. Disconnected all the connecting
> leads, cleaned switches and valve pins and phono jacks and put it back
> together. Hey presto working as it should. At a guess I would say it
> was the separate/transceive switch contacts that were causing the
> problem - which doesn't make a lot of sense!
> By the way, if anyone has a MS-4 speaker cabinet they want to part with
> I'd be pleased to here from you. Can pay via Paypal.
>
> 73
> Vic
>

609. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 18:02:47 UTC
From: K5VSE
Topic: 606 Message: 609

I forgot, if you want a couple of pictures, I can send them.

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

610. RE: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-17 18:58:13 UTC
From: Joel Levy
Topic: 606 Message: 610

" In God We Trust, All Others Pay Cash"- Jean Shepherd- SK - ex K2ORS

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of K5VSE
Sent: Thursday, January 17, 2008 1:03 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] T-4XC

I forgot, if you want a couple of pictures, I can send them.

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

611. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-18 08:49:39 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 611

Hi Mike

Re speaker:

From a practical and shipping point of view I don't need the actual speaker - just the case.

How close is the repaint to the original Drake colours?

Re an offer - there you have me. I have never seen one for sale in UK so haven't a clue on pricing. If you could give me some idea including shipping it would help.

Cheers

Vic

----Original Message----
From: mdewey@...
Date: 17/01/2008 17:59
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

I've got a spare MS-4. I have re-painted it, installed a new name plate and
it works as it should. No scratches etc. Make me an offer I can't refuse and
see what we can do.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

612. WTB : 2B 2C AND B LINE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-18 17:40:39 UTC
From: elan paim
Topic: 612 Message: 612

Hi
i am looking for 2B 2C and B line in good working order
only from UK please
many thanks .

[Non-text portions of this message have been removed]

613. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-18 18:04:19 UTC
From: K5VSE
Topic: 606 Message: 613

Hi Vic,

I did not realize that you were in the UK. Postage would probably be more
than the MS-4 is worth. I might be able to check in the next day or so when
I drive to town and can stop by the post office.

I will get back to you whenever I get a cost.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

614. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-19 15:42:48 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 614

Hi Mike

Yep I do understand that. But this side of the pond you just never see one so it seems I'm going to have to fish on the other side.

Will appreciate you keeping me informed.

73

Vic - G4JSS

----Original Message----
From: mdewey@...
Date: 18/01/2008 18:04
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Hi Vic,

I did not realize that you were in the UK. Postage would probably be more
than the MS-4 is worth. I might be able to check in the next day or so when
I drive to town and can stop by the post office.

I will get back to you whenever I get a cost.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
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[Non-text portions of this message have been removed]

_____
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[Non-text portions of this message have been removed]

615. RE: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-20 23:06:57 UTC
From: Warren Brandt
Topic: 606 Message: 615

I need a good MS-4, should this deal fall through.

Thanks,
Warren - KC0U.

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]On
Behalf Of K5VSE
Sent: Friday, January 18, 2008 12:04 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] T-4XC

Hi Vic,

I did not realize that you were in the UK. Postage would probably be more
than the MS-4 is worth. I might be able to check in the next day or so
when
I drive to town and can stop by the post office.

I will get back to you whenever I get a cost.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.7/1233 - Release Date: 1/19/2008
6:37 PM

[Non-text portions of this message have been removed]

616. TR-4C not for QRP is it

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-20 23:51:24 UTC
From: n0va1994
Topic: 616 Message: 616

Well, reading a PDF manual for my newly arrived TR-4C I see that it is possible to operate this transceiver like a "Novice" at 75W after a bias adjustment. Obviously that is not QRP.

I run all my other (solid state) stuff at low power. I think the most I've run since we moved to this house in 1995 is 60W out of my Ten Tec Model 544 Triton, and that was not for long. Usually run around 5 watts, more or less.

Is it a bad idea to stack the MS-4/AC-4 on top of the TR-4C? There's a lot of heat under that speaker cabinet. I did put a quiet 3" fan next to the PA cage. I haven't run a tube rig since my Galaxy 5 in 1979.

Ken - N0VA

617. Re: TR-4C not for QRP is it

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-21 03:07:11 UTC
From: w5rkl
Topic: 616 Message: 617

You should be able to run the TR4C at QRP output levels quite easily. If your TR4C's front panel GAIN control does not reduce the output down to nothing on CW then more than likely the carrier null needs to be adjusted. I ran into this with my T4XC on CW. After performing the carrier balance adjustment outlined in the manual the front panel GAIN control turned completely counter clockwise reduces output to zero.

A fan can be easily mounted on the rear of the final amplifier cage without drilling any additional holes. The fan can be powered by a simple half wave rectifier using a 22ufd 25vdc electrolytic capacitor and a 1N4001 diode. The 22ufd will run the fan at a faster speed to move more air for the 3 6BJ6's.

Just a few ideas I've used on my current and previously owned Drake gear.

73's
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "n0va1994" <n0va@...> wrote:
>
> Well, reading a PDF manual for my newly arrived TR-4C I see that it is
> possible to operate this transceiver like a "Novice" at 75W after a
> bias adjustment. Obviously that is not QRP.
>
> I run all my other (solid state) stuff at low power. I think the most
> I've run since we moved to this house in 1995 is 60W out of my
> Ten Tec Model 544 Triton, and that was not for long. Usually run
> around 5 watts, more or less.
>
> Is it a bad idea to stack the MS-4/AC-4 on top of the TR-4C? There's a
> lot of heat under that speaker cabinet. I did put a quiet 3" fan next
> to the PA cage. I haven't run a tube rig since my Galaxy 5 in 1979.
>
> Ken - N0VA
>

618. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 16:02:46 UTC
From: K5VSE
Topic: 606 Message: 618

I saved your email Warren.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

619. Improving performance?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 16:19:26 UTC
From: Victor Waddington
Topic: 619 Message: 619

Hi All
Don't know what I am talking about so take it from there\\\\\\!
A chap I was talking to said I could much improve my R-4C with a
Sherman (or was it Sherwood) conversion. Never heard of it having
only had a Drake setup for a few months.
Can anyone put me wise on that, please,
Vic - G4JSS

620. Re: [DrakeRadio] Improving performance?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 16:47:10 UTC
From: Floyd Sense
Topic: 619 Message: 620

Check out the info at this link: http://www.sherweng.com/ham.html

You can spend a ton of money on the Sherwood mods, but I've had them all
in the past and thought they were worth it.

73, Floyd - K8AC

Victor Waddington wrote:
>
>
> Hi All
> Don't know what I am talking about so take it from there\\\\\\!
> A chap I was talking to said I could much improve my R-4C with a
> Sherman (or was it Sherwood) conversion. Never heard of it having
> only had a Drake setup for a few months.
> Can anyone put me wise on that, please,
> Vic - G4JSS
>
>

621. [DrakeRadio] MN-2000

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 17:08:40 UTC
From: John Page
Topic: 606 Message: 621

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: k4kwm@hotmail.com

The other day my MN-2000 refused to tune my 135 ft dipole. The tuner goes into a balun made of 25 ft of RG8 on a 5inch piece of PVC. Long story short. It turned out to be the 88uufd and the 100uufd loading caps. They were shot. Boy are those thing hard to remove. I noticed that they only had a 600V rating. The replacement caps I used have a 2500V rating.

Has anyone else had this problem? And did you use the same type of cap for a replacement are something more modern?

By the way, the complete station is a C-line and L-4.

Thanks in advance, John

I saved your email Warren.

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division

SBE/Linear Systems, Watsonville, CA

Pupule384 On 3922 Nightly

WEB Site: http://members.tripod.com/~sjsharks/index.html

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[Non-text portions of this message have been removed]

Climb to the top of the charts! Play the word scramble challenge with star power.
http://club.live.com/star_shuffle.aspx?icid=starshuffle_wlmailtextlink_jan

622. Re: [DrakeRadio] Improving performance?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 17:22:27 UTC
From: g4jss@tiscali.co.uk
Topic: 619 Message: 622

Hi Floyd

Hells bells! Just looked at that link and took a deep breath when I saw the prices.

Guess I'll let things stay as they are.

Thanks for info.

Vic

----Original Message----
From: floyd@...
Date: 22/01/2008 16:47
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Improving performance?

Check out the info at this link: http://www.sherweng.com/ham.html

You can spend a ton of money on the Sherwood mods, but I've had them all
in the past and thought they were worth it.

73, Floyd - K8AC

Victor Waddington wrote:
>
>
> Hi All
> Don't know what I am talking about so take it from there\\\\\\!
> A chap I was talking to said I could much improve my R-4C with a
> Sherman (or was it Sherwood) conversion. Never heard of it having
> only had a Drake setup for a few months.
> Can anyone put me wise on that, please,
> Vic - G4JSS
>
>

_____
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[Non-text portions of this message have been removed]

623. Re: [DrakeRadio] Improving performance?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 18:11:51 UTC
From: Garey Barrell
Topic: 619 Message: 623

Vic -

The Sherwood mods are very well thought out, engineered, and do a lot for the R-4C.

However..... Unless you are into low band contesting, (where you have ten 60 over S-9 signals at each kHz of the dial,) and you need to pick out an S-3 signal in the middle, you'll likely never hear the difference. For typical day-to-day operation on our relatively empty bands, they won't really do much for you. What they do very well is allow you to hear an S-3 signal between two 60 over 9 signals a couple of kHz apart.

The rest of the "improved" boards all address perceived problems, that most likely you are not even aware of and wouldn't notice unless someone pointed them out to you.

Replacing C100 with a 0.68 uF tantalum cap will mellow what some consider "hissy" audio, and costs a buck or two.

The Sherwood mods represent a LOT of money to invest in a 40 year old tube based receiver. If you NEED the signal slicing capability, it will rival just about anything on the market today, and beat quite a few. The Receiver Test Data chart on their site is very interesting, but it is designed to highlight the improvements provided by their products. If you discount the signal slicing capabilities (the two kHz spacing columns) the Stock R-4C moves up considerably.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi All
> Don't know what I am talking about so take it from there\\\\\\!
> A chap I was talking to said I could much improve my R-4C with a
> Sherman (or was it Sherwood) conversion. Never heard of it having
> only had a Drake setup for a few months.
> Can anyone put me wise on that, please,
> Vic - G4JSS
>

624. RE: [DrakeRadio] Improving performance?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 18:19:58 UTC
From: James Chaggaris
Topic: 619 Message: 624

Victor:

As stated before, the Sherwood mods do wonders to the performance of the R4C. I had all the mods performed (except the filter mod) on one of my R4C's and it made a world of difference. An R4C with all the Sherwood mods easily performs as good if not better than the current crop of radios. However, it comes at a price. If you were to send the R4C off to Sherwood to have the mods (includeding the filter mod) done, it would cost about $1,400USD! Not including freight. OUCH!

73,,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 110
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Victor Waddington
Sent: Tuesday, January 22, 2008 10:19 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Improving performance?

Hi All
Don't know what I am talking about so take it from there\\\\\\!
A chap I was talking to said I could much improve my R-4C with a Sherman (or was it Sherwood) conversion. Never heard of it having only had a Drake setup for a few months.
Can anyone put me wise on that, please,
Vic - G4JSS

[Non-text portions of this message have been removed]

625. TR7A price go for ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 20:01:38 UTC
From: elan paim
Topic: 625 Message: 625

Hi
is any one know what the price for the TR7A go for ?
many thanks

[Non-text portions of this message have been removed]

626. R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 20:18:49 UTC
From: Victor Waddington
Topic: 594 Message: 626

Thanks to all for wealth of info on conversion etc.
When I read through the Sherwood list of mods (and prices)the thought crossed my mind," how much of this would I really notice? "
Being 100% CW, not into contests and never below 40m I don't think there would be much perceivable difference.
I totally agree about the tuning rate but I think I can live with that.
I do like the idea of changing C100 to mellow the audoi hiss.
Thanks again.

Vic

627. Re: [DrakeRadio] TR7A price go for ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-22 20:20:03 UTC
From: Steve Matda
Topic: 625 Message: 627

Lately on eBay it looks about $700 and up for the 7A
and PS.

--- elan paim <elanpaim@...> wrote:

> Hi
> is any one know what the price for the TR7A go for
> ?
> many thanks
>
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

628. Re: R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 03:50:16 UTC
From: w5rkl
Topic: 594 Message: 628

First, the R4C is an excellent ham band receiver.

However, having said that, I believe there are some areas in
a stock R4C that need improvement. First, the original power
supply. With a stock R4C powered on for 30 minutes or more,
place your hand on the right rear side. The heat you feel
is coming from the original power supply and final audio
amplifier. The original R4C power supply and final audio
amplifier produce the majority of heat in a stock R4C.
The Sherwood power supply and final amplifier replacements
completely eliminate that heat. I also recommend
picking up the Sherwood power supply filter board. The original
capacitors are no longer available. For the purist, this may
not be a good thing as it requires removing both original
filter capacitors and mounting the board on top of the chassis
in the spot occupied by the original capacitors.

If improved selectivity is desired, replace the 1st and 2nd IF
filters together. I also recommend a 6Khz AM filter in place of
the resistor in the AM filter socket. That resistor is the pits!

The bottom line is, if I had a stock R4C and was even remotely
considering a mod or two, I would at least install the power
supply and final audio amplifier mods. If nothing more than
to reduce the huge amount of heat the original circuits generate!
I don't regret any of the mods I installed. The only regret I have
is I didn't install the 2nd IF filter.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Thanks to all for wealth of info on conversion etc.
> When I read through the Sherwood list of mods (and prices)the thought
> crossed my mind," how much of this would I really notice? "
> Being 100% CW, not into contests and never below 40m I don't think
> there would be much perceivable difference.
> I totally agree about the tuning rate but I think I can live with that.
> I do like the idea of changing C100 to mellow the audoi hiss.
> Thanks again.
>
> Vic
>

629. Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 09:02:33 UTC
From: Frederick Folsom
Topic: 629 Message: 629

Hi All I hope I'm not repeating someone else?
I had to rebuild my AC (MS-4) power supply when it went out.
I did replace All Tubes, But now all I have is 80 Watts out,
Before I had 300-325 Watts, Did adjustments and re-did Adjustments.
Still Low Power out any help??

Thanks.

630. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 13:42:28 UTC
From: w5rkl
Topic: 629 Message: 630

I believe you are mistaking the TR4's power rating. The TR4
is not capable of producing 300 watts "OUTPUT". The TR4 is
rated at 300 watts PEP input, 260 watts DC input on CW
and controlled carrier screen modulation AM.

Have you performed a voltage check of the TR4 as outlined
in the TR4's manual?

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Frederick Folsom" <kd4ysg@...> wrote:
>
> Hi All I hope I'm not repeating someone else?
> I had to rebuild my AC (MS-4) power supply when it went out.
> I did replace All Tubes, But now all I have is 80 Watts out,
> Before I had 300-325 Watts, Did adjustments and re-did Adjustments.
> Still Low Power out any help??
>
> Thanks.
>

631. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 13:48:39 UTC
From: w5rkl
Topic: 629 Message: 631

I forgot to ask a few additional questions.
You say you are only getting 80 watts output.
Is this 80 watt output reading obtained in TUNE
position or during voice peaks in sideband?
What type of RF meter are you using to determine
the output power? What scale are you reading the
output power from?

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> I believe you are mistaking the TR4's power rating. The TR4
> is not capable of producing 300 watts "OUTPUT". The TR4 is
> rated at 300 watts PEP input, 260 watts DC input on CW
> and controlled carrier screen modulation AM.
>
> Have you performed a voltage check of the TR4 as outlined
> in the TR4's manual?
>
>
>
> 73
> Mike
> W5RKL
>
>
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, "Frederick Folsom" <kd4ysg@> wrote:
> >
> > Hi All I hope I'm not repeating someone else?
> > I had to rebuild my AC (MS-4) power supply when it went out.
> > I did replace All Tubes, But now all I have is 80 Watts out,
> > Before I had 300-325 Watts, Did adjustments and re-did Adjustments.
> > Still Low Power out any help??
> >
> > Thanks.
> >
>

632. Back to Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 21:37:22 UTC
From: reab1021
Topic: 632 Message: 632

I once had a tr4c, my first ssb rig. It developed some problems I did not know how to fix so I got into the solid state thing. I am wanting to get back with a good tr4 and a good power supply. I miss the warm glow and the audio and the signal reports. I also want to learn to fix stuff as the need arises. Dayton

633. TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 22:12:04 UTC
From: Dave Vest
Topic: 633 Message: 633

Hi to the group,

Working on a TR-4c and the 9 MHz xtal has drifted off freq and cannot be adjusted to spec with the trimmer. Have not tried padding the xtal as of yet but may give that a try. So if anyone has a parts rig with a xtal still in it they are willing to part with that would be great. I think that all of the TR-3 and 4's all use the same xtal.

Thanks,

Dave, K8DV

634. Re: [DrakeRadio] TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-23 22:51:36 UTC
From: Steve Matda
Topic: 633 Message: 634

I'm having International Crystal grind me one...order
was placed yesterday. $20.

BTW...same price for a crystal for the VFO to cover
28-28.5 Mhz...$20. Makes me wonder about that recent
eBay auction where someone paid $40...

Steve, KE4MOB

--- Dave Vest <k8dv@...> wrote:

> Hi to the group,
>
> Working on a TR-4c and the 9 MHz xtal has drifted
> off freq and cannot
> be adjusted to spec with the trimmer. Have not
> tried padding the xtal
> as of yet but may give that a try. So if anyone has
> a parts rig with a
> xtal still in it they are willing to part with that
> would be great. I
> think that all of the TR-3 and 4's all use the same
> xtal.
>
> Thanks,
>
> Dave, K8DV
>
>

_____
Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

635. Re: [DrakeRadio] TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-24 03:46:01 UTC
From: K5VSE
Topic: 633 Message: 635

I see that happen all the time on the "E" place. As Red Foreman would say on the 70's Show, "Dumb Asses"

K5VSE/Mike

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

636. Re: [DrakeRadio] TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-24 15:13:05 UTC
From: Dave Vest, K8DV
Topic: 633 Message: 636

Hi Steve,

Do you have the specs you used to order the xtal? That is most likely the best way to get one.

Thanks,
Dave

---- Steve Matda <smatda@...> wrote:
I'm having International Crystal grind me one...order
was placed yesterday. $20.

BTW...same price for a crystal for the VFO to cover
28-28.5 Mhz...$20. Makes me wonder about that recent
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> Dave, K8DV
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637. Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-24 22:05:03 UTC
From: w5rkl
Topic: 633 Message: 637

If you go to International Crystal's website at the following
link you'll see the list of manufacturers they have crystal
information on. Just provide them with the make and model of
the radio you want the crystal for along with the circuit
the crystal goes in and they should be able to do the rest.
Quite simple actually.

http://www.icmfg.com/hamradio-manufacturers.html

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Dave Vest, K8DV" <k8dv@...> wrote:
>
> Hi Steve,
>
> Do you have the specs you used to order the xtal? That is most
likely the best way to get one.
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> ---- Steve Matda <smatda@...> wrote:
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> Never miss a thing. Make Yahoo your home page.
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>

638. Re: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-24 22:50:32 UTC
From: Steve Matda
Topic: 638 Message: 638

Mike's right. I just told the customer service rep I needed a 9 MHz IF crystal for a Drake TR-4C, and she done the rest!!

Steve, KE4MOB

----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Thursday, January 24, 2008 5:05 PM
Subject: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

If you go to International Crystal's website at the following
link you'll see the list of manufacturers they have crystal
information on. Just provide them with the make and model of
the radio you want the crystal for along with the circuit
the crystal goes in and they should be able to do the rest.
Quite simple actually.

http://www.icmfg.com/hamradio-manufacturers.html

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Mike
W5RKL

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> Steve, KE4MOB
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> http://www.yahoo.com/r/hs
>

#ygrp-mkp { BORDER-BOTTOM: #d8d8d8 1px solid; BORDER-LEFT: #d8d8d8 1px solid;
BORDER-RIGHT: #d8d8d8 1px solid; BORDER-TOP: #d8d8d8 1px solid; FONT-FAMILY: Arial;
MARGIN: 14px 0px; PADDING-BOTTOM: 0px; PADDING-LEFT: 14px; PADDING-RIGHT: 14px;
PADDING-TOP: 0px}#ygrp-mkp HR { BORDER-BOTTOM: #d8d8d8 1px solid; BORDER-LEFT: #d8d8d8 1px
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COLOR: #628c2a; FONT-SIZE: 85%; FONT-WEIGHT: bold; LINE-HEIGHT: 122%; MARGIN: 10px
0px}#ygrp-mkp #ads { MARGIN-BOTTOM: 10px}#ygrp-mkp .ad { PADDING-BOTTOM: 0px;
PADDING-LEFT: 0px; PADDING-RIGHT: 0px; PADDING-TOP: 0px}#ygrp-mkp .ad A { COLOR: #0000ff;
TEXT-DECORATION: none}

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[Non-text portions of this message have been removed]

639. Drake equipment for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-27 19:05:22 UTC
From: Sharon Heivilin
Topic: 639 Message: 639

Gentlemen,
I have made the decision to sell my Drake equipment that I have had for oh, about 25 years. I'm not going to say they are in prisine condition, but when I last had them on the air in 2000 - it worked. When I moved and turned on the TR4CW after I got settled, the audio was out. I have hung on to them, but I sure have not had it fixed and it's time to clean out the closet. I'm on the air, but not on the Drake. What better group to advertise it with first than this one. If you are interested, contact me and I will send pictures of current condition.
We can dicker on the prices as I'm not that far along in the process if you are serious. I'm reasonable and if no takers, I'll ask locally.
W-4 Wattmeter. #8300
MS-4 Speaker #56550
TR-4cw #43152 (missing one knob and some feet. (I have a few extra tubes, 6ZB6, 12AV7, OA2 (7), D6A.
With a little TLC it will be a fine running station again now that the sunspot cycle will be taking off soon.
Sharon
KC8EO@...

_____
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http://www.yahoo.com/r/hs

[Non-text portions of this message have been removed]

640. Re: [DrakeRadio] Drake equipment for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-27 21:21:13 UTC
From: Don
Topic: 639 Message: 640

I'm sure you'll have plenty of reasonable offers, I would myself but it will take me until most of the year to pay of last christmas !
of course, I am always up for donations ! :)
Good luck with the sale, and thanks for offering them here to the group first.

Don
AD7ll

----- Original Message -----
From: Sharon Heivilin
To: DrakeRadio@yahoogroups.com
Sent: Sunday, January 27, 2008 12:05 PM
Subject: [DrakeRadio] Drake equipment for sale

Gentlemen,
I have made the decision to sell my Drake equipment that I have had for oh, about 25 years. I'm not going to say they are in prisine condition, but when I last had them on the air in 2000 - it worked. When I moved and turned on the TR4CW after I got settled, the audio was out. I have hung on to them, but I sure have not had it fixed and it's time to clean out the closet. I'm on the air, but not on the Drake. What better group to advertise it with first than this one. If you are interested, contact me and I will send pictures of current condition.
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W-4 Wattmeter. #8300
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With a little TLC it will be a fine running station again now that the sunspot cycle will be taking off soon.
Sharon
KC8EO@...

_____
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http://www.yahoo.com/r/hs

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

641. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-28 01:10:17 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 641

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

642. Re: [DrakeRadio] Drake equipment for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-28 04:26:33 UTC
From: Sharon Heivilin
Topic: 639 Message: 642

The Drake is sold. I'll repost if it falls through.

Thank you!
Sharon
KC8EO

----- Original Message ----
From: Sharon Heivilin <kc8eo@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, January 27, 2008 1:05:22 PM
Subject: [DrakeRadio] Drake equipment for sale

Gentlemen,

I have made the decision to sell my Drake equipment that I have had for oh, about 25 years. I'm not going to say they are in prisine condition, but when I last had them on the air in 2000 - it worked. When I moved and turned on the TR4CW after I got settled, the audio was out. I have hung on to them, but I sure have not had it fixed and it's time to clean out the closet. I'm on the air, but not on the Drake. What better group to advertise it with first than this one. If you are interested, contact me and I will send pictures of current condition.

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W-4 Wattmeter. #8300

MS-4 Speaker #56550

TR-4cw #43152 (missing one knob and some feet. (I have a few extra tubes, 6ZB6, 12AV7, OA2 (7), D6A.

With a little TLC it will be a fine running station again now that the sunspot cycle will be taking off soon.

Sharon

KC8EO@earthlink. net

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[Non-text portions of this message have been removed]

<!--

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#ygrp-mkp{
border:1px solid #d8d8d8;font-family:Arial;margin:14px 0px;padding:0px 14px;}
#ygrp-mkp hr{
border:1px solid #d8d8d8;}
#ygrp-mkp #hd{
color:#628c2a;font-size:85%;font-weight:bold;line-height:122%;margin:10px 0px;}
#ygrp-mkp #ads{
margin-bottom:10px;}
#ygrp-mkp .ad{
padding:0 0;}
#ygrp-mkp .ad a{
color:#0000ff;text-decoration:none;}
-->

<!--

#ygrp-sponsor #ygrp-lc{
font-family:Arial;}
#ygrp-sponsor #ygrp-lc #hd{
margin:10px 0px;font-weight:bold;font-size:78%;line-height:122%;}
#ygrp-sponsor #ygrp-lc .ad{
margin-bottom:10px;padding:0 0;}
-->

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#ygrp-mlmsg {font-size:13px;font-family:arial, helvetica, clean, sans-serif;}
#ygrp-mlmsg table {font-size:inherit;font:100%;}
#ygrp-mlmsg select, input, textarea {font:99% arial, helvetica, clean, sans-serif;}
#ygrp-mlmsg pre, code {font:115% monospace;}
#ygrp-mlmsg * {line-height:1.22em;}
#ygrp-text{
font-family:Georgia;
}
#ygrp-text p{
margin:0 0 1em 0;}
#ygrp-tpmsgs{
font-family:Arial;
clear:both;}
#ygrp-vitnav{
padding-top:10px;font-family:Verdana;font-size:77%;margin:0;}
#ygrp-vitnav a{
padding:0 1px;}
#ygrp-actbar{
clear:both;margin:25px 0;white-space:nowrap;color:#666;text-align:right;}
#ygrp-actbar .left{
float:left;white-space:nowrap;}
..bld{font-weight:bold;}
#ygrp-grft{
font-family:Verdana;font-size:77%;padding:15px 0;}
#ygrp-ft{
font-family:verdana;font-size:77%;border-top:1px solid #666;
```

```
padding:5px 0;
}
#ygrp-mlmsg #logo{
padding-bottom:10px;}

#ygrp-vital{
background-color:#e0ecee;margin-bottom:20px;padding:2px 0 8px 8px;}
#ygrp-vital #vithd{
font-size:77%;font-family:Verdana;font-weight:bold;color:#333;text-transform:uppercase;}
#ygrp-vital ul{
padding:0;margin:2px 0;}
#ygrp-vital ul li{
list-style-type:none;clear:both;border:1px solid #e0ecee;
}
#ygrp-vital ul li .ct{
font-weight:bold;color:#ff7900;float:right;width:2em;text-align:right;padding-right:.5em;}
#ygrp-vital ul li .cat{
font-weight:bold;}
#ygrp-vital a{
text-decoration:none;}

#ygrp-vital a:hover{
text-decoration:underline;}

#ygrp-sponsor #hd{
color:#999;font-size:77%;}
#ygrp-sponsor #ov{
padding:6px 13px;background-color:#e0ecee;margin-bottom:20px;}
#ygrp-sponsor #ov ul{
padding:0 0 0 8px;margin:0;}
#ygrp-sponsor #ov li{
list-style-type:square;padding:6px 0;font-size:77%;}
#ygrp-sponsor #ov li a{
text-decoration:none;font-size:130%;}
#ygrp-sponsor #nc{
background-color:#eee;margin-bottom:20px;padding:0 8px;}
#ygrp-sponsor .ad{
padding:8px 0;}
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font-family:Arial;font-weight:bold;color:#628c2a;font-size:100%;line-height:122%;}
#ygrp-sponsor .ad a{
text-decoration:none;}
#ygrp-sponsor .ad a:hover{
text-decoration:underline;}
#ygrp-sponsor .ad p{
margin:0;}
o{font-size:0;}
..MsoNormal{
margin:0 0 0 0;}
#ygrp-text tt{
font-size:120%;}
```

```
blockquote{margin:0 0 0 4px;}
..replbq{margin:4;}
-->

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Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

[Non-text portions of this message have been removed]
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643. Re: [DrakeRadio] Drake equipment for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-28 04:29:07 UTC
From: Sharon Heivilin
Topic: 639 Message: 643

I've been reading the threads for a while now as I was toying with the idea of fixing it, but I knew I would never get around to it. At least here, it will go to a good home and be appreciated. Thanks for your comments.
Sharon
KC8EO

----- Original Message ----
From: Don <drfrasher@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, January 27, 2008 3:21:13 PM
Subject: Re: [DrakeRadio] Drake equipment for sale

I'm sure you'll have plenty of reasonable offers, I would myself but it will take me until

most of the year to pay of last christmas !

of course, I am always up for donations ! :)

Good luck with the sale, and thanks for offering them here to the group first.

Don

AD7ll

----- Original Message -----

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To: DrakeRadio@yahoogro ups.com

Sent: Sunday, January 27, 2008 12:05 PM

Subject: [DrakeRadio] Drake equipment for sale

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[Non-text portions of this message have been removed]

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#ygrp-mkp{
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color:#0000ff;text-decoration:none;}
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#ygrp-sponsor #ygrp-lc{
font-family:Arial;}
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margin:10px 0px;font-weight:bold;font-size:78%;line-height:122%;}
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<!--

#ygrp-mlmsg {font-size:13px;font-family:arial, helvetica, clean, sans-serif;}
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#ygrp-vital a:hover{
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#ygrp-sponsor #ov{
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#ygrp-sponsor #ov ul{
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#ygrp-sponsor .ad #hd1{
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#ygrp-sponsor .ad a{
text-decoration:none;}
#ygrp-sponsor .ad a:hover{
text-decoration:underline;}
#ygrp-sponsor .ad p{
margin:0;}
o{font-size:0;}
..MsoNormal{
margin:0 0 0 0;}
#ygrp-text tt{
font-size:120%;}
blockquote{margin:0 0 0 4px;}
..replbq{margin:4;}
-->

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Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

[Non-text portions of this message have been removed]
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644. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-29 23:17:49 UTC
From: Frederick Folsom
Topic: 629 Message: 644

TNX for reply!, Watt meter is a B&W VS300A Scale 0-300W
When I got the Rig I always got full scale on X-CW it work
that way for almost 2 years. Replace all tubes. I Didn't
Do any Adjustments at all to the rig.
Yes these rigs were rated at 260W out but alot of them did
more, I had one almost 10 years ago that putout 380Watts
SSB. I think I need to adjust for New tubes...

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I forgot to ask a few additional questions.
> You say you are only getting 80 watts output.
> Is this 80 watt output reading obtained in TUNE
> position or during voice peaks in sideband?
> What type of RF meter are you using to determine
> the output power? What scale are you reading the
> output power from?
>
> 73
> Mike
> W5RKL

645. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-30 16:01:24 UTC
From: w5rkl
Topic: 629 Message: 645

For a TR4C to produce 380 watts "output", considering everything
is operating at peak performance and the final amplifier is operating
at a minimum of 50 percent efficiency, the TR4C's "input" power would
have to be 760 watts. Using a stock TR4C and either a stock AC3
or AC4 power supply, that's simply not possible. The maximum high
voltage and current rating doesn't support that power rating.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Frederick Folsom" <kd4ysg@...> wrote:
>
> TNX for reply!, Watt meter is a B&W VS300A Scale 0-300W
> When I got the Rig I always got full scale on X-CW it work
> that way for almost 2 years. Replace all tubes. I Didn't
> Do any Adjustments at all to the rig.
> Yes these rigs were rated at 260W out but alot of them did
> more, I had one almost 10 years ago that putout 380Watts
> SSB. I think I need to adjust for New tubes...
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > I forgot to ask a few additional questions.
> > You say you are only getting 80 watts output.
> > Is this 80 watt output reading obtained in TUNE
> > position or during voice peaks in sideband?
> > What type of RF meter are you using to determine
> > the output power? What scale are you reading the
> > output power from?
> >
> > 73
> > Mike
> > W5RKL
>

646. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-30 19:10:15 UTC
From: Frederick Folsom
Topic: 629 Message: 646

Hmmm.. Will Mike W5RKL, That dosn't answer question,

Why low output <80 Watts out..
But thanks anyway!
73's Fred

647. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-30 21:48:47 UTC
From: Floyd Sense
Topic: 629 Message: 647

Fred - W5RKL has supplied you with a lot of good information, and did so in a most kind fashion. But, based on your responses, I can tell you for sure that YOU will NEVER fix this TR4. Your observations of the power output in the past are just plain wrong and impossible. The operating characteristics of the 6JB6 are quite well known and your claims of 300+ watts output tells me that you don't understand the very basics of tube or transmitter operation. My advice to you is to send the TR4 to one of the few guys who still work on them and know what they're doing. The WB4HFN website lists W8PU and WA8SAJ as two who currently service old Drake gear.

Chances of your B&W tuner's wattmeter being off by a large amount are very high, especially if you are using an antenna and not a 50 ohm dummy load for your testing. I have no doubt that your output might be lower than before with the new tubes, but you also said you did some power supply work. W5RKL ask if you had done the voltage checks and you failed to respond. Given the power supply work, the first thing I'd do is to check the voltages on the final tubes - and check every one of them. It's possible that pulling and inserting the tubes damaged an already failing solder joint on one of the tube sockets. It's also possible that your power supply work resulted in lower than normal plate or screen voltages. With your insistance that you should be able to get 300+ watts output, it's entirely possible that you popped a screen dropping resistor or two, or simply cooked the new tubes. You didn't mention if the output was lower on all bands, or just one. It would not be unusual for a vintage transmitter or transceiver to exhibit quite different output levels across the bands even when everything is properly adjusted. Here's a link where you can find some other possible causes of low output.
http://www.dproducts.be/Drake_Museum/how_to_fix_.htm

You also should not assume that because you replaced ALL the tubes that the new ones didn't have a defect in the bunch somewhere. The fact that they're new-in-the-box doesn't mean much when the box is 40 years old.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "Frederick Folsom" <kd4ysg@...> wrote:
>
> Hi All I hope I'm not repeating someone else?
> I had to rebuild my AC (MS-4) power supply when it went out.
> I did replace All Tubes, But now all I have is 80 Watts out,
> Before I had 300-325 Watts, Did adjustments and re-did Adjustments.
> Still Low Power out any help??

>
> Thanks.
>

648. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-31 00:31:50 UTC
From: Frederick Folsom
Topic: 629 Message: 648

Sorry All, I didn't mean to sound that way!,
Hey I'm just getting olde! hi hi.
I've been at hamming for 28 Years, and sometime you just
have to stand back to see the big picture!
As for the rig yes it could be a bad meter!, I've rebuild
more then 10 rigs over the years. I did over look one
main thing, 'Neneutralize' Yep I over look it!
Like I said I'm just getting olde.

Again sorry about beening an ASS!

-Fred

649. Re: Replaced Tubes in TR4 Now Low output 80W Max

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-01-31 21:36:59 UTC
From: w5rkl
Topic: 629 Message: 649

No problem Fred. We all make mistakes and trust me, I've made my
share over the years.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Frederick Folsom" <kd4ysg@...> wrote:
>
> Sorry All, I didn't mean to sound that way!,
> Hey I'm just getting olde! hi hi.
> I've been at hamming for 28 Years, and sometime you just
> have to stand back to see the big picture!
> As for the rig yes it could be a bad meter!, I've rebuild
> more then 10 rigs over the years. I did over look one
> main thing, 'Neneutralize' Yep I over look it!
> Like I said I'm just getting olde.
>
> Again sorry about beening an ASS!
>
> -Fred
>

650. Drake 2-B Issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-01 15:00:36 UTC
From: Randy
Topic: 650 Message: 650

I've got a Drake 2-B that has recently developed a strange issue. The radio receives well and seems to work on all bands, however, the RF Gain control has absolutely no effect (it's always at full gain no matter the position of the gain control). Additionally, the RCV/STBY switch has no effect. Even in the STBY position, the unit keeps receiving. Does anybody have any suggestions as to where I should start my troubleshooting procedure?

Thanks for any help.

Randy

651. Re: [DrakeRadio] Drake 2-B Issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-01 16:10:54 UTC
From: Garey Barrell
Topic: 650 Message: 651

Randy -

Make sure the AVC terminal on the back is NOT shorted to the GND
terminal right next to it.

Any difference between Fast and Slow AVC? Is the receive audio distorted?

This is an EXTREMELY high impedance circuit, and it doesn't take much
leakage to upset it.

Shorted RF GAIN control, leaky cap at C69 or possibly C80.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> I've got a Drake 2-B that has recently developed a strange issue. The
> radio receives well and seems to work on all bands, however, the RF
> Gain control has absolutely no effect (it's always at full gain no
> matter the position of the gain control). Additionally, the RCV/STBY
> switch has no effect. Even in the STBY position, the unit keeps
> receiving. Does anybody have any suggestions as to where I should
> start my troubleshooting procedure?
>
> Thanks for any help.
>
> Randy
>
>

652. TR-4 bad 9MHz filter (lower) ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-02 06:58:20 UTC
From: Ryan Pigg
Topic: 652 Message: 652

Hi Group:

I'm still working on my T4-XB (think it's the switch).. But I just picked up a TR-4 and it transmits and sounds normal on 40 and 20 (correct sideband selected by choosing 'x') but on 80, 15, and 10 the audio sounds like it's on a CW filter (too narrow to let the sideband signal through. with careful tuning I can make something out, but it just does not sound right). I'm thinking the 9MHz filter (one side) is bad. what do you guys think? Do these things fail? if it's bad, how do I get one?

Thanks for all your advice and time,

73, Ryan, N7QJ

[Non-text portions of this message have been removed]

653. Re: TR-4 bad 9MHz filter (lower) ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-02 15:24:53 UTC
From: w5rkl
Topic: 652 Message: 653

Ryan,

Your description stated that on 40 and 20 meters with the sideband switch placed in the "X" position, signals sound normal. However, you did not state how the signals sounded when you changed the sideband switch to the non "X" position leaving the band switch in 40 or 20 meters. Taking into account the signal will sound garbled, receiving on the wrong sideband, does the signal appear to be like it does on 80, 15, and 10 meters, very narrow sounding like going through a narrow CW filter?

Have you tried cleaning the contacts on the sideband filter switch? I would do this before replacing the filter.

Yes, filters do go bad but not very often. Replacement filters can be obtained at the following website.

http://www.qth.com/inrad/index.htm

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@...> wrote:
>
> Hi Group:
>
> I'm still working on my T4-XB (think it's the switch).. But I just picked up a TR-4 and it transmits and sounds normal on 40 and 20 (correct sideband selected by choosing 'x') but on 80, 15, and 10 the audio sounds like it's on a CW filter (too narrow to let the sideband signal through. with careful tuning I can make something out, but it just does not sound right). I'm thinking the 9MHz filter (one side) is bad. what do you guys think? Do these things fail? if it's bad, how do I get one?
>
>
> Thanks for all your advice and time,
>
> 73, Ryan, N7QJ
>
>
> [Non-text portions of this message have been removed]
>

654. Re: [DrakeRadio] Re: TR-4 bad 9MHz filter (lower) ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-02 17:37:21 UTC
From: Garey Barrell
Topic: 652 Message: 654

Ryan -

It's very easy to definitively check the filters. Turn on the
calibrator and tune slowly through it. As you tune closer to the
calibrator signal, the S-Meter will go from 0 up to near the peak of the
calibrator level fairly quickly, remain at approximately the same level
for about 2 kHz on the dial, and then drop rapidly back down to 0. It
should be "flat" across the top, with no more than a meter pointer's
width drop from one "edge" to the other. There should be no "hitches"
in the slope on either side, just a smooth edge. Once one is checked,
switch to the other sideband and repeat. You should see approximately
the same shape on either filter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

>> Hi Group:
>>
>> I'm still working on my T4-XB (think it's the switch).. But I
>>
> just picked up a TR-4 and it transmits and sounds normal on 40 and 20
> (correct sideband selected by choosing 'x') but on 80, 15, and 10 the
> audio sounds like it's on a CW filter (too narrow to let the sideband
> signal through. with careful tuning I can make something out, but it
> just does not sound right). I'm thinking the 9MHz filter (one side)
> is bad. what do you guys think? Do these things fail? if it's bad,
> how do I get one?
>
>>
>>
>> Thanks for all your advice and time,
>>
>> 73, Ryan, N7QJ
>>
>>
>

655. Re: [DrakeRadio] Re: TR-4 bad 9MHz filter (lower) ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-02 18:14:01 UTC
From: Ryan Pigg
Topic: 652 Message: 655

Hi Mike,
Thank you! Last night I was listening to the radio on 80M. The sideband switch was in the default (non 'x') position. This shows lower sideband. today I'm listening to it on 20 meters and with the non 'x' position it shows up in lower sideband and it sounds like it's on a CW filter. Basically, when ever the switch is in the non 'x' position, it sounds narrow. On 80 meters if I move to the x position, it sounds like a normal radio (I have a R-4B and 2B) but like you said, the signal is garbeled since it is on the wrong sideband.

Today I have it on 20 meters and have to choose the 'x' position (upper) and it works great. So it looks like I can use it on 40 and 20 with no problem. (I have to choose 'x' to get the correct sideband) . I'll check the cabling and clean the switch.

Will let you know. Thanks, Ryan, N7QJ

w5rkl <w5rkl@...> wrote:
Ryan,

Your description stated that on 40 and 20 meters with the
sideband switch placed in the "X" position, signals sound
normal. However, you did not state how the signals sounded
when you changed the sideband switch to the non "X" position
leaving the band switch in 40 or 20 meters. Taking into account
the signal will sound garbled, receiving on the wrong sideband,
does the signal appear to be like it does on 80, 15, and 10 meters,
very narrow sounding like going through a narrow CW filter?

Have you tried cleaning the contacts on the sideband filter
switch? I would do this before replacing the filter.

Yes, filters do go bad but not very often. Replacement filters
can be obtained at the following website.

http://www.qth.com/inrad/index.htm

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@...> wrote:
>
> Hi Group:
>
> I'm still working on my T4-XB (think it's the switch).. But I
just picked up a TR-4 and it transmits and sounds normal on 40 and 20
(correct sideband selected by choosing 'x') but on 80, 15, and 10 the
audio sounds like it's on a CW filter (too narrow to let the sideband
signal through. with careful tuning I can make something out, but it

just does not sound right). I'm thinking the 9MHz filter (one side) is bad. what do you guys think? Do these things fail? if it's bad, how do I get one?
>
>
> Thanks for all your advice and time,
>
> 73, Ryan, N7QJ
>
>
> [Non-text portions of this message have been removed]
>

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656. Re: TR-4 bad 9MHz filter (lower) ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-02 18:21:45 UTC
From: w5rkl
Topic: 652 Message: 656

Ryan,

It sure sounds like one of the 9Mhz filters is bad. However,
without further checking, I'm not putting all my money on that
assumption just yet.

I would also look for any circuit changes, mods, etc. Since you are
not the original owner you can't be sure some previous owner
tried to make some modification that went sour. If you don't
have the manual, you can download it from the bama mirror site
at

http://bama.edebris.com/manuals/drake/tr4/

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@...> wrote:
>
> Hi Mike,
> Thank you! Last night I was listening to the radio on 80M. The
sideband switch was in the default (non 'x') position. This shows
lower sideband. today I'm listening to it on 20 meters and with the
non 'x' position it shows up in lower sideband and it sounds like it's
on a CW filter. Basically, when ever the switch is in the non 'x'
position, it sounds narrow. On 80 meters if I move to the x position,
it sounds like a normal radio (I have a R-4B and 2B) but like you
said, the signal is garbeled since it is on the wrong sideband.
>
> Today I have it on 20 meters and have to choose the 'x' position
(upper) and it works great. So it looks like I can use it on 40 and
20 with no problem. (I have to choose 'x' to get the correct
sideband) . I'll check the cabling and clean the switch.
>
> Will let you know. Thanks, Ryan, N7QJ
>
> w5rkl <w5rkl@...> wrote:
> Ryan,
>
> Your description stated that on 40 and 20 meters with the
> sideband switch placed in the "X" position, signals sound
> normal. However, you did not state how the signals sounded
> when you changed the sideband switch to the non "X" position
> leaving the band switch in 40 or 20 meters. Taking into account
> the signal will sound garbled, receiving on the wrong sideband,

> does the signal appear to be like it does on 80, 15, and 10 meters,
> very narrow sounding like going through a narrow CW filter?
>
> Have you tried cleaning the contacts on the sideband filter
> switch? I would do this before replacing the filter.
>
> Yes, filters do go bad but not very often. Replacement filters
> can be obtained at the following website.
>
> http://www.qth.com/inrad/index.htm
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@> wrote:
> >
> > Hi Group:
> >
> > I'm still working on my T4-XB (think it's the switch).. But I
> just picked up a TR-4 and it transmits and sounds normal on 40 and 20
> (correct sideband selected by choosing 'x') but on 80, 15, and 10 the
> audio sounds like it's on a CW filter (too narrow to let the sideband
> signal through. with careful tuning I can make something out, but it
> just does not sound right). I'm thinking the 9MHz filter (one side)
> is bad. what do you guys think? Do these things fail? if it's bad,
> how do I get one?
> >
> >
> > Thanks for all your advice and time,
> >
> > 73, Ryan, N7QJ
> >
> >
> > [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

657. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-06 15:15:57 UTC
From: Victor Waddington
Topic: 606 Message: 657

Hello all
Bit of a problem here.
No matter how I adjust the VOX controls the Tx won't key in (CW)
until I am on maximum gain (20 past 12 o'clock) But in the 'Tune'
position I get 100w out around 10 to 12 o'clock.With the gain left in
that position the transmitter won't key until I increase it to maximum.

All the valves have been replaced with new and should be OK but it did
the same with the old valves.

So, briefly, any ideas why I should get 100w out on 'Tune' with fairly
low gain but need max gain for the VOX to come in?

Hope I've made myself clear!!

Vic - G4JSS

658. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-06 16:36:10 UTC
From: Garey Barrell
Topic: 606 Message: 658

Vic -

Make sure the CW Delay control is not set to minimum. Set to midrange
to start.

If OK, check C98

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello all
> Bit of a problem here.
> No matter how I adjust the VOX controls the Tx won't key in (CW)
> until I am on maximum gain (20 past 12 o'clock) But in the 'Tune'
> position I get 100w out around 10 to 12 o'clock.With the gain left in
> that position the transmitter won't key until I increase it to maximum.
>
> All the valves have been replaced with new and should be OK but it did
> the same with the old valves.
>
> So, briefly, any ideas why I should get 100w out on 'Tune' with fairly
> low gain but need max gain for the VOX to come in?
>
> Hope I've made myself clear!!
>
> Vic - G4JSS
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

659. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-06 22:22:18 UTC
From: w5rkl
Topic: 606 Message: 659

In addition to what Garey suggested, check CR16.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Vic -
>
> Make sure the CW Delay control is not set to minimum. Set to midrange
> to start.
>
> If OK, check C98
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Victor Waddington wrote:
> > Hello all
> > Bit of a problem here.
> > No matter how I adjust the VOX controls the Tx won't key in (CW)
> > until I am on maximum gain (20 past 12 o'clock) But in the 'Tune'
> > position I get 100w out around 10 to 12 o'clock.With the gain left in
> > that position the transmitter won't key until I increase it to
maximum.
> >
> > All the valves have been replaced with new and should be OK but it
did
> > the same with the old valves.
> >
> > So, briefly, any ideas why I should get 100w out on 'Tune' with
fairly
> > low gain but need max gain for the VOX to come in?
> >
> > Hope I've made myself clear!!
> >
> > Vic - G4JSS
> >
> >

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> >
> > Yahoo! Groups Links
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660. T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-06 22:37:22 UTC
From: w3rxo
Topic: 660 Message: 660

It's been many years since a Drake "B" Line was my primary radio, and have changed antennas several times since, and will soon be changing again(Vertical is just NOT the way to go). But, I am having better performance out of the "B" line, both TX and RX, than on my 570D Kenwood, and it is much more fun to operate. I get comments regularly from folks who are intrigued by someone running a vintage station, and the signal and audio reports are VERY GOOD.
I am currently running an HF6V as my only low band antenna, but plan to hang a multi-band (80-10M) wire (Cobra Ultra Lite Jr.)very soon. I am having no problems tuning up on most bands, but when I tune up on 20M, the load control reaches maximum output only when it is in the fully clockwise position, and then, it does not have comparable full output to what it does on the other bands I typically operate on. Power out, is only 60-75%, on 20M as it is on 75/80M. Am wondering, from those of you with far more experience on Drakes than I, if this may be a transmitter problem, or maybe something inherent in the antenna. I have been approaching it as though it is a problem with the antenna, which will rectify itself, when I change antennas, but someone suggested it may be a tube, or component problem. Any suggestions from anyone with more experience than I have? I ran a "B" Line 19 years ago, when first licensed (as a novice), for maybe a year, then sold the "B" Line and went totally solid state, until about 4 weeks ago, when I dusted off the "new" set of Drakes I bought a few months ago. So my experience is not very extensive.

661. Re: [DrakeRadio] T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 00:03:59 UTC
From: Garey Barrell
Topic: 660 Message: 661

Almost certainly an antenna problem.. I believe the HF-6V is a multiband, trapped vertical, which SHOULD have reasonable SWR on 20M. You could have a "mechanical (as opposed to wardrobe) malfunction" or a shorted trap resonating capacitor, or a critter has taken up residence inside the coil, etc......

But for a 50 ohm load, the LOAD control will typically be around 4-5 on the 0-10 scale.

Obviously the BEST way to find out is to load the transmitter into a good 50 ohm dummy load. Any station should have a good load capable of handling the transmitter output for at least a minute or so.

That said, it's possible that there could be a bandswitch or capacitor problem in the output matching network of the transmitter, but I wouldn't spend too much effort on it until you can load it into a KNOWN good load.

In the meantime, I'd avoid 20M, since that type of operation is a good way to kill a $40 set of finals very quickly!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

w3rxo wrote:
> It's been many years since a Drake "B" Line was my primary radio, and
> have changed antennas several times since, and will soon be changing
> again(Vertical is just NOT the way to go). But, I am having better
> performance out of the "B" line, both TX and RX, than on my 570D
> Kenwood, and it is much more fun to operate. I get comments regularly
> from folks who are intrigued by someone running a vintage station, and
> the signal and audio reports are VERY GOOD.
> I am currently running an HF6V as my only low band antenna, but plan
> to hang a multi-band (80-10M) wire (Cobra Ultra Lite Jr.)very soon. I
> am having no problems tuning up on most bands, but when I tune up on
> 20M, the load control reaches maximum output only when it is in the
> fully clockwise position, and then, it does not have comparable full
> output to what it does on the other bands I typically operate on.
> Power out, is only 60-75%, on 20M as it is on 75/80M. Am wondering,
> from those of you with far more experience on Drakes than I, if this
> may be a transmitter problem, or maybe something inherent in the
> antenna. I have been approaching it as though it is a problem with the
> antenna, which will rectify itself, when I change antennas, but
> someone suggested it may be a tube, or component problem. Any

> suggestions from anyone with more experience than I have? I ran a "B"
> Line 19 years ago, when first licensed (as a novice), for maybe a
> year, then sold the "B" Line and went totally solid state, until about
> 4 weeks ago, when I dusted off the "new" set of Drakes I bought a few
> months ago. So my experience is not very extensive.
>
>

663. Re: [DrakeRadio] T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 02:22:47 UTC
From: Dan Galligan
Topic: 660 Message: 663

Thanks for the advice. I am in the market for a decent dummy load. I guess the vertical "dummy load" HF6V in my back yard doesn't count (hi, hi). The antenna is ground mounted, so I can easily inspect it, and see no obvious problems with the antenna, but that doesn't mean there isn't one.
It's likely that I'll get the Cobra Ultra Lite up, and operational, before I can find a suitable dummy load, and hopefully, that will solve the problem. I just tried it on 40M, a while ago, and the opposite position on the Load control is where 40 tuned up at (fully counterclockwise), but I was showing MUCH closer to the same full output, as I have on 75M (meter shows a bit over 200 watts on 40M, but about 120-140 on 20M, and closer to 240 watts on 75 meters, all with < 2 watts reflected. But, meters lie a lot, too. I use it only for a reference). I am guessing that there IS an antenna problem, as that is what my gut has been saying all along, and both responses I have gotten lead me to strengthen that thought. I will need to either find, to buy, or borrow, a dummy load right away, so I can make sure that is straightened out.
Thanks for your help. Dan

664. Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 04:00:02 UTC
From: w5rkl
Topic: 660 Message: 664

Unfortunately Dan, the T4XB is not capable of producing 240 watts output. The T4XB is only rated at 200 watts PEP "input" on SSB and AM and 200 watts DC input on CW and that's with everything working at peak performance. The AC3 or AC4 is unable to provide the voltage and current demand for 240 watts "output". The AC3 and AC4, both supplies will work with the T4XB, has a maximum high voltage rating of 650VDC at 200ma average and 330ma maximum. Therefore, the most output you can expect the T4XB is 120 watts DC on CW and 100 watts PEP on SSB and AM. The 120 watts output I mentioned is with heavy loading which is really pushing those 6JB6's, way more than they should be.

The most you can expect to get out of your T4XB is 120 watts DC and that's with heavy loading, pushing those 6JB6's too hard. On sideband and controlled carrier screen modulation, you can get about 100 to about 110 watts PEP.

I suspect 2 things need to be done

1) transmitter needs an alignment
2) the final needs to be neutralized.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
> Thanks for the advice. I am in the market for a decent dummy load. I guess the vertical "dummy load" HF6V in my back yard doesn't count (hi, hi). The antenna is ground mounted, so I can easily inspect it, and see no obvious problems with the antenna, but that doesn't mean there isn't one.
> It's likely that I'll get the Cobra Ultra Lite up, and operational, before I can find a suitable dummy load, and hopefully, that will solve the problem. I just tried it on 40M, a while ago, and the opposite position on the Load control is where 40 tuned up at (fully counterclockwise), but I was showing MUCH closer to the same full output, as I have on 75M (meter shows a bit over 200 watts on 40M, but about 120-140 on 20M, and closer to 240 watts on 75 meters, all with < 2 watts reflected. But, meters lie a lot, too. I use it only for a reference). I am guessing that there IS an antenna problem, as that is what my gut has been saying all along, and both responses I have gotten lead me to strengthen that thought. I will need to either find, to buy, or borrow, a dummy load right away, so I can make sure that is straightened out.

> Thanks for your help. Dan
>

665. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 04:56:47 UTC
From: Dan Galligan
Topic: 660 Message: 665

Yep, I know it's not capable of that, that's why I said meters lie. I understand the concept of input vs. output, and how much the radio is actually capable of, I simply showed what my watt meter was reading, for reference purposes. Assuming that it is WAY off calibration, it simply shows the percentage of change, on the different bands, with the different settings on the load control.

666. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 04:57:25 UTC
From: Garey Barrell
Topic: 660 Message: 666

I think the real problem here is a mismatched antenna.

As you say, the T-4XB will NOT put out over about 160 watts. However the "Bruene" type wattmeters get all squirrely with SWR on the line, and will read a combination of forward and reflected power under mismatched conditions. In fact, if you add a piece of coax in the feedline so that you are measuring at a different point along the line you'll read a much different power.

The "all-band verticals" can have a reasonable VSWR, but are very narrowband, especially on the 80 and 40M bands, and if it's set up for PHONE, might not be so hot at the CW end of the band.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Unfortunately Dan, the T4XB is not capable of producing 240 watts
> output. The T4XB is only rated at 200 watts PEP "input" on SSB
> and AM and 200 watts DC input on CW and that's with everything
> working at peak performance. The AC3 or AC4 is unable to provide
> the voltage and current demand for 240 watts "output". The AC3
> and AC4, both supplies will work with the T4XB, has a maximum
> high voltage rating of 650VDC at 200ma average and 330ma
> maximum. Therefore, the most output you can expect the T4XB
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> watts output I mentioned is with heavy loading which is really
> pushing those 6JB6's, way more than they should be.
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> get about 100 to about 110 watts PEP.
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> 73
> Mike
> W5RKL
>

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> and see no obvious problems with the antenna, but that doesn't mean
> there isn't one.
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>> It's likely that I'll get the Cobra Ultra Lite up, and operational,
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> before I can find a suitable dummy load, and hopefully, that will
> solve the problem. I just tried it on 40M, a while ago, and the
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> about 120-140 on 20M, and closer to 240 watts on 75 meters, all with <
> 2 watts reflected. But, meters lie a lot, too. I use it only for a
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> what my gut has been saying all along, and both responses I have
> gotten lead me to strengthen that thought. I will need to either find,
> to buy, or borrow, a dummy load right away, so I can make sure that is
> straightened out.
>
>> Thanks for your help. Dan
>>
>>
>
>

667. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 05:10:59 UTC
From: Dan Galligan
Topic: 660 Message: 667

Ok, Garey, now we're talking here. I understand most of what you are saying. But, what is a Breune type of watt meter? I have a Daiwa CN-101L Cross Needle SWR and Power Meter. It rarely shows much reflected power, though at the ends of the phone portions of the bands, especially 40 and 75/80, it does show significant reflected power. My MFJ 269 also shows a reasonably wide <Phone> bandwidth, but VSWR gets up there, in the CW portions, of most bands.
I have always been aware that unless something is being tested on a Bird, with the proper slug, or some sort of lab quality meter, the reading is very suspect. Yes, some can be fairly accurate, but they are typically for reference only. Please educate me on this <Breune> type of meter. I did a search on ask.com, and got nothing of value.
Thanks,
Dan

668. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 05:15:31 UTC
From: Garey Barrell
Topic: 660 Message: 668

Dan -

Actually your wattmeter is probably not off cal, just not designed to read accurately in anything other than a properly terminated 50 ohm line. It will also read wildly different power on different frequencies in a mismatched line.

Ya gots ta get 50 ohms on the 'other' side of that meter! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dan Galligan wrote:
> Yep, I know it's not capable of that, that's why I said meters lie. I understand the concept of input vs. output, and how much the radio is actually capable of, I simply showed what my watt meter was reading, for reference purposes. Assuming that it is WAY off calibration, it simply shows the percentage of change, on the different bands, with the different settings on the load control.
>
>
>

669. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 05:26:52 UTC
From: Garey Barrell
Topic: 660 Message: 669

We got out of sync....

The "Bruene" wattmeter was designed by Warren Bruene at Collins many years ago. It was the first meter for ham use that could be left in the line at all times, AND could be calibrated to read directly in Watts forward and reflected.

Earlier meters such as the "Monimatch" were merely terminated loops coupled to the center conductor of a coax line and read the algebraic sum of the RF voltage appearing at one point on the line. One version involved threading insulated magnet wire through the shield braid of a length of coax and putting a resistor on one end and a diode detector on the other.

Warren put a parallel conductor alongside the center conductor in a coax section to sense the voltage and a toroid transformer that the center section went through, making a single turn primary. A multiturn secondary was then wound and the resultant output rectified to measure the CURRENT through the line. With the known voltage AND current _in a known, constant impedance coaxial line that was properly terminated_ it was easy to "calculate" the RF POWER.

Simplistic explanation, but that is the basic idea that is used by just about all "non-computer" power meters used by hams still today.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dan Galligan wrote:
> Ok, Garey, now we're talking here. I understand most of what you are saying. But, what is a Breune type of watt meter? I have a Daiwa CN-101L Cross Needle SWR and Power Meter. It rarely shows much reflected power, though at the ends of the phone portions of the bands, especially 40 and 75/80, it does show significant reflected power. My MFJ 269 also shows a reasonably wide <Phone> bandwidth, but VSWR gets up there, in the CW portions, of most bands.
> I have always been aware that unless something is being tested on a Bird, with the proper slug, or some sort of lab quality meter, the reading is very suspect. Yes, some can be fairly accurate, but they are typically for reference only. Please educate me on this <Breune> type of meter. I did a search on ask.com, and got nothing of value.
> Thanks,
> Dan
>
>
>

> Yahoo! Groups Links
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671. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 06:14:56 UTC
From: Dan Galligan
Topic: 660 Message: 671

Garey,
Thanks, so much. It is an education I needed.
I am planning on sending AC-4, to Jeff Covelli WA8SAJ, after he returns from a trip, on the 15th, and have the new board installed in the AC-4. I understand that the power supplies are now beginning to fail, with fair frequency, so it's going to get worked on first. Since I believe the problem we have been discussing is more likely in the antenna, and the tuner I am awaiting, combined with the wire antenna, should solve it, I'll wait on sending in the Tx or Rx, until I have tried to resolve the other possible issues. I even just bought another AC-4, and will have it's board replaced, giving me a spare to use, or sell one, after the whole station is checked out for proper operation.
Thanks for all your help

672. Gorgeous Shawls and Scarves- AntiqueShawls.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 11:20:01 UTC
From: prateek3_cassanova
Topic: 672 Message: 672

We have seen a Gorgeous Collection Of shawls, Stoles, Scarves, Ponchos etc. at www.antiqueshawls.com for my wholesale store.

They are the wholesalers and exporters of Pashmina Shawls, Jamawar Shawls, Silk Shawls, Cashmere Shawls, Silk Pashmina Shawls, scarves, stoles, ponchos etc. - http://www.antiqueshawls.com

673. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 13:51:53 UTC
From: Don
Topic: 673 Message: 673

My apologies to the group. This is the first spammer
we have had here, they have been removed from the group.

Don
AD7LL
group owner

[Non-text portions of this message have been removed]

674. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 14:29:47 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 674

Hi

More problems!! Haven't had time yet to check on info given re Tx only keying on full gain etc.

But new problem has appeared. I will try and put it as best I can describe it.

On 'Tune' I get 100w at around 280ma IC.

Switch to separate/ transmit and I get the same 100w for about 3 secs and then the IC quickly dies to the quiescent current on the meter with no RF out.

Switch back to 'tune' and 100w out . Switch back to 'Separate' and again 100w for a few seconds and then it dies. etc. etc.

I can hear the relay dropping in and out as per the VOX delay setting which works OK. However, the VOX gain control has no effect at all at min. or max. and doesn't seem to have any control over the relay.

It,s as though the grid block bias has been temporarily removed (key down) and then re-appears - quickly ascending until it blocks the PA's even in key down position.

Taken the TX off line and might get a chance to do a bit of measuring in the next week or so and check the items mentioned by Gary and Mike (C98 and CR16)

Vic
----Original Message----
From: k4oah@...
Date: 06/02/2008 16:36
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

Make sure the CW Delay control is not set to minimum. Set to midrange
to start.

If OK, check C98

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello all
> Bit of a problem here.
> No matter how I adjust the VOX controls the Tx won't key in (CW)

> until I am on maximum gain (20 past 12 o'clock) But in the 'Tune'
> position I get 100w out around 10 to 12 o'clock.With the gain left in
> that position the transmitter won't key until I increase it to maximum.
>
> All the valves have been replaced with new and should be OK but it did
> the same with the old valves.
>
> So, briefly, any ideas why I should get 100w out on 'Tune' with fairly
> low gain but need max gain for the VOX to come in?
>
> Hope I've made myself clear!!
>
> Vic - G4JSS
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> Yahoo! Groups Links
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Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

675. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-07 17:40:55 UTC
From: w5rkl
Topic: 606 Message: 675

Hi Vic,

Here are few links to some troubleshooting tips for Drake transmitters, including the T4XB.

http://www.dproducts.be/DRAKE_MUSEUM/t4-xb_how_to_fix.htm

http://www.wb4hfn.com/DRAKE/DrakeArticles/Erratic_Power_Out.htm

If you have not yet done so, try cleaning all switch contacts, pull each heterodyne oscillator crystal and clean the pins and sockets. Remove all tubes and give the sockets a shot of cleaner then insert the tubes a couple of times, to get that "scrubbing" action to clean the socket and tube pins. Don't discount a bad tube. I have an SB-401 Heathkit transmitter that had a very similar problem as your T4XB. The output would be good but would drop to zero. Tried cleaning the tube socket and even replaced the tube but the problem still was there. The problem was caused by a poor solder connection at the driver's cathode pin. I notice this one day when I touched the driver tube in transmit mode, the power came back but intermittently. A similar problem can occur with your T4XB with dirty/corroded switch contacts. I also recommend tracing the signal path starting at the 5.645Mhz carrier generator, continuing to the final amplifier.

Just some tips you might consider.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> More problems!! Haven't had time yet to check on info given re Tx only keying on full gain etc.
>
> But new problem has appeared. I will try and put it as best I can describe it.
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setting which works OK. However, the VOX gain control has no effect at
all at min. or max. and doesn't seem to have any control over the relay.
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key down) and then re-appears - quickly ascending until it blocks
the PA's even in key down position.
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> Taken the TX off line and might get a chance to do a bit of
measuring in the next week or so and check the items mentioned by Gary
and Mike (C98 and CR16)
>
>
>
> Vic
> ----Original Message----
> From: k4oah@...
> Date: 06/02/2008 16:36
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
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>
> Vic -
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> to start.
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> If OK, check C98
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> Victor Waddington wrote:
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> > No matter how I adjust the VOX controls the Tx won't key in (CW)
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> >
> > All the valves have been replaced with new and should be OK but it
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> >
> > So, briefly, any ideas why I should get 100w out on 'Tune' with
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> > Hope I've made myself clear!!
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> > Vic - G4JSS
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> > Yahoo! Groups Links
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> ---
> Get up to Â£150 by recycling your old mobile - visit
www.tiscali.co.uk/recycle
>
> [Non-text portions of this message have been removed]
>

676. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 15:33:14 UTC
From: Dave Springer
Topic: 673 Message: 676

That is ok Don, it happens in the best of groups. Thank you for the quick action.

What I have done in my HollowState group is to set it up so that anyone can join. Unless there is a call sign that I can verify in the FCC database, or QRZ when they join all new members are moderated for the first post so that I know they are not spammers, then they can post without moderation.

Dave, N0TXJ

Don <drfrasher@...> wrote:
My apologies to the group. This is the first spammer
we have had here, they have been removed from the group.

Don
AD7LL
group owner

[Non-text portions of this message have been removed]

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

677. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 16:44:41 UTC
From: Don
Topic: 673 Message: 677

Certainly I good idea that I will probably go to. We started this group over a year an half ago in response to the
the other drake group's owner disappeared, and was flooded with spam. Your suggestion should further that goal
against spam while keeping the group as open as possible.
We have been slowly growing since we started, and for those who haven't checked the our groups homepage in
while, we are at 177 members, and increasing in activity. We have some very good people here, great examples to
the true spirit of Ham Radio!. So I hope to continue to keep the spam to an absolute minimun while mainting a free
and open forum for us.

Don
AD7LL

----- Original Message -----
From: Dave Springer
To: DrakeRadio@yahoogroups.com
Sent: Friday, February 08, 2008 8:33 AM
Subject: Re: [DrakeRadio] Gorgeous.....Moderator

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

678. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 17:05:06 UTC
From: Garey Barrell
Topic: 673 Message: 678

Don -

You might consider what I do on groups that I moderate.

Set options so ALL new members are moderated. When their first post appears, you receive an email from YAHOO, then you evaluate and either allow or deny the post and then change their posting status at the same time.

This eliminates the "drive-bys" and NOTHING goes out until you see that they "belong" in the group.

Thanks for maintaining an excellent group!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Don wrote:
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> and open forum for us.
>
> Don
> AD7LL
>
>

679. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 17:10:35 UTC
From: Bill
Topic: 673 Message: 679

Don,
Your doing an Outstanding Job. Thanks, an keep up the Great Work...
Them Spammers are a sneaky bunch...
No Apologies needed...
The spammers really did wipe out that other Group.
My hats off to you Don, Thanks again...

Bill In Ohio...kc8ilp........

Don <drfrasher@...> wrote: Certainly I good idea that I will probably go to. We started this group over a year an half ago in response to the
the other drake group's owner disappeared, and was flooded with spam. Your suggestion should further that goal
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Don
AD7LL

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Dave, N0TXJ

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we have had here, they have been removed from the group.

Don
AD7LL
group owner

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

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680. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 17:28:48 UTC
From: Sprint
Topic: 673 Message: 680

On the medical, Falcon, and animal groups I host, I ask for a short intro comment on why they wish to join. If no comment, I put them on moderate. I have a few that try and BS me with 'intelligent' comments, but I can see through those.

Yahooey has done a good job at patching up the 'holes' in its security that had allowed mass/bulk spamming to spoofed Yahoo addresses.

Joe Wolfe (Still looking for a 'clean' B series twins!)
WA6RKN

----- Original Message -----
From: "Bill" <daytonohio@...>
Subject: Re: [DrakeRadio] Gorgeous.....Moderator

> Don <drfrasher@...> wrote:
> Certainly I good idea that I will probably go to. We started this group
> over a year an half ago in response to the
> the other drake group's owner disappeared, and was flooded with spam.

681. Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 18:06:57 UTC
From: Steve Matda
Topic: 633 Message: 681

Well....I had my hopes dashed.

Just got the crystals in today for my TR-4C from ICM. They sent a
39.1 Mhz crystal for 10 meters. Great for a T-4. Great for an R-4.
Not great for a TR-4C, which is supposed to be 42.5 Mhz.

The customer rep said "But our formula shows Fc + 11.1 Mhz".

sigh

Steve, KE4MOB

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> If you go to International Crystal's website at the following
> link you'll see the list of manufacturers they have crystal
> information on. Just provide them with the make and model of
> the radio you want the crystal for along with the circuit
> the crystal goes in and they should be able to do the rest.
> Quite simple actually.
>
> http://www.icmfg.com/hamradio-manufacturers.html
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, "Dave Vest, K8DV" <k8dv@> wrote:
> >
> > Hi Steve,
> >
> > Do you have the specs you used to order the xtal? That is most
> likely the best way to get one.
> >
> > Thanks,
> > Dave
> >
> > ---- Steve Matda <smatda@> wrote:
> > I'm having International Crystal grind me one...order
> > was placed yesterday. $20.
> >
> > BTW...same price for a crystal for the VFO to cover
> > 28-28.5 Mhz...$20. Makes me wonder about that recent
> > eBay auction where someone paid $40...
> >

> > Steve, KE4MOB
> >
> >
> > --- Dave Vest <k8dv@> wrote:
> >
> > > Hi to the group,
> > >
> > > Working on a TR-4c and the 9 MHz xtal has drifted
> > > off freq and cannot
> > > be adjusted to spec with the trimmer. Have not
> > > tried padding the xtal
> > > as of yet but may give that a try. So if anyone has
> > > a parts rig with a
> > > xtal still in it they are willing to part with that
> > > would be great. I
> > > think that all of the TR-3 and 4's all use the same
> > > xtal.
> > >
> > > Thanks,
> > >
> > > Dave, K8DV
> > >
> > >
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>

> > Never miss a thing. Make Yahoo your home page.
> > http://www.yahoo.com/r/hs
> >
>

682. Re: [DrakeRadio] Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 20:44:08 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 682

Hi Garey/Mike etc.

Had a few minutes to look inside the T-4XC. Went straight to V10a and did a resistance check from pin 3 to earth. Should be 820 ohms or thereabouts. Actual reading was a direct short to earth. So C98 becomes a highly suspicious character!!

Yep, I've done all cleaning of switches, valve pins etc fairly recently but I glanced inside the relay today and saw a bit of soot and slight traces of arcing between pin 5 and the swing contact. Wasn't there a couple of weeks ago.

Grand kids permitting I might get time to have a proper go next week!!

Vic

----Original Message----
From: w5rkl@...
Date: 07/02/2008 17:40
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: T-4XC

Hi Vic,

Here are few links to some troubleshooting tips for Drake transmitters, including the T4XB.

http://www.dproducts.be/DRAKE_MUSEUM/t4-xb_how_to_fix.htm

http://www.wb4hfn.com/DRAKE/DrakeArticles/Erratic_Power_Out.htm

If you have not yet done so, try cleaning all switch contacts, pull each heterodyne oscillator crystal and clean the pins and sockets. Remove all tubes and give the sockets a shot of cleaner then insert the tubes a couple of times, to get that "scrubbing" action to clean the socket and tube pins. Don't discount a bad tube. I have an SB-401 Heathkit transmitter that had a very similar problem as your T4XB. The output would be good but would drop to zero. Tried cleaning the tube socket and even replaced the tube but the problem still was there. The problem was caused by a poor solder connection at the driver's cathode pin. I notice this one day when I touched the driver tube in transmit mode, the power came back but intermittently. A similar problem can occur with your T4XB with dirty/corroded switch contacts. I also recommend tracing the signal path starting at the 5.645Mhz carrier generator, continuing to the final amplifier.

Just some tips you might consider.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> More problems!! Haven't had time yet to check on info given re Tx
only keying on full gain etc.
>
> But new problem has appeared. I will try and put it as best I can
describe it.
>
> On 'Tune' I get 100w at around 280ma IC.
>
> Switch to separate/ transmit and I get the same 100w for about 3
secs and then the IC quickly dies to the quiescent current on the
meter with no RF out.
>
> Switch back to 'tune' and 100w out . Switch back to 'Separate' and
again 100w for a few seconds and then it dies. etc. etc.
>
> I can hear the relay dropping in and out as per the VOX delay
setting which works OK. However, the VOX gain control has no effect at
all at min. or max. and doesn't seem to have any control over the relay.
>
> It,s as though the grid block bias has been temporarily removed (
key down) and then re-appears - quickly ascending until it blocks
the PA's even in key down position.
>
> Taken the TX off line and might get a chance to do a bit of
measuring in the next week or so and check the items mentioned by Gary
and Mike (C98 and CR16)
>
>
>
> Vic
> ----Original Message----
> From: k4oah@...
> Date: 06/02/2008 16:36
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>
>
>
>
>
>
>
>

> Vic -
>
> Make sure the CW Delay control is not set to minimum. Set to midrange
> to start.
>
> If OK, check C98
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
> Victor Waddington wrote:
> > Hello all
> > Bit of a problem here.
> > No matter how I adjust the VOX controls the Tx won't key in (CW)
> > until I am on maximum gain (20 past 12 o'clock) But in the 'Tune'
> > position I get 100w out around 10 to 12 o'clock.With the gain left in
> > that position the transmitter won't key until I increase it to
maximum.
> >
> > All the valves have been replaced with new and should be OK but it
did
> > the same with the old valves.
> >
> > So, briefly, any ideas why I should get 100w out on 'Tune' with
fairly
> > low gain but need max gain for the VOX to come in?
> >
> > Hope I've made myself clear!!
> >
> > Vic - G4JSS
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> > Yahoo! Groups Links
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> _____
> Get up to Â£150 by recycling your old mobile - visit
www.tiscali.co.uk/recycle
>
> [Non-text portions of this message have been removed]
>

_____
Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

683. RE: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-08 22:03:06 UTC
From: Walter Milton
Topic: 633 Message: 683

Steve,

I have ordered crystals from ICM for my TR4CW and I told them what I needed. The crystals arrived a week later and worked as if they were the original. I would send them back and tell them what frequency you need for your TR4.

Good luck,

Walt, KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Steve Matda
Sent: Friday, February 08, 2008 1:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

Well....I had my hopes dashed.

Just got the crystals in today for my TR-4C from ICM. They sent a 39.1 Mhz crystal for 10 meters. Great for a T-4. Great for an R-4. Not great for a TR-4C, which is supposed to be 42.5 Mhz.

The customer rep said "But our formula shows Fc + 11.1 Mhz".

sigh

Steve, KE4MOB

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "w5rkl" <w5rkl@...> wrote:
>
> If you go to International Crystal's website at the following
> link you'll see the list of manufacturers they have crystal
> information on. Just provide them with the make and model of
> the radio you want the crystal for along with the circuit
> the crystal goes in and they should be able to do the rest.
> Quite simple actually.
>
> http://www.icmfg.com/hamradio-manufacturers.html
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> ,

"Dave Vest, K8DV" <k8dv@> wrote:
> >
> > Hi Steve,
> >
> > Do you have the specs you used to order the xtal? That is most
> likely the best way to get one.
> >
> > Thanks,
> > Dave
> >
> > ---- Steve Matda <smatda@> wrote:
> > I'm having International Crystal grind me one...order
> > was placed yesterday. $20.
> >
> > BTW...same price for a crystal for the VFO to cover
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> > > a parts rig with a
> > > xtal still in it they are willing to part with that
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> > > think that all of the TR-3 and 4's all use the same
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> > Never miss a thing. Make Yahoo your home page.
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>

[Non-text portions of this message have been removed]

684. T-4x problem on 80 and 40

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 03:45:56 UTC
From: d104_1
Topic: 684 Message: 684

I have a T-4X that has a driver tuning problem on 80 and 40 meters. The plate current only peaks when the driver is tuned to the frequency of the 5.645 MHz crystal oscillator. The driver tunes properly on the other bands.

I tried shorting the cathode resistor of the pre-mixer (V8) to ground and measuring the voltage on the grid with my vtvm. I get -1.5 to -2.0 volts depending on the band. In fact I get -2.0 volts on 40 meters which will not tune properly, and only -1.5 volts on 20 meters which does tune properly.

Any ideas on the remedy would be appreciated.

Francis

685. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 05:22:30 UTC
From: Don
Topic: 673 Message: 685

First, thanks to everyone here for the advice and support ! again all I can say is that we do have a lot of very helpful people here !
After looking over a couple of ways to do it, I have decided to go the way of having all new members place on moderation status.
If I am able to confirm a call sign I will remove moderation status when I approve the membership. Otherwise I will wait until their first post before I do so.
We do have a few members where english is not their primary language, so I do not want to automatically reject a request to join, But this will allow them a good chance to be here while at the same time helping to further protect our group from unwanted spam.

Also, I think it would be a good idea to have one or two co-owners / moderators here just in case anything should either happen to me or my ability to access the net. This would only be for a have-to, back-up situation and not for taking on any current workload. If you own and/or moderate on other groups and would be willing to help with that, please e-mail direct with your info. to: drfrasher at pmt dot org I would hate to have our group fall apart like the old one did.

Thanks,
Don
AD7LL

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Friday, February 08, 2008 10:05 AM
Subject: Re: [DrakeRadio] Gorgeous.....Moderator

Don -

You might consider what I do on groups that I moderate.

Set options so ALL new members are moderated. When their first post
appears, you receive an email from YAHOO, then you evaluate and either
allow or deny the post and then change their posting status at the same
time.

This eliminates the "drive-bys" and NOTHING goes out until you see that
they "belong" in the group.

Thanks for maintaining an excellent group!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Don wrote:
> Certainly I good idea that I will probably go to. We started this group over a year an half ago in response to the
> the other drake group's owner disappeared, and was flooded with spam. Your suggestion should further that goal
> against spam while keeping the group as open as possible.
> We have been slowly growing since we started, and for those who haven't checked the our groups homepage in
> while, we are at 177 members, and increasing in activity. We have some very good people here, great examples to
> the true spirit of Ham Radio!. So I hope to continue to keep the spam to an absolute minimun while mainting a free
> and open forum for us.
>
> Don
> AD7LL
>
>

[Non-text portions of this message have been removed]

686. Re: [DrakeRadio] T-4x problem on 80 and 40

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 05:47:59 UTC
From: Garey Barrell
Topic: 684 Message: 686

Francis -

What happens if you try and transceive with RCVR control with the pair cabled together. Sounds like your Band crystals are not oscillating on 80 or 40M.

The PTO is feeding through at 4955 to 5455 depending upon dial setting and the Carrier Oscillator is running at 5645 so the mixer is seeing both and sending them on!

You may have bad crystals, or Q3 is getting tired. You can swap the crystals from the receiver to check.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

d104_1 wrote:
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> The plate current only peaks when the driver is tuned to the frequency
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> volts depending on the band. In fact I get -2.0 volts on 40 meters
> which will not tune properly, and only -1.5 volts on 20 meters which
> does tune properly.
>
> Any ideas on the remedy would be appreciated.
>
> Francis
>
>
>

687. Re: [DrakeRadio] Gorgeous.....Moderator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 05:49:25 UTC
From: Garey Barrell
Topic: 673 Message: 687

Don -

I'd be willing to take a sub role if you don't get any better offers! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Don wrote:
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>
> Thanks,
> Don
> AD7LL
>
>
>

688. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 16:18:04 UTC
From: Dan Galligan
Topic: 660 Message: 688

Alright group, here are the results of putting it on my friend's Palstar dummy load..... No significant changes. On 20M, the load control is still fully clockwise, and on 40M it is still fully counterclockwise, but still tunes up on 75/80, pretty well. Only difference is in the watt meter reading, showing about 140 out on 75/80M, and only about 80-85 out on 20M, with 40 somewhere in between. I apparently didn't write down the meter reading from 40M, but I think it was between 110 and 120 watts out.
All this tells me two things. First, the Daiwa watt meter, as suspected, is GROSSLY inaccurate, and secondly, the problem must be in the radio. Should I be looking at specific tubes? Maybe the finals? Or, is there another something, I should be looking at, as the cause? It seems to tell me that the transmitter, at least, maybe needs an alignment. Is there some area I should be looking at, specifically? Maybe something I could solve without paying for a complete re-alignment?
Thanks for all of your help.
Dan
W3RXO

689. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 16:47:36 UTC
From: Garey Barrell
Topic: 660 Message: 689

Dan -

OK, that makes more sense.

First thing, I assume that the RF TUNE control is peaking in the appropriate sector of its' dial, i.e., 20M, and not 40M or somewhere else......

Check the neutralization on 15M.

If so, there is something wrong with the Pi-Net. The LOAD control should be in the 4-5 range of its' scale. The third section of the LOAD capacitor should be switched OUT on 20M by the BANDSWITCH. A close visual inspection of Section S4-G, the next-to-last one is next. First check for shorts between fixed contacts and capacitor leads, it's pretty tight in there. Sometimes the switch mounting hardware allows the wafers to rotate slightly, misaligning the various sections. Then make sure that the wiper blade clears the last fixed contact with something connected to it. The wiper of this switch should not be making contact with any fixed contact other than the "common" one on 20M.

A quick run-through of the RF Mixer and INJ trimmers might get a little more, but the 20M problem indicates too much LOAD capacitance on the output of the P-Net.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Dan Galligan wrote:
> Alright group, here are the results of putting it on my friend's Palstar dummy load..... No significant changes. On 20M, the load control is still fully clockwise, and on 40M it is still fully counterclockwise, but still tunes up on 75/80, pretty well. Only difference is in the watt meter reading, showing about 140 out on 75/80M, and only about 80-85 out on 20M, with 40 somewhere in between. I apparently didn't write down the meter reading from 40M, but I think it was between 110 and 120 watts out.
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> Thanks for all of your help.
> Dan
> W3RXO

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> Yahoo! Groups Links
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690. Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 19:57:34 UTC
From: w5rkl
Topic: 660 Message: 690

Here's something I just thought of. The T4XB's manual has a maintenance section that discusses the RF and MIXER slug measurements. As you rotate the RF TUNE control on the front panel, a set of slugs move into and out of the RF and MIXER transformers, adjusting the coils to resonance. With the RF TUNE control set a its clockwise stop, the top of each slug must be a certain distance above the top of the coil form. Check your manual's maintenance section for further details. If the slug distance is not correct then the output will be affected. Check each band as outlined in the maintenance section of the manual.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Dan -
>
> OK, that makes more sense.
>
> First thing, I assume that the RF TUNE control is peaking in the
> appropriate sector of its' dial, i.e., 20M, and not 40M or somewhere
> else......
>
> Check the neutralization on 15M.
>
> If so, there is something wrong with the Pi-Net. The LOAD control
> should be in the 4-5 range of its' scale. The third section of the
LOAD
> capacitor should be switched OUT on 20M by the BANDSWITCH. A close
> visual inspection of Section S4-G, the next-to-last one is next. First
> check for shorts between fixed contacts and capacitor leads, it's
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> wafers to rotate slightly, misaligning the various sections. Then make
> sure that the wiper blade clears the last fixed contact with something
> connected to it. The wiper of this switch should not be making contact
> with any fixed contact other than the "common" one on 20M.
>
> A quick run-through of the RF Mixer and INJ trimmers might get a little
> more, but the 20M problem indicates too much LOAD capacitance on the
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>
> 73, Garey - K4OAH

> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
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> Dan Galligan wrote:
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> > Thanks for all of your help.
> > Dan
> > W3RXO
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> > Yahoo! Groups Links
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>

691. Re: [DrakeRadio] Re: T-4XB tune up problem? Or is it?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 22:03:22 UTC
From: Garey Barrell
Topic: 660 Message: 691

Possible, but be _VERY_ careful that you have the right measurement for the color slugs in your transmitter and _EXTRA_ careful in measuring before adjusting those slugs individually. I have seen very few cases where they were wrong, and it was obvious someone had been "fixing" them... :-)

On the other hand, the measurements for each band that Mike is talking about are just a more accurate way of setting the RF TUNE control to the proper position before alignment. Sometimes you have to "cheat" a little on 10M to leave any compression on the trimmer caps. It's a good idea to put a little clear fingernail polish on the adjusters for 10 and 15 since they are often so close to minimum that there is hardly any tension on the adjustment and the slightest bump will knock it off resonance.

ALSO.... Do NOT use a metal alignment tool on the trimmers. Even a momentary short between the trimmer and the chassis will damage and even destroy R44. If you use a metal screwdriver, slip some shrink tubing over the shank to cover all but the very tip of the blade.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
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> 73
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> W5RKL
>
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>
>> Dan -

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>
>>> Thanks for all of your help.
>>> Dan
>>> W3RXO
>>>
>>>
>

692. Re: T-4x problem on 80 and 40

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 22:29:00 UTC
From: d104_1
Topic: 684 Message: 692

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:

> What happens if you try and transceive with RCVR control with the pair
> cabled together. Sounds like your Band crystals are not oscillating on
> 80 or 40M.
>

I cabled together the receiver and transmitter and tried to transceive
with RCVR control. As before, the plate current peaks when the driver
is tuned well below the 40m area.

However, I do hear an increase in signal in the receiver within the
40m area of the driver control.

Francis

693. Re: [DrakeRadio] Re: T-4x problem on 80 and 40

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-09 23:14:49 UTC
From: Garey Barrell
Topic: 684 Message: 693

Francis -

OK.

Transceive operation under RCVR control "should" eliminate the PTO, Band Oscillator and Premixer.

You may just have a BAD misalignment, since transceiving with RCVR control turns OFF the Premixer signal in the transmitter and injects the signal from the receiver. Under Receiver control, the Premix signal from the Receiver is injected, effectively eliminating the PTO, Band Oscillator and PreMixer stages as the problem. Under Transmitter control, this signal comes from the secondary of T5 in the transmitter and is coupled to the mixer via C150 to the "bottom" of the secondary of T3. The SSB signal at 5.645 MHz is applied to the primary of T3 and the mixer output taken from the plate circuit of V3 is at the output frequency. This circuit is the same on all bands, so is not likely the problem.

If you have a general coverage receiver, you can listen for the critical signals at 5.455 MHz (PTO set at 0.0), 18.1 MHz (Band Oscillator for 40M), and the PreMixer output frequency of 12.645 MHz. On 80M, you should find 5.455 MHz (PTO at 0.0), 14.6 MHZ (Band Oscillator for 80M), and the Premixer output frequency of 9.145 MHz.

IF these signals are all present, then their level becomes suspect, and/or the coupling to the Mixer at V3.

Can you measure the frequency of the signal that you ARE getting out when the transmitter is operating on 80 and / or 40M??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

d104_1 wrote:
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
>> What happens if you try and transceive with RCVR control with the pair
>> cabled together. Sounds like your Band crystals are not oscillating on
>> 80 or 40M.
>>
>>
>

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> with RCVR control. As before, the plate current peaks when the driver
> is tuned well below the 40m area.
>
> However, I do hear an increase in signal in the receiver within the
> 40m area of the driver control.
>
> Francis
>
>

694. TR-4Cw RIT Finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-10 03:38:08 UTC
From: Richard Arland, W3OSS
Topic: 694 Message: 694

Gang:

I have low power output on all bands. Looks like I have a set of soft finals. Some time in the past someone on this list is talked about replacement final tubes that were NOT 6JB6s. Does anyone remember this? If so, what were the replacement tubes? I would like to get a new set of finals and get this old gal back on the air.

Failing that, what is the current price on a matched set of three 6JB6s and where does one get them?

Tnx for the bandwidth.

Rich W3OSS

695. Re: [DrakeRadio] TR-4Cw RIT Finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-10 04:10:17 UTC
From: Garey Barrell
Topic: 694 Message: 695

Rich -

6GJ5. Same tube as 6JB6 except G3 suppressor is tied to cathode internally instead of being brought out to pin. Not significant in grounded cathode, AB1 linear service. Drop in replacement.

Brand caveats apply, Sylvania, Zenith, RCA or GE in that order. Same as 6JB6. Other brands MAY work, but these work every time. Sylvania is the only manufacturer that characterized and published data for Class AB1 linear operation.

Matched pairs are best, but three new tubes of same manufacturer are close enough. RF Parts used to have matched trios, other tube dealers may not know how to match. Drake matched for same idle current at fixed bias, no fancy dynamic balancing.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Richard Arland, W3OSS wrote:
> Gang:
>
> I have low power output on all bands. Looks like I have a set of soft
> finals. Some time in the past someone on this list is talked about
> replacement final tubes that were NOT 6JB6s. Does anyone remember this? If
> so, what were the replacement tubes? I would like to get a new set of finals
> and get this old gal back on the air.
>
> Failing that, what is the current price on a matched set of three 6JB6s and
> where does one get them?
>
> Tnx for the bandwidth.
>
> Rich W3OSS
>
>
>

696. Re: TR-4Cw RIT Finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-10 21:55:12 UTC
From: w5rkl
Topic: 694 Message: 696

The link below is an interesting article about substituting
a 6JU6 sweep tube for the 6JB6. I wonder if the same problems
the articles points out will occur with a 6BJ5 sweep tube?

http://www.wb4hfn.com/DRAKE/DrakeArticles/Final_Tubes.htm

I would stick with the 6JB6 tubes as that is what the Drake
TR and T4 series transmitters were designed for. Just my 2 cents
worth.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Rich -
>
> 6GJ5. Same tube as 6JB6 except G3 suppressor is tied to cathode
> internally instead of being brought out to pin. Not significant in
> grounded cathode, AB1 linear service. Drop in replacement.
>
> Brand caveats apply, Sylvania, Zenith, RCA or GE in that order. Same
> as 6JB6. Other brands MAY work, but these work every time. Sylvania
> is the only manufacturer that characterized and published data for
Class
> AB1 linear operation.
>
> Matched pairs are best, but three new tubes of same manufacturer are
> close enough. RF Parts used to have matched trios, other tube dealers
> may not know how to match. Drake matched for same idle current at
fixed
> bias, no fancy dynamic balancing.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Richard Arland, W3OSS wrote:
> > Gang:
> >
> > I have low power output on all bands. Looks like I have a set of soft

> > finals. Some time in the past someone on this list is talked about
> > replacement final tubes that were NOT 6JB6s. Does anyone remember
this? If
> > so, what were the replacement tubes? I would like to get a new set
of finals
> > and get this old gal back on the air.
> >
> > Failing that, what is the current price on a matched set of three
6JB6s and
> > where does one get them?
> >
> > Tnx for the bandwidth.
> >
> > Rich W3OSS
> >
> >
> >
>

697. Re: [DrakeRadio] Re: TR-4Cw RIT Finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-10 22:29:04 UTC
From: Garey Barrell
Topic: 694 Message: 697

Mike -

What Ron wrote is quite true for most of the alleged substitutes out there.

There is one major difference in all the others and the 6GJ5. It is literally _identical_ to the 6JB6 in all specifications with the exception of the G3 internal connection. There is a fractional pF difference in the plate capacitance because of this.

The problem with the 6JU6 and others is that the interelectrode capacitances are 50 to 100% higher than the 6GJ/JB6, which put it outside the relatively small range of the neutralization network in the Drake.

The 6GJ5 works just like the 6JB6, including neutralization and 10M operation _IF_ you stick with the "good" brands. The tubes were all designed for operation at 16 kHz, but _some_ brands (the same ones that work consistently in 6JB6s, i.e., Sylvania, Zenith, RCA & GE) work just fine up to 54 MHz in Class AB1 linear service.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> The link below is an interesting article about substituting
> a 6JU6 sweep tube for the 6JB6. I wonder if the same problems
> the articles points out will occur with a 6BJ5 sweep tube?
>
> http://www.wb4hfn.com/DRAKE/DrakeArticles/Final_Tubes.htm
>
> I would stick with the 6JB6 tubes as that is what the Drake
> TR and T4 series transmitters were designed for. Just my 2 cents
> worth.
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Rich -
>>
>> 6GJ5. Same tube as 6JB6 except G3 suppressor is tied to cathode

>> internally instead of being brought out to pin. Not significant in
>> grounded cathode, AB1 linear service. Drop in replacement.
>>
>> Brand caveats apply, Sylvania, Zenith, RCA or GE in that order. Same
>> as 6JB6. Other brands MAY work, but these work every time. Sylvania
>> is the only manufacturer that characterized and published data for
>>
> Class
>
>> AB1 linear operation.
>>
>> Matched pairs are best, but three new tubes of same manufacturer are
>> close enough. RF Parts used to have matched trios, other tube dealers
>> may not know how to match. Drake matched for same idle current at
>>
> fixed
>
>> bias, no fancy dynamic balancing.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B & C-Line Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> Richard Arland, W3OSS wrote:
>>
>>> Gang:
>>>
>>> I have low power output on all bands. Looks like I have a set of soft
>>> finals. Some time in the past someone on this list is talked about
>>> replacement final tubes that were NOT 6JB6s. Does anyone remember
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> this? If
>
>>> so, what were the replacement tubes? I would like to get a new set
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> of finals
>
>>> and get this old gal back on the air.
>>>
>>> Failing that, what is the current price on a matched set of three
>>>
> 6JB6s and
>
>>> where does one get them?
>>>
>>> Tnx for the bandwidth.

```
>>>
>>> Rich W3OSS
>>>
```

698. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-11 02:12:35 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 698

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

699. Re: T-4x problem on 80 and 40

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-11 02:58:02 UTC
From: d104_1
Topic: 684 Message: 699

First I would like to say that I appreciate the opportunity to discuss the problem with someone who has experience in working on Drake equipment.

I connected a frequency counter to the cathode of the 6HS6 premixer and the 5.455 MHz (PTO at 0) frequency is there on all bands. Moving the counter probe to the grid of the premixer, the correct band oscillator frequencies are present on each band (80m 14.6 MHZ, 40m 18.1 MHz, 20m 25.1 MHZ, 15m 32.1 MHZ, and 10m 39.6 MHZ).

The counter was moved to the bottom of T3(where a 1.5K resistor connects to ground). On 80m the counter showed the band oscillator frequency (14.6 MHz), and on 40m it also registered the band oscillator frequency (18.1 MHz). The other bands had the correct premixer output frequencies (20m 19.645, 15m 26.645, and 10m 34.145).

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:

> OK.
>
> Transceive operation under RCVR control "should" eliminate the PTO, Band
> Oscillator and Premixer.
>
> You may just have a BAD misalignment, since transceiving with RCVR
> control turns OFF the Premixer signal in the transmitter and injects the
> signal from the receiver. Under Receiver control, the Premix signal
> from the Receiver is injected, effectively eliminating the PTO, Band
> Oscillator and PreMixer stages as the problem. Under Transmitter
> control, this signal comes from the secondary of T5 in the transmitter
> and is coupled to the mixer via C150 to the "bottom" of the secondary of
> T3. The SSB signal at 5.645 MHz is applied to the primary of T3 and the
> mixer output taken from the plate circuit of V3 is at the output
> frequency. This circuit is the same on all bands, so is not likely the
> problem.
>
> If you have a general coverage receiver, you can listen for the critical
> signals at 5.455 MHz (PTO set at 0.0), 18.1 MHz (Band Oscillator for
> 40M), and the PreMixer output frequency of 12.645 MHz. On 80M, you
> should find 5.455 MHz (PTO at 0.0), 14.6 MHZ (Band Oscillator for 80M),
> and the Premixer output frequency of 9.145 MHz.
>
> IF these signals are all present, then their level becomes suspect,

> and/or the coupling to the Mixer at V3.
>
> Can you measure the frequency of the signal that you ARE getting out
> when the transmitter is operating on 80 and / or 40M??
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> d104_1 wrote:
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >
> > >> What happens if you try and transceive with RCVR control with the
pair
> > >> cabled together. Sounds like your Band crystals are not
oscillating on
> > >> 80 or 40M.
> > >>
> > >>
> > >
> > > I cabled together the receiver and transmitter and tried to transceive
> > > with RCVR control. As before, the plate current peaks when the driver
> > > is tuned well below the 40m area.
> > >
> > > However, I do hear an increase in signal in the receiver within the
> > > 40m area of the driver control.
> > >
> > > Francis
> > >
> > >
>

700. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-11 16:59:32 UTC
From: Victor Waddington
Topic: 606 Message: 700

Hello again
Still on with saga of this Tx. Turns out it doesn't appear to be C98 afterall. Now getting the correct reading of about 820 ohm
Yep, you've guessed - no different - still won't key (CW) but still gives 100w on 'Tune' VOX delay works fine (Gain knob pulled out for VOX)
The relay (K1)is marked on the cct. as 15K and the relay also carries a marking of 15K. Take the relay out and the coil is near enough 15K put it back in and measure the 250v line from pin 6 of V10b through the relay to pin 11 on the plug and I get nearly 20K - with or without the valve fitted. I cannot see anything on that circuit which would give me that increase.
However, I am not the worlds greatest circuit reader having come last in that Olympic event.
Any ideas, please.

Vic

701. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-11 20:26:35 UTC
From: w5rkl
Topic: 606 Message: 701

Vic,

Have you looked at the grid of V10B, VOX control tube? With the
T4XC in CW mode, closing the key should produce a pulse at the
grid of V10B, pin 7. If this pulse does not appear at the grid,
pin 7, of V10B, then V10B, vox control tube, will not conduct and
the relay will not energize in CW mode. This pulse is generated
by CR16 and C115. This is discussed on page 4-2 of the T4XC's
manual.

I would also verify V3 and V4's grid bias voltage changes when the
CW key is pressed. This is also discussed in the manual no page 4-2.

Just some thoughts.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hello again
> Still on with saga of this Tx. Turns out it doesn't appear to be C98
> afterall. Now getting the correct reading of about 820 ohm
> Yep, you've guessed - no different - still won't key (CW) but still
> gives 100w on 'Tune' VOX delay works fine (Gain knob pulled out for
> VOX)
> The relay (K1)is marked on the cct. as 15K and the relay also carries
> a marking of 15K. Take the relay out and the coil is near enough 15K
> put it back in and measure the 250v line from pin 6 of V10b through the
> relay to pin 11 on the plug and I get nearly 20K - with or without the
> valve fitted. I cannot see anything on that circuit which would give me
> that increase.
> However, I am not the worlds greatest circuit reader having come last
> in that Olympic event.
> Any ideas, please.
>
> Vic
>

702. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-11 20:51:51 UTC
From: Garey Barrell
Topic: 606 Message: 702

Vic -

The Mic Amp stage is converted to an audio oscillator in TUNE and CW modes. In TUNE the audio tone is applied to the VOX and Mic input to key the transmitter and generate a steady carrier. Like whistling into the mike.! If the TUNE mode is working, then the oscillator is running, at least in TUNE.

In CW the same tone is applied to the VOX and to the Sidetone Amp to key the transmitter and generate the sidetone. There is a diode-capacitor network to "kick" the relay closed, and this is what causes the VOX relay to close briefly and then drop out if the sidetone is not present.

So the only real difference between VOX operation on TUNE or CW mode is a few switch terminals and R73, the CW Delay control. If this control is turned all the way "down", the VOX will not pull in on CW, but work fine on TUNE or SSB. I have seen a few cases where this control has shorted from the resistance element to ground via the case.

As far as the relay... The circuit is the same with the exception of the CW Delay pot though, so if it works in TUNE, it should work in CW. The problem is not with the relay itself. The original relay in the T-4XC was a Varley, with a 15k ohm coil. They are prone to failure because of the extremely fine wire required to achieve that high impedance. The expansion and contraction with temperature changes (from cold storage to 10 minute transmission!) is enough to break the wire. Humidity is also a problem because the coil bobbin will swell. They're fine as long as they work. The replacment is the same relay used in all the other plug-in Drake 4 Line units, a TYCO with a 2.5k ohm coil. The only modification is a 1.5k ohm 1W resistor added in series with the relay coil and plug it in.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B & C-Line Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello again
> Still on with saga of this Tx. Turns out it doesn't appear to be C98
> afterall. Now getting the correct reading of about 820 ohm
> Yep, you've guessed - no different - still won't key (CW) but still
> gives 100w on 'Tune' VOX delay works fine (Gain knob pulled out for
> VOX)
> The relay (K1)is marked on the cct. as 15K and the relay also carries
> a marking of 15K. Take the relay out and the coil is near enough 15K

> put it back in and measure the 250v line from pin 6 of V10b through the
> relay to pin 11 on the plug and I get nearly 20K - with or without the
> valve fitted. I cannot see anything on that circuit which would give me
> that increase.
> However, I am not the worlds greatest circuit reader having come last
> in that Olympic event.
> Any ideas, please.
>
> Vic
>
>
>
>

703. Fw: [drakelist] FINALLY !!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-12 05:30:56 UTC
From: Don
Topic: 703 Message: 703

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: "Drakelist" <drakelist@...>
Sent: Monday, February 11, 2008 3:03 PM
Subject: [drakelist] FINALLY !!

Garey Barrell <k4oah@...> made an utterance to the drakelist gang
---

The long promised CDs for the TR-4 and the TR-4C/Cw/CwRIT are finally done.

If I knew then what I know now.... :-)

Anyway, they are ready. Full information and samples are at my web page.

<www.k4oah.com>

Hopefully all the people who have been asking "when" , will remember
why they wanted one. Or the other... Or both?

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, 4-C Line and TR-4/C Service Supplement CDs
<www.k4oah.com>

Submissions: drakelist@...
Unsubscribe: majordomo@... - unsubscribe drakelist in body
Hopelessly Lost: majordomo@... - help in body of message
Zerobeat Web Page: www.zerobeat.net - sponsored by www.tlchost.net
---

704. k1 relay for t4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-12 06:23:31 UTC
From: reab1021
Topic: 704 Message: 704

I once got a transmit/receive relay from Mouser for my TR4C I now have a T4 does it use the same relay? It's been a long time and I wonder if anyone knows if Mouser still carries it. Dayton

705. RE: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-12 14:04:19 UTC
From: Steve Matda
Topic: 633 Message: 705

ICM went out of their way to make this right. They
admitted they used the wrong formula (oops) and are
replacing the crystal gratis with a ship date of
Friday 2-15. And they told me to trash the old one.

So if anybody wants or needs a 39.1 Mhz crystal...I've
got one, and I'll let it go for free. If nobody wants
it, it'll go off to eBayland.

Please contact me off list at smatda@... if you
want it.

Thanks,

Steve, KE4MOB

--- Walter Milton <wmilton@...> wrote:

> Steve,
>
>
>
> I have ordered crystals from ICM for my TR4CW and I
> told them what I
> needed. The crystals arrived a week later and
> worked as if they were the
> original. I would send them back and tell them what
> frequency you need for
> your TR4.
>
>
>
> Good luck,
>
> Walt, KA2NJF
>
>
>
> From: DrakeRadio@yahoogroups.com
> [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Steve Matda
> Sent: Friday, February 08, 2008 1:07 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed
>
>

>
> Well....I had my hopes dashed.
>
> Just got the crystals in today for my TR-4C from
> ICM. They sent a
> 39.1 Mhz crystal for 10 meters. Great for a T-4.
> Great for an R-4.
> Not great for a TR-4C, which is supposed to be 42.5
> Mhz.
>
> The customer rep said "But our formula shows Fc +
> 11.1 Mhz".
>
> *sigh*
>
> Steve, KE4MOB
>
> --- In DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com> ,
> "w5rkl" <w5rkl@...> wrote:
> >
> > If you go to International Crystal's website at
> the following
> > link you'll see the list of manufacturers they
> have crystal
> > information on. Just provide them with the make
> and model of
> > the radio you want the crystal for along with the
> circuit
> > the crystal goes in and they should be able to do
> the rest.
> > Quite simple actually.
> >
> > http://www.icmfg.com/hamradio-manufacturers.html
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com> ,
> "Dave Vest, K8DV" <k8dv@> wrote:
> > >
> > > Hi Steve,
> > >
> > > Do you have the specs you used to order the
> xtal? That is most
> > likely the best way to get one.
> > >

> > > Thanks,
> > > Dave
> > >
> > > ---- Steve Matda <smatda@> wrote:
> > > I'm having International Crystal grind me
> one...order
> > > was placed yesterday. $20.
> > >
> > > BTW...same price for a crystal for the VFO to
> cover
> > > 28-28.5 Mhz...$20. Makes me wonder about that
> recent
> > > eBay auction where someone paid $40...
> > >
> > > Steve, KE4MOB
> > >
> > >
> > > --- Dave Vest <k8dv@> wrote:
> > >
> > > > Hi to the group,
> > > >
> > > > Working on a TR-4c and the 9 MHz xtal has
> drifted
> > > > off freq and cannot
> > > > be adjusted to spec with the trimmer. Have not
> > > > tried padding the xtal
> > > > as of yet but may give that a try. So if
> anyone has
> > > > a parts rig with a
> > > > xtal still in it they are willing to part with
> that
> > > > would be great. I
> > > > think that all of the TR-3 and 4's all use the
> same
> > > > xtal.
> > > >
> > > > Thanks,
> > > >
> > > > Dave, K8DV
> > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> >
>

> > > Never miss a thing. Make Yahoo your home page.
> > > http://www.yahoo.com/r/hs

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> [Non-text portions of this message have been
> removed]
>
>

Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

706. RE: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-12 17:23:17 UTC
From: Steve Matda
Topic: 633 Message: 706

Crystal has been spoken for!

Steve.

--- Steve Matda <smatda@...> wrote:

> ICM went out of their way to make this right. They
> admitted they used the wrong formula (oops) and are
> replacing the crystal gratis with a ship date of
> Friday 2-15. And they told me to trash the old one.
>
> So if anybody wants or needs a 39.1 Mhz
> crystal...I've
> got one, and I'll let it go for free. If nobody
> wants
> it, it'll go off to eBayland.
>
> Please contact me off list at smatda@... if
> you
> want it.
>
> Thanks,
>
> Steve, KE4MOB
>
>
> --- Walter Milton <wmilton@...> wrote:
>
> > Steve,
> > >
> > >
> > >
> > I have ordered crystals from ICM for my TR4CW and
> I
> > told them what I
> > needed. The crystals arrived a week later and
> > worked as if they were the
> > original. I would send them back and tell them
> what
> > frequency you need for
> > your TR4.
> > >
> > >
> > >
> > Good luck,
> > >

> > Walt, KA2NJF
> >
> >
> >
> > From: DrakeRadio@yahoogroups.com
> > [mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of Steve Matda
> > Sent: Friday, February 08, 2008 1:07 PM
> > To: DrakeRadio@yahoogroups.com
> > Subject: [DrakeRadio] Re: TR-4 - 9 MHz xtal needed
> >
> >
> >
> > Well....I had my hopes dashed.
> >
> > Just got the crystals in today for my TR-4C from
> > ICM. They sent a
> > 39.1 Mhz crystal for 10 meters. Great for a T-4.
> > Great for an R-4.
> > Not great for a TR-4C, which is supposed to be
> 42.5
> > Mhz.
> >
> > The customer rep said "But our formula shows Fc +
> > 11.1 Mhz".
> >
> > *sigh*
> >
> > Steve, KE4MOB
> >
> > --- In DrakeRadio@yahoogroups.com
> > <mailto:DrakeRadio%40yahoogroups.com> ,
> > "w5rkl" <w5rkl@...> wrote:
> > >
> > > If you go to International Crystal's website at
> > the following
> > > link you'll see the list of manufacturers they
> > have crystal
> > > information on. Just provide them with the make
> > and model of
> > > the radio you want the crystal for along with
> the
> > circuit
> > > the crystal goes in and they should be able to
> do
> > the rest.
> > > Quite simple actually.
> > >
> > > http://www.icmfg.com/hamradio-manufacturers.html
> > >

> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > > --- In DrakeRadio@yahoogroups.com
> > <mailto:DrakeRadio%40yahoogroups.com> ,
> > "Dave Vest, K8DV" <k8dv@> wrote:
> > > >
> > > > Hi Steve,
> > > >
> > > > Do you have the specs you used to order the
> > xtal? That is most
> > > likely the best way to get one.
> > > >
> > > > Thanks,
> > > > Dave
> > > >
> > > > ---- Steve Matda <smatda@> wrote:
> > > > I'm having International Crystal grind me
> > one...order
> > > > was placed yesterday. $20.
> > > >
> > > > BTW...same price for a crystal for the VFO to
> > cover
> > > > 28-28.5 Mhz...$20. Makes me wonder about that
> > recent
> > > > eBay auction where someone paid $40...
> > > >
> > > > Steve, KE4MOB
> > > >
> > > >
> > > > --- Dave Vest <k8dv@> wrote:
> > > >
> > > > > Hi to the group,
> > > > >
> > > > > Working on a TR-4c and the 9 MHz xtal has
> > drifted
> > > > > off freq and cannot
> > > > > be adjusted to spec with the trimmer. Have
> not
> > > > > tried padding the xtal
> > > > > as of yet but may give that a try. So if
> > anyone has
> > > > > a parts rig with a
> > > > > xtal still in it they are willing to part
> with
> > that
> > > > > would be great. I
> > > > > think that all of the TR-3 and 4's all use

> the
> > same
> > > > > > xtal.
> > > > > >
> > > > > > Thanks,
> > > > > > >
> > > > > > > Dave, K8DV
> > > > > > >
> > > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > >
> > >
>

> > > > > Never miss a thing. Make Yahoo your home page.
>
> > > > > http://www.yahoo.com/r/hs
> > > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been
> > > removed]
> > >
> > >
>
>
>
>
>

> Never miss a thing. Make Yahoo your home page.
> http://www.yahoo.com/r/hs
>
>

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

707. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-13 21:11:12 UTC
From: Garey Barrell
Topic: 99 Message: 707

Unique supplemental service information CDs available for the Drake TR-4, TR-4C, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

708. Re: [DrakeRadio] FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-13 21:24:44 UTC
From: Don
Topic: 99 Message: 708

Thanks Garey for the time and effort that you have put into this, and for making it available for us.
Don
ad7ll

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 13, 2008 2:11 PM
Subject: [DrakeRadio] FS: Unique Drake Service Information

Unique supplemental service information CDs available for the Drake TR-4, TR-4C, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

709. Re: FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-15 09:25:23 UTC
From: Victor Waddington
Topic: 99 Message: 709

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Unique supplemental service information CDs available for the Drake
>Hi Garey
Every time I try that link I am told the page cannot be found so
haven't been able to look up the purchase details. Is it temporarily
off line?

Vic

TR-4, TR-4C, B and C Lines and the 2-B receiver.
>
> These CDs are NOT just scans of the original manuals that were
included
> with the equipment when new.
>
> While high resolution scans of the original manuals ARE on the CDs,
what
> they really offer is high resolution color photos of the under
chassis
> and individual PC boards of each unit with all parts identified and
> keyed to a parts list. This information is not available elsewhere
and
> really makes a difference in servicing these units. Samples of
these
> pages (at reduced resolution) and purchase information are at
> <www.k4oah.com>.
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>

710. Re: [DrakeRadio] Re: FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-15 14:19:02 UTC
From: Garey Barrell
Topic: 99 Message: 710

Vic -

I don't know why you are having a problem... I just tried it and came
right up. So far as I know its been working all along.

<www.k4oah.com>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Unique supplemental service information CDs available for the Drake
>> Hi Garey
>>
> Every time I try that link I am told the page cannot be found so
> haven't been able to look up the purchase details. Is it temporarily
> off line?
>
> Vic
>
>
>
>
> TR-4, TR-4C, B and C Lines and the 2-B receiver.
>
>> These CDs are NOT just scans of the original manuals that were
>>
> included
>
>> with the equipment when new.
>>
>> While high resolution scans of the original manuals ARE on the CDs,
>>
> what
>
>> they really offer is high resolution color photos of the under
>>
> chassis
>
>> and individual PC boards of each unit with all parts identified and
>> keyed to a parts list. This information is not available elsewhere

>>
> and
>
>> really makes a difference in servicing these units. Samples of
>>
> these
>
>> pages (at reduced resolution) and purchase information are at
>> <www.k4oah.com>.
>>
>> --
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

711. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-16 22:39:49 UTC
From: Garey Barrell
Topic: 99 Message: 711

Unique supplemental service information CDs available for the Drake 2-B receiver, the B and C Lines, The TR-4 and the TR-4C / Cw / CwRIT transceivers.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

712. Drake TR-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-22 04:24:09 UTC
From: hummerham
Topic: 712 Message: 712

Hi guys & gals. I know this is a long shot but I thought I'd ask. I am looking for a TR-6 in good to excellent condition. Anyone out there have one to sell or know of one for sale somewhere? I had one lined up but I think the seller is backing out of the deal. Any help would be appreciated. Thanks & 73. Butch...K3AFR

713. Re: [DrakeRadio] Drake TR-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-22 04:37:55 UTC
From: Jim Gerke
Topic: 712 Message: 713

There have been a couple on eBay recently. You might keep an eye out there.

73, Jim K5JG

hummerham wrote:
> Hi guys & gals. I know this is a long shot but I thought I'd ask. I am
> looking for a TR-6 in good to excellent condition. Anyone out there
> have one to sell or know of one for sale somewhere? I had one lined up
> but I think the seller is backing out of the deal. Any help would be
> appreciated. Thanks & 73. Butch...K3AFR
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

714. R7 Service Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-24 20:23:15 UTC
From: Paul McKee
Topic: 714 Message: 714

Hi All - I'm looking for a copy (Electronic is fine) of the R7 Service manual. Can anyone help?

73

Paul
G4EGJ

715. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-25 02:39:57 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 715

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

716. Re: R7 Service Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-02-25 15:43:08 UTC
From: va3mzb
Topic: 714 Message: 716

Lots of Owner and service Manuals on the link below

http://www.dproducts.be/Drake_Museum/manuals.htm

Hope this helps!!

73 de va3mzb

717. Feet for the TR-6 & MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-01 14:47:06 UTC
From: hummerham
Topic: 717 Message: 717

Hello to the Group. Would anyone have some extra original height feet for the 4/6-line that they would sell, or know a source for them? I need eight (8) 3/4" feet for a TR-6 and an MS-4. Thanks in advance for any help. Butch...K3AFR

718. Re: [DrakeRadio] Feet for the TR-6 & MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-02 20:20:17 UTC
From: Don
Topic: 717 Message: 718

Have you had any luck in finding these yet?

----- Original Message -----
From: hummerham
To: DrakeRadio@yahoogroups.com
Sent: Saturday, March 01, 2008 7:47 AM
Subject: [DrakeRadio] Feet for the TR-6 & MS-4

Hello to the Group. Would anyone have some extra original height feet
for the 4/6-line that they would sell, or know a source for them? I
need eight (8) 3/4" feet for a TR-6 and an MS-4. Thanks in advance
for any help. Butch...K3AFR

[Non-text portions of this message have been removed]

719. Re: [DrakeRadio] Feet for the TR-6 & MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-02 20:53:52 UTC
From: E Mccollough
Topic: 717 Message: 719

No not yet Don. You are the only person to respond to my post so far.. .... any thoughts?

Butch...K3AFR
k3afr@...

----- Original Message -----
From: Don
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 02, 2008 15:20
Subject: Re: [DrakeRadio] Feet for the TR-6 & MS-4

Have you had any luck in finding these yet?

----- Original Message -----
From: hummerham
To: DrakeRadio@yahoogroups.com
Sent: Saturday, March 01, 2008 7:47 AM
Subject: [DrakeRadio] Feet for the TR-6 & MS-4

Hello to the Group. Would anyone have some extra original height feet
for the 4/6-line that they would sell, or know a source for them? I
need eight (8) 3/4" feet for a TR-6 and an MS-4. Thanks in advance
for any help. Butch...K3AFR

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.21.3/1306 - Release Date: 3/1/2008 5:41 PM

[Non-text portions of this message have been removed]

720. Re: [DrakeRadio] Feet for the TR-6 & MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-02 21:34:40 UTC
From: Don
Topic: 717 Message: 720

I thought I had seen someone on the net who was making/molding them, however I could not find a link to him. It may have
actually been for some other equipment. If I can remember who it was I'll contact them about it and post it here. No luck so far though.
In the mean time I would keep an eye on all the usually places, ebay, qth.com, local hamfest, ect.
You might also check the "links" section of the lists' home page. I certainly may have overlooked something from one of those.
And of course, here still may be someone in the group here who may be able to help, but missed you first e-mail.
Best of luck ! and let us know here if you do find them.
Don
ad7ll

>Hello to the Group. Would anyone have some extra original height feet
>for the 4/6-line that they would sell, or know a source for them? I
>need eight (8) 3/4" feet for a TR-6 and an MS-4. Thanks in advance
>for any help. Butch...K3AFR

[Non-text portions of this message have been removed]

721. Re: [DrakeRadio] Feet for the TR-6 & MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-02 22:21:48 UTC
From: mdewey@allegiance.tv
Topic: 717 Message: 721

Watch eBay. I've seen the on there several times. You might Google "Drake Virtual Museum" as well. I think I may have seen the same guy advertising them on one of the links there. Hope you find what you are looking for. In a pinch, you might also look an Antique Electric Supply in Arizona. They carry a lot of plastic and rubber feet that wont be exact, but close.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

722. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-04 19:52:53 UTC
From: Garey Barrell
Topic: 99 Message: 722

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

723. Crystals needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-06 02:54:56 UTC
From: hummerham
Topic: 723 Message: 723

Would anyone have one or two 12.6 and/or 29.1 crystals for the T-4X and R-4A that they would sell? Or do you know where I could get them? I would like to be able to work 1.8-2.0, and also 18.0-18.5 mhz. Thanks to all. Butch...K3AFR...k3afr@...

724. Re: Crystals needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-06 04:12:31 UTC
From: w5rkl
Topic: 723 Message: 724

You can get both crystals from International Crystals in
Oklahoma City, Oklahoma. Their website link is provide
below.

http://www.icmfg.com/hamradio.html

You can call them using their 800 number and order the
crystals using a major credit card. Tell them the radio
manufacturer, Drake in this case, and the crystals you want
by frequency.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "hummerham" <k3afr@...> wrote:
>
> Would anyone have one or two 12.6 and/or 29.1 crystals for the T-4X and
> R-4A that they would sell? Or do you know where I could get them? I
> would like to be able to work 1.8-2.0, and also 18.0-18.5 mhz. Thanks
> to all. Butch...K3AFR...k3afr@...
>

725. Need emblem for MS-4 speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-09 22:19:38 UTC
From: Dean Hemphill
Topic: 725 Message: 725

I'm looking for the "MS-4" emblem that goes on the front panel of the MS-4 speaker. Anybody know where I can obtain one? A repro would be fine.

73,
Dean K5DH

726. Re: [DrakeRadio] Need emblem for MS-4 speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-09 22:49:44 UTC
From: mdewey@allegiance.tv
Topic: 725 Message: 726

Maize

Hey Dean,

Do a search on eBay for the guy that is selling the Drake front panels. It's Anthony Mills. I think his email is: kf8mw@...;

I think that is where I got some MS-4 labels.

Have a great weekend, what's left of it.

Mike

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

727. TR7 CW Offest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-09 23:14:55 UTC
From: Stephen C. Finch
Topic: 727 Message: 727

My TR7 transmits about 600 hz above the receiver frequency. I have checked the settings of the CW BFO and it is correct as is all other modes. It seems that the CW offset varactor is not set correctly. I have to adjust the RIT down 600 hz in order for the transmit and receive not require main dial adjustment.

Does anyone have experience here? Before I sent it out for alignment, I remember that I never had to do that.

Comments??

Steve
AIØW

[Non-text portions of this message have been removed]

728. Re: Need emblem for MS-4 speaker -- FOUND ONE.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-09 23:34:28 UTC
From: Dean Hemphill
Topic: 725 Message: 728

FOUND ONE. Universal Radio sells them for $6.95 plus postage.

--- In DrakeRadio@yahoogroups.com, "Dean Hemphill" <k5dh@...> wrote:
>
> I'm looking for the "MS-4" emblem that goes on the front panel of the
> MS-4 speaker. Anybody know where I can obtain one? A repro would be
> fine.
>
> 73,
> Dean K5DH
>

729. Re: [DrakeRadio] TR7 CW Offest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-10 01:52:54 UTC
From: Don
Topic: 727 Message: 729

This didn't happen until after having the radio aligned? Was it done by a business, or a ham friend ? Either way, I think the first thing to do is contact the person who did the alignment. they may have just had an off day, or may not be that familiar with the TR7 and its offset scheme for cw.
Since you sent it out to be done, would I be correct in assuming that you do not have the manual/equipment/experience to re-align the radio yourself?
If so, and the orginal tech is unable or unwilling to correct it, maybe some of us here can recommend a good Drake repair person for you.
Don

----- Original Message -----
From: Stephen C. Finch
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 09, 2008 5:14 PM
Subject: [DrakeRadio] TR7 CW Offest

My TR7 transmits about 600 hz above the receiver frequency. I have checked the settings of the CW BFO and it is correct as is all other modes. It seems that the CW offset varactor is not set correctly. I have to adjust the RIT down 600 hz in order for the transmit and receive not require main dial adjustment.

Does anyone have experience here? Before I sent it out for alignment, I remember that I never had to do that.

Comments??

Steve
AIØW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

730. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-10 02:50:17 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 730

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

731. Re: File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-10 20:51:54 UTC
From: hummerham
Topic: 206 Message: 731

In response to Don's (KE7FFM) invitation I would like to introduce myself to the group. My name is Eden (Butch) McCollough, call sign K3AFR. I live in Western Pennsylvania about 60 miles north of Pittsburgh. I have recently been bit by the bug (again) to have another vintage radio station. I sold all of my Collins equipment a few years back and recently a friend wanted me to find an old 6 meter AM rig & get on the air with him and his Lafayette. Well that started me on the quest of a Drake TR-6...which led me to a beautiful T-4X and R-4A...I fell in love with them....they are now part of the center piece of my station. Shortly after finding those pieces I was lucky and found a TR-6 and almost the same time found from a different Ham, an RV-6!! (Very Hard to Find). They are now also part of the center piece of my station. I have posted pictures of my station in the photo section of this site for anyone interested. I look forward to many happy hours of working with my Drakes and hope to work y'all soon. My thanks go to all the members of this group who share their radio problems and solutions here so that we all my benefit. I only hope I can contribute in some small way too. Please give me a holler if you hear me on the air. When not chasing DX, I can usually be found on 28.365 or 50.125 (or maybe 50.400 AM). Thanks & 73 to all....Butch...K3AFR

--- In DrakeRadio@...m, DrakeRadio@yahoogroups.com wrote:
>
>
> All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included
>
> For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
> Thanks to all members for your particapation.
>
> Don
> KE7FFM
>

732. R7 manuals?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-12 16:05:03 UTC
From: Floyd Sense
Topic: 732 Message: 732

Looking for R7 operator and service manuals. I've checked the link given recently (http://www.dproducts.be/Drake_Museum/manuals.htm) and there are no R7 manuals there and none at the bama site. Anyone know where I can find downloadable manuals for the R7?

733. 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-12 16:09:26 UTC
From: Paul McKee
Topic: 733 Message: 733

Hi:

I'm having great difficulty in finding a source for the (MC)14558BCD to 7 segment decoder used in the DR& - has anybody got a potential source for them?

Regards/73

Paul/G4EGJ

734. R7A ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-12 16:51:19 UTC
From: Floyd Sense
Topic: 734 Message: 734

If you have an R7A you'd like to sell, please email me. An R7 with the NB would also do.

735. Re: [DrakeRadio] 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-12 16:57:37 UTC
From: Don
Topic: 733 Message: 735

>http://www.mcmelectronics.com/product.asp?product_id=MC14543&catalog_name=MCMProducts<

Not sure if this will work, I haven't checked the data sheets. I also put
in a couple of RFQ's with a couple of places.
I'll let you know what I find.
Don

----- Original Message -----
From: "Paul McKee" <paul.mckee@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, March 12, 2008 10:09 AM
Subject: [DrakeRadio] 14558

Hi:

I'm having great difficulty in finding a source for the (MC)14558BCD to
7 segment decoder used in the DR& - has anybody got a potential source
for them?

Regards/73

Paul/G4EGJ

736. Re: [DrakeRadio] 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-12 17:14:53 UTC
From: Don
Topic: 733 Message: 736

scratch that. the mcm search gave me back the wrong number. so the one on
the link i sent is wrong. I'll keep looking
though. and shouldn't the part be 1558BCP ? not D?
u9029 on the dr7 board correct?
Don

----- Original Message -----
From: "Don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, March 12, 2008 10:57 AM
Subject: Re: [DrakeRadio] 14558

>http://www.mcmelectronics.com/product.asp?product_id=MC14543&catalog_name=MCMProducts<

Not sure if this will work, I haven't checked the data sheets. I also put
in a couple of RFQ's with a couple of places.
I'll let you know what I find.
Don

----- Original Message -----
From: "Paul McKee" <paul.mckee@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, March 12, 2008 10:09 AM
Subject: [DrakeRadio] 14558

Hi:

I'm having great difficulty in finding a source for the (MC)14558BCD to
7 segment decoder used in the DR& - has anybody got a potential source
for them?

Regards/73

Paul/G4EGJ

737. Re: [DrakeRadio] 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-13 04:28:21 UTC
From: Don
Topic: 733 Message: 737

sorry, the rfq's came back below the minimun order., $300 or more needed.
far beyond my budget!
please let us know if you do find a source. I'll keep checking as well.
Don

----- Original Message -----
From: "Paul McKee" <paul.mckee@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, March 12, 2008 10:09 AM
Subject: [DrakeRadio] 14558

Hi:

I'm having great difficulty in finding a source for the (MC)14558BCD to
7 segment decoder used in the DR& - has anybody got a potential source
for them?

Regards/73

Paul/G4EGJ

738. Re: 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-13 09:39:19 UTC
From: Paul McKee
Topic: 733 Message: 738

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> scratch that. the mcm search gave me back the wrong number. so the
one on
> the link i sent is wrong. I'll keep looking
> though. and shouldn't the part be 1558BCP ? not D?
> u9029 on the dr7 board correct?
> Don
>
Hi Don -thanks for looking - Yes, you are right it should be BCP (U9029)
although I think any of them should work. I have tried e-mailing these
guys : http://www.ondaradio.es/ing/catalogoConsulta.aspx?
TextBuscar=14558
As they seemto have them really cheap - 0.21 Euros (about 30 cents I
guess), but haven't got a reply and I don't speak Spanish.

73

Paul

739. Re: 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-13 10:55:15 UTC
From: Paul McKee
Topic: 733 Message: 739

Hi Don:

These guys in Australia seem to have some -quite reasonable too...I am making an order and we'll see what happens - I willpost results.
http://www.rockby.com.au/searchres.cfm?select=93&subcode=445&stock_no=33871

73

Paul/G4EGJ
>
> sorry, the rfq's came back below the minimun order., $300 or more needed.
> far beyond my budget!
> please let us know if you do find a source. I'll keep checking as well.
> Don

740. Re: 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-13 23:09:24 UTC
From: Paul McKee
Topic: 733 Message: 740

Well, as the latest update on this - I just gave them a phone call
and they are posting them to me today.
Real Friendly crew - very helpfull!

73

Paul/G4EGJ

--- In DrakeRadio@yahoogroups.com, "Paul McKee" <paul.mckee@...>
wrote:
>
> Hi Don:
>
> These guys in Australia seem to have some -quite reasonable too...I
am
> making an order and we'll see what happens - I willpost results.
> http://www.rockby.com.au/searchres.cfm?
> select=93&subcode=445&stock_no=33871
>
> 73
>
> Paul/G4EGJ

741. (no subject)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-13 23:14:57 UTC
From: mark helinski
Topic: 741 Message: 741

have a ps 7 drake power supply askin 100.00 plus shiping

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

742. Re: [DrakeRadio] Re: 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-14 00:13:04 UTC
From: Don
Topic: 733 Message: 742

God news, and thanks for the update. Luckily I do not believe them to be a high failure part.

Don
ad7ll

----- Original Message -----
From: Paul McKee
To: DrakeRadio@yahoogroups.com
Sent: Thursday, March 13, 2008 5:09 PM
Subject: [DrakeRadio] Re: 14558

Well, as the latest update on this - I just gave them a phone call
and they are posting them to me today.
Real Friendly crew - very helpfull!

73

Paul/G4EGJ

--- In DrakeRadio@yahoogroups.com, "Paul McKee" <paul.mckee@...>
wrote:
>
> Hi Don:
>
> These guys in Australia seem to have some -quite reasonable too...I
am
> making an order and we'll see what happens - I willpost results.
> http://www.rockby.com.au/searchres.cfm?
> select=93&subcode=445&stock_no=33871
>
> 73
>
> Paul/G4EGJ

[Non-text portions of this message have been removed]

743. DR7 Failure - was 14558

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-14 09:35:40 UTC
From: Paul McKee
Topic: 733 Message: 743

Hi Don and all:
The reason for chasing this part is that I have had a failure on a DR7 and want to make sure I have necessary spares on hand.
The manner in which this has failed is interesting and I'm wondering if anyone has any experience or ideas befor I start tracing signals with the scope. I'm more used to the 4 Series (I have an R4C with all the Sherwood Mods, a T4-XC and a L4B as the active devices in this lineup), so any pointers would be helpfull.
I'd had a problem with My R7, which sits next to the TR7 - normally they are interconnected by both the switching/control/oscillator cable and the antenna cables, so both chassis are at the same potential. When I removed the R7, it was still connected to mains power, but nothing else on it was connected. The TR7 was on. In the processing of moving the R7 Its case touched the TR7 which immediately went off! On powering up the TR7 again, it works, but there is no digital display!

Ideas most welcome!!

73
Paul/G4EGJ

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> God news, and thanks for the update. Luckily I do not believe them to be a high failure part.
>
> Don
> ad7ll

744. Very early TR-4 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-15 21:07:45 UTC
From: Mike-K5VSE
Topic: 744 Message: 744

Hello to all,
I have a very early TR-4. I need to replace the electrolytic in it. Now don't all of you tell me it's a 3 section cap. This one is the 4 section, 1" dia.. I at one time was told the values but not the working voltages. I understand I will NOT find a direct replacement, so am going to just wire axial lead types under the chassis, leaving the original for looks. Will someone give me the capacities and working voltages please.

Thanks ahead of time es 73,

Mike/K5VSE

745. Re: [DrakeRadio] Very early TR-4 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-15 21:33:05 UTC
From: Garey Barrell
Topic: 744 Message: 745

Mike -

I don't know that I've ever seen a 1" dia electrolytic with four
sections, but ...

TR-3
60 uF @ 300V |
20 Uf @ 250V | (Should be 300V also)
10 uF @ 25V | 1" d x 3" max

10 uF @ 25V Axial

TR-4 / C
60 uF @ 300V |
20 uF @ 300V |
10 uF @ 300V |
10 uF @ 25V | 1-3/8" d x 3" max

10 uF @ 25V Dipped Radial

If you can wait a week or so, Tom, N0JMY is in the process of sourcing
NEW twist-lock electrolytics for the Drake 4 Series. Very reasonable
prices.

TR-3 & vy early TR-4 -$21.95
66 uF @ 350V
22 Uf @ 250V
10 uF @ 50V 1" d x 3" max

10 uF @ 35V Axial

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Mike-K5VSE wrote:
> Hello to all,
> I have a very early TR-4. I need to replace the electrolytic in it.
> Now don't all of you tell me it's a 3 section cap. This one is the 4
> section, 1" dia.. I at one time was told the values but not the
> working voltages. I understand I will NOT find a direct replacement,
> so am going to just wire axial lead types under the chassis, leaving
> the original for looks. Will someone give me the capacities and
> working voltages please.
>
> Thanks ahead of time es 73,

>
> Mike/K5VSE
>
>

746. Re: [DrakeRadio] Very early TR-4 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-15 22:18:45 UTC
From: mdewey@allegiance.tv
Topic: 744 Message: 746

OK Garey,

I just went and looked, and you are right. It is a three section. Bill Frost had told me they did make a four section at one time, and it was he who had given me the capacities, but not the voltages. I'm in no hurry, as it's been this way for a long time. Just annoying when I go into transmit I have to listen to the speaker hum with pure AC. Right now I have to use it, as my twins are down. I took a lightning strike around here a few weeks ago. Got phones, satellite, computer, and radio equipment.

Keep me in mind if the twist lock type become available. I have one of my T4-XC's on the way to Jeff Covelli for his expertise in finding a problem I have been unable to locate. I've got way to many hours on that one.

Thanks for the info es 73,

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

747. RE: [DrakeRadio] Very early TR-4 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-16 00:12:10 UTC
From: Mark Saunders, KJ7BS
Topic: 744 Message: 747

I have some Drake parts for the TR-4. Which one is it? I may have it.

BTW - I have a Drake TR-4, VR-4, MS-4 with AC-4, all in very good to excellent cosmetic condition and in very good working condition that will be for sale shortly as a package. I have a second TR-4 in good to excellent cosmetic condition and in very good working condition which will also be for sale soon.

Mark, KJ7BS
Glendale, AZ
Editor, The SKCC Centurion
Elecraft K2 S/N 0539
Fists # 2972 CC 1806
SKCC # 2240 C56 T20

MQFD # 128
QRP-ARCI # 12647
AZ ScQRPions

COGRC Emergency Communications

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Mike-K5VSE
Sent: Saturday, March 15, 2008 2:08 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Very early TR-4 ??

Hello to all,
I have a very early TR-4. I need to replace the electrolytic in it. Now don't all of you tell me it's a 3 section cap. This one is the 4 section, 1" dia.. I at one time was told the values but not the working voltages. I understand I will NOT find a direct replacement, so am going to just wire axial lead types under the chassis, leaving the original for looks. Will someone give me the capacities and working voltages please.

Thanks ahead of time es 73,

Mike/K5VSE

[Non-text portions of this message have been removed]

749. Re: [DrakeRadio] Unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-17 14:24:17 UTC
From: Garey Barrell
Topic: 748 Message: 749

See link below.....

kegray44629 wrote:
> I would like to unsubscribe
>
> Kevin
>
>
> Yahoo! Groups Links
>
>
>
>
>

750. Re: [DrakeRadio] Unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-17 14:27:08 UTC
From: Garey Barrell
Topic: 748 Message: 750

See link below.....

kegray44629 wrote:
> I would like to unsubscribe
>
> Kevin
>
>
> Yahoo! Groups Links
>
>
>
> To unsubscribe from this group, send an email to:
> DrakeRadio-unsubscribe@yahoogroups.com
>
>
>

751. SW-2 Schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-17 14:36:12 UTC
From: deweygroups
Topic: 751 Message: 751

Does anyone on here have a schematic for the Drake SW-2 receiver? Something in the front end went out yesterday. Everything works, except it doesn't receive anything. Before I send it to Swan for repair, I thought I might be able to spot something if I had a schematic. Thanks.

Dick - W6CCD

752. DL/PA1HFO email address?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-18 17:43:42 UTC
From: Floyd Sense
Topic: 752 Message: 752

Anyone have a current email address for Marc, DL/PA1HFO? The address in his QRZ.com entry is bouncing. Marc authored the paper "The Drake TR7 Renewed" last year. Thanks.

73, Floyd - K8AC

753. TR7 Aux board question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-18 22:06:15 UTC
From: Floyd Sense
Topic: 753 Message: 753

Without an Aux board in the TR7, accessing the 17 meter band requires you to set the band switch to 21 MHz, and then hit the DOWN button 6 times. From some reading I've done on the Aux board, it appears that with an Aux board installed it may not be necessary to hit the down button provided you have an Aux board position programmed for 17 meters. Is that true?

754. Mic Plugs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-18 22:44:08 UTC
From: john baker
Topic: 754 Message: 754

Hey guys,
What kind of mic plug does the TR-4 use? Is there a trade standard description or something? Is it one that you can go down to the local electronics shop and pick up? Will it use the same as Collins or other (I passed up a real nice Collins mic 'cause I didn't know if it would work)?

I've been anxious to get this on HF.

Thanks
73
jb

755. Re: [DrakeRadio] Mic Plugs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-18 22:52:35 UTC
From: K5VSE
Topic: 754 Message: 755

It's been described as a .206 and is available from Switchcraft.

http://www.switchcraft.com/products/jack-135b.html

The come in right angle or straight plugs.

Mike/K5VSE

[Non-text portions of this message have been removed]

756. Low BIAS on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 01:02:33 UTC
From: Mike-K5VSE
Topic: 756 Message: 756

Hi to all,

Any one have an idea why I would have low BIAS on my transmitter? I've tried two different power supplies and have the same results. Replaced the finals as well. I've measured the BIAS voltages, and can get anywhere from -40 to -70 vdc. So I have to assume the power supplies are OK. The screen voltages on both supplies are a little low. (235-240)

The second question I have, removing the bottom covers from the power supplies, I find them different. One has a terminal strip next to the trio of caps, where the BIAS is developed and some of the secondary transfomer wires going to it. The other has all the secondary going to a single terminal strip and the HV end of the supply. Were there more versions that I need to be aware of? I want to do Mike Bryce's up-grade, but with two versions I might run into trouble. And I'm looking for a third supply as well. Can't afford to get them from the "E" place though, so will wait till I can find one a one of the swap meets comiing up.

Thanks ahead of time,
Mike/K5VSE

757. FS: Drake Station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 01:44:01 UTC
From: Mark Saunders, KJ7BS
Topic: 757 Message: 757

Hello everyone,

I am liquidating the estate of a local ham.

I have the following for sale:

A complete station, a very nice Drake TR-4 station. In this package is the TR-4 Transceiver (S/N 28283), RV-4 Remote VFO (S/N Not readable), MS-4 Speaker with AC-4 Power Supply (S/N 38152). Asking $700 plus shipping from 85304 by the least expensive route (usually FED-EX Ground) with insurance.

A Drake TR-4 Transceiver (S/N 32142). Asking $200 plus shipping from 85304 by the least expensive route (usually FED-EX Ground) with insurance.

A Drake TV-1000 Low-Pass filter. Asking $20 plus shipping from 85304 by the least expensive route (usually FED-EX Ground).

An Astatic D-104 microphone wired for the Drake station. Asking $30 plus shipping from 85304 by the least expensive route (usually FED-EX Ground).

A Heathkit Canetnna 1KW. Asking $30 plus shipping from 85304 by the least expensive route (usually FED-EX Ground). Will ship without oil. You can add your own mineral oil.

Interested parties, please contact me off list at kj7bs@....

Pickup is OK if you do not want to ship. However, payment is required to hold merchandise. I will hold merchandise for a reasonable time with payment.

Mark, KJ7BS
Glendale, AZ
Editor, The SKCC Centurion
Elecraft K2 S/N 0539
Fists # 2972 CC 1806
SKCC # 2240 C56 T20

MQFD # 128
QRP-ARCI # 12647
AZ ScQRPions

COGRC Emergency Communications

[Non-text portions of this message have been removed]

758. Re: [DrakeRadio] Low BIAS on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 01:48:43 UTC
From: K5VSE
Topic: 756 Message: 758

I forgot to mention, it takes about 15-20 minutes before I show any idling current at all.

73,
Mike/K5VSE

[Non-text portions of this message have been removed]

759. Re: [DrakeRadio] DL/PA1HFO email address?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 02:04:42 UTC
From: Don
Topic: 752 Message: 759

his listed homepage is also down. odd, since qrz.com shows it last updated his info this past Dec.
hopefully it just a temporary problem with his isp.
sorry, best I can do on this one.
Don

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, March 18, 2008 11:43 AM
Subject: [DrakeRadio] DL/PA1HFO email address?

Anyone have a current email address for Marc, DL/PA1HFO? The address in his QRZ.com entry is bouncing. Marc authored the paper "The Drake TR7 Renewed" last year. Thanks.

73, Floyd - K8AC

[Non-text portions of this message have been removed]

760. R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 02:31:24 UTC
From: W6IDS
Topic: 760 Message: 760

I just began receiving the forum and thought I'd ask about a possible source for amplifier repair. I recall seeing a source that supplied a "drop-in" replacement amplifier "module" for the R-4B. The whole repair required a total removal of the existing metal sub-chassis and parts and replaced with a new sub-chassis and all new components.

Would anyone know if that source or an similar alternate source is available?

Regards,

Howard W6IDS
Richmond, IN

761. Re: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 02:47:26 UTC
From: Garey Barrell
Topic: 760 Message: 761

I think you're thinking of the R-4C.

The R-4B has a single transistor preamp and a 6EH5 audio output tube.

The R-4C has a two transistor preamp and a single output transistor on a sheet metal heatsink/bracket. There have been several IC audio amplifiers published over the years, using the LM383 or similar.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

W6IDS wrote:
> I just began receiving the forum and thought I'd ask about a possible
> source for amplifier repair. I recall seeing a source that supplied a
> "drop-in" replacement amplifier "module" for the R-4B. The whole
> repair required a total removal of the existing metal sub-chassis and
> parts and replaced with a new sub-chassis and all new components.
>
> Would anyone know if that source or an similar alternate source
> is available?
>
> Regards,
>
> Howard W6IDS
> Richmond, IN
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

762. Re: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 04:49:41 UTC
From: W6IDS
Topic: 760 Message: 762

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, March 18, 2008 10:47 PM
Subject: Re: [DrakeRadio] R-4B Audio Amp Module Question

>I think you're thinking of the R-4C.
>
> The R-4B has a single transistor preamp and a 6EH5 audio output tube.
>
> The R-4C has a two transistor preamp and a single output transistor on a
> sheet metal heatsink/bracket. There have been several IC audio
> amplifiers published over the years, using the LM383 or similar.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

YIKES! It sure seems like I was a bit off target, huh? I just broke out my original manual and yeppir. Jeez, I guess it's been a while since I have looked inside the thing.

I was having some "popping 'n crackling" sounds with slightly varying audio not long ago before the audio quit altogether. Lately, I wanted to get inside the thing and get it working and thought I had hit on a simple solution. AHHH, another Senior Moment me thinks.

Guess I'll replace the caps 'n such just to start.

Like your link......will need to obtain the CD; no doubt it's a class act judging from the sample.

Regards,

Howard W6IDS
Richmond, IN

763. RE: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 09:57:09 UTC
From: John Page
Topic: 760 Message: 763

Howard, just looked you up in qrz.com as I live in Preble Co, Ohio. Were you aware it shows your license as expired? Would hate for you to have to get a new call. You probably already renewed but just wanted to let you know. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: w6ids@...
Date: Tue, 18 Mar 2008 22:31:24 -0400
Subject: [DrakeRadio] R-4B Audio Amp Module Question

I just began receiving the forum and thought I'd ask about a possible

source for amplifier repair. I recall seeing a source that supplied a

"drop-in" replacement amplifier "module" for the R-4B. The whole

repair required a total removal of the existing metal sub-chassis and

parts and replaced with a new sub-chassis and all new components.

Would anyone know if that source or an similar alternate source

is available?

Regards,

Howard W6IDS

Richmond, IN

_____
Connect and share in new ways with Windows Live.
http://www.windowslive.com/share.html?ocid=TXT_TAGHM_Wave2_sharelife_012008

[Non-text portions of this message have been removed]

764. Re: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 15:09:27 UTC
From: W6IDS
Topic: 760 Message: 764

YIKES!!

MANY THANKS! NO, I did not renew. My better half has been in the
hospital and I've been totally distracted. I'll get on it right now.
Thanks
so much for the heads up!!!!

Howard W6IDS
Richmond, IN

----- Original Message -----
From: "John Page" <k4kwm@...>
To: <drakeradio@yahoogroups.com>
Sent: Wednesday, March 19, 2008 5:57 AM
Subject: RE: [DrakeRadio] R-4B Audio Amp Module Question
>
> Howard, just looked you up in qrz.com as I live in Preble Co, Ohio. Were
> you aware it shows your license as expired? Would hate for you to have to
> get a new call. You probably already renewed but just wanted to let you
> know. John
>
> John Page K4KWM
> Hollow State since 1953
> (ex W8PKU,N8BLB,NA8O)
>

765. Re: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 15:20:23 UTC
From: W6IDS
Topic: 760 Message: 765

----- Original Message -----
From: "John Page" <k4kwm@...>
To: <drakeradio@yahoogroups.com>
Sent: Wednesday, March 19, 2008 5:57 AM
Subject: RE: [DrakeRadio] R-4B Audio Amp Module Question

>
> Howard, just looked you up in qrz.com as I live in Preble Co, Ohio. Were
> you aware it shows your license as expired? Would hate for you to have to
> get a new call. You probably already renewed but just wanted to let you
> know. John
>
> John Page K4KWM
> Hollow State since 1953
> (ex W8PKU,N8BLB,NA8O)

Hey, John.....

Just to follow up on your message, I talked with the FCC a few minutes ago and they said not to worry. There's a 2-year grace period for license renewal.
I called the FRN Help Line 877-480-3201 and they sent me in the right direction without a hitch.

PHEW! All's well, they're sending step-by-step instructions by email in a few
minutes. Hmmm.....wonder if I could do that through QRZ.com??

Again, many thank yews! Totally slipped my mind. I'll have to control the automatic PTT reflex pending renewal.

Howard W6IDS
Richmond, IN

766. RE: [DrakeRadio] R-4B Audio Amp Module Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 15:41:45 UTC
From: John Page
Topic: 760 Message: 766

Glad all is well. We should get together. We only live about 30 minutes apart. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: w6ids@...
Date: Wed, 19 Mar 2008 11:20:23 -0400
Subject: Re: [DrakeRadio] R-4B Audio Amp Module Question

----- Original Message -----

From: "John Page" <k4kwm@...>

To: <drakeradio@yahoogroups.com>

Sent: Wednesday, March 19, 2008 5:57 AM

Subject: RE: [DrakeRadio] R-4B Audio Amp Module Question

>

> Howard, just looked you up in qrz.com as I live in Preble Co, Ohio. Were

> you aware it shows your license as expired? Would hate for you to have to

> get a new call. You probably already renewed but just wanted to let you

> know. John

>

> John Page K4KWM

> Hollow State since 1953

> (ex W8PKU,N8BLB,NA8O)

Hey, John.....

Just to follow up on your message, I talked with the FCC a few minutes ago

and they said not to worry. There's a 2-year grace period for license

renewal.

I called the FRN Help Line 877-480-3201 and they sent me in the right

direction without a hitch.

PHEW! All's well, they're sending step-by-step instructions by email in a

few

minutes. Hmmm.....wonder if I could do that through QRZ.com??

Again, many thank yews! Totally slipped my mind. I'll have to control the

automatic PTT reflex pending renewal.

Howard W6IDS

Richmond, IN

_____
Climb to the top of the charts! Play the word scramble challenge with star power.
http://club.live.com/star_shuffle.aspx?icid=starshuffle_wlmailtextlink_jan

[Non-text portions of this message have been removed]

767. Re: Mic Plugs now: Drake Net

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 20:16:05 UTC
From: john baker
Topic: 754 Message: 767

Thanks Mike

The right angle is definetly what I'll need. I have had this TR-4 for a couple of months now. It is in excellent condition and am axnious to get it running on HF. Came with no manual or power supply but I got that covered now. Ready to fire it up now. Thanks again.

"Boat anchors unite!!" =)

BTW, there isn't a rag chewing net on any of the HF bands that happens to be centered around Drake rigs, is there? Just thought that would be fun.

73
God bless
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> It's been described as a .206 and is available from Switchcraft.
>
> http://www.switchcraft.com/products/jack-135b.html
>
>
> The come in right angle or straight plugs.
>
> Mike/K5VSE
>
>
> [Non-text portions of this message have been removed]
>

768. Re: [DrakeRadio] Re: Mic Plugs now: Drake Net

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 20:38:59 UTC
From: K5VSE
Topic: 754 Message: 768

Glad you are getting the Drake gear up and running. You can get the plugs from Mouser and/or Newark Electronics. Just use the Switchcraft numbers and you will find them easily.

As far as I know there still is a Drake net that operates a couple times a week.

Drake User's Net - Tuesday night, 2000 EST 3865 kHz; technical net on Sunday 2000 EST 7238 kHz.
Hope this helps you out.

73,

Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

769. Drake R-7 Receiver Frequency Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-19 22:40:12 UTC
From: kb1mgi
Topic: 769 Message: 769

I have a Drake R-7 receiver where the Frequency display just keeps on moving like its in a scan mode and not receiving any stations any ideas?
John
KB1MGI

770. Re: [DrakeRadio] Drake R-7 Receiver Frequency Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-20 01:17:23 UTC
From: Garey Barrell
Topic: 769 Message: 770

One or both VCOs are unlocked. Reseat all the cards to start.

Does it do it all all bands or only above or below 14 MHz?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kb1mgi wrote:
> I have a Drake R-7 receiver where the Frequency display just keeps on
> moving like its in a scan mode and not receiving any stations any ideas?
> John
> KB1MGI
>
>
>

771. Re: [DrakeRadio] Drake R-7 Receiver Frequency Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-20 01:18:34 UTC
From: Larry Taft
Topic: 769 Message: 771

John,

The synthesizer is unlocked so depending on the band selected the
display will run up to 17 or 33 MHz. Try pulling and replugging the
circuit cards under the display board which are the synthesizer's
several pieces and see if that restores the freq control. The pins
from the mother board to the cards are tinned, not gold plated and
many times get a bit of corrosion on them which disables the receiver.

All you need is to pull each card up an 1/8th inch and push it back
down. Do each card a couple of times. No need to pull them all the
way out as then some of them are trouble to get back in. Make sure
all the little coax cables are plugged in when you reseat each card.

Do all the cards while you're in there as that can cure a bunch of
other ills too.

If that doesn't fix the old girl then its time for a trip to my shop.

73, Larry K2LT
drakerepair.com 800-687-9161

kb1mgi wrote:
> I have a Drake R-7 receiver where the Frequency display just keeps on
> moving like its in a scan mode and not receiving any stations any ideas?
> John
> KB1MGI
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

772. TR-4C load control settings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-20 04:58:47 UTC
From: Paul
Topic: 772 Message: 772

Does anyone have a list of where the load control setting should be for the different bands?When tuning up my TR-4C on 20M the load control is almost at 1.As far as the output I haven't sat down and loaded the rig into a dummy load and checked to see how much RF the rig was putting out.

On a another note: When using the 100 kHz calibrator is it normal to pick up a low level signal from the oscillator?The 100 kHz markers are good and strong but a low level tone is heard when the oscillator is turned on. An alignment issue???

Since bringing the radio out of mothballs in December it has been really working good.Besides the power supply upgrade I cleaned the bandswitch and that took care of the intermittent receive/transmit.I've got a couple of minor mods to do (dial lights and a cooling fan) and it will be ready.I had forgotten how great it sounded and comparing its receiver to my TS-520S I think the Drake has a better receiver.But I can't say for sure until I get the TS-520S realigned someday.

Paul WB0CJB

773. Re: [DrakeRadio] TR-4C load control settings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-20 20:24:43 UTC
From: g4jss@tiscali.co.uk
Topic: 772 Message: 773

Hi Paul

The load settings on my T-4XC are pretty close to the book.

160 2.5

80 3.5

40 4.5

20 4.5

15 4.5

10 4.5

Vic G4JSS

----Original Message----
From: lonelyone_64109@...
Date: 20/03/2008 4:58
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] TR-4C load control settings

Does anyone have a list of where the load control setting should be for
the different bands?When tuning up my TR-4C on 20M the load control is
almost at 1.As far as the output I haven't sat down and loaded the rig
into a dummy load and checked to see how much RF the rig was putting
out.

On a another note: When using the 100 kHz calibrator is it normal to
pick up a low level signal from the oscillator?The 100 kHz markers are
good and strong but a low level tone is heard when the oscillator is
turned on. An alignment issue???

Since bringing the radio out of mothballs in December it has been
really working good.Besides the power supply upgrade I cleaned the
bandswitch and that took care of the intermittent receive/transmit.I've
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will be ready.I had forgotten how great it sounded and comparing its
receiver to my TS-520S I think the Drake has a better receiver.But I
can't say for sure until I get the TS-520S realigned someday.

Paul WB0CJB

_____
Get up to 33% off Norton Security - http://www.tiscali.co.uk/products/securepc/

[Non-text portions of this message have been removed]

774. Want TR7 Aux board

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-20 23:20:40 UTC
From: Floyd Sense
Topic: 774 Message: 774

Looking for an Aux board for the TR7. Please let me know your price and which freq modules are included.

775. Blue dial filter media

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-21 23:39:48 UTC
From: Paul
Topic: 775 Message: 775

I found a very cheap source for the blue filter at my local Wal-mart store.Go to the school supply section and look for a page protector that has a clear front and a blue back cover.It is "officially" called a Clear Cover Poly Brief Folder.The item is made by MeadWestvaco out of Dayton OH and the bar code number is 0 43100 34024 9.The cost for one is 78 cents and theres PLENTY of plastic to cut up for several radios.I just did my radio and it looks great.Theres not much light coming through with the dial lights in the dim position though.

I know several of you have gone the route of the super bright LEDS and that is another good source.That was my second choice if I was unable to find a source of plastic media.The town I live in does not have a crafts store so I'd have to drive 30 miles to get to the closest one.I knew in the past there were blue page protectors and I wanted to see if I could locate something that would be close to the original blue filter.

When my dad had the radio he was cleaning the blue filter and wound up cleaning most of it off, not to mention putting the blue filter in front of the white plastic.The radio dial filter had a faint blue tint still and being the purist I am I wanted to get the dial back to its original look as well as the blue dial glow.Holding the blue plastic up with the original blue filter there is hardly any difference in the color.

Hope this helps anyone who is in need of the blue filter media.

Paul WB0CJB

776. Re: [DrakeRadio] Blue dial filter media

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-22 02:07:29 UTC
From: Don
Topic: 775 Message: 776

Nice Idea. Thanks!

----- Original Message -----
From: Paul
To: DrakeRadio@yahoogroups.com
Sent: Friday, March 21, 2008 5:39 PM
Subject: [DrakeRadio] Blue dial filter media

I found a very cheap source for the blue filter at my local Wal-mart store.Go to the school supply section and look for a page protector that has a clear front and a blue back cover.It is "officially" called a Clear Cover Poly Brief Folder.The item is made by MeadWestvaco out of Dayton OH and the bar code number is 0 43100 34024 9.The cost for one is 78 cents and theres PLENTY of plastic to cut up for several radios.I just did my radio and it looks great.Theres not much light coming through with the dial lights in the dim position though.

I know several of you have gone the route of the super bright LEDS and that is another good source.That was my second choice if I was unable to find a source of plastic media.The town I live in does not have a crafts store so I'd have to drive 30 miles to get to the closest one.I knew in the past there were blue page protectors and I wanted to see if I could locate something that would be close to the original blue filter.

When my dad had the radio he was cleaning the blue filter and wound up cleaning most of it off, not to mention putting the blue filter in front of the white plastic.The radio dial filter had a faint blue tint still and being the purist I am I wanted to get the dial back to its original look as well as the blue dial glow.Holding the blue plastic up with the original blue filter there is hardly any difference in the color.

Hope this helps anyone who is in need of the blue filter media.

Paul WB0CJB

[Non-text portions of this message have been removed]

777. 6JB6A final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-23 13:49:30 UTC
From: hummerham
Topic: 777 Message: 777

I have read some of the posts concerning 6JB6 tube substitution but did not see anything directly aimed at the 6JB6A. These tubes seem to be readily available. Since I am relatively new in collecting and using Drake equipment I would appreciate and respect the groups opinion as to the 6JB6A being an acceptable replacement to the 6JB6. I have a nice TR-6 that seems a little low on output and thought I would try replacing the final tubes...at least until I can get the TR-6 & RV-6 out to Jeff Covelli to have them gone over. Thanks for the forum & hope all have a happy Easter. 73...Butch...K3AFR

778. RE: [DrakeRadio] 6JB6A final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-23 21:53:21 UTC
From: Mark Saunders, KJ7BS
Topic: 777 Message: 778

I believe I have some 6JB6 tubes in my tube collection. Anyone interested?
I will put them on my tube tester to see where the test out.

Mark, KJ7BS
Glendale, AZ
Editor, The SKCC Centurion
Elecraft K2 S/N 0539
Fists # 2972 CC 1806
SKCC # 2240 C56 T20

MQFD # 128
QRP-ARCI # 12647
AZ ScQRPions

COGRC Emergency Communications

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of hummerham
Sent: Sunday, March 23, 2008 6:50 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] 6JB6A final tubes

I have read some of the posts concerning 6JB6 tube substitution but did not see anything directly aimed at the 6JB6A. These tubes seem to be readily available. Since I am relatively new in collecting and using Drake equipment I would appreciate and respect the groups opinion as to the 6JB6A being an acceptable replacement to the 6JB6. I have a nice TR-6 that seems a little low on output and thought I would try replacing the final tubes...at least until I can get the TR-6 & RV-6 out to Jeff Covelli to have them gone over. Thanks for the forum & hope all have a happy Easter. 73...Butch...K3AFR

[Non-text portions of this message have been removed]

779. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-24 03:24:27 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 779

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

780. FS: Seven (7) 6JB6 final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-24 04:49:00 UTC
From: Mark Saunders, KJ7BS
Topic: 777 Message: 780

I have seven (7) 6JB6 tubes that test GOOD (80-90). All seven tubes $80 plus $5 shipping. USA & Canada only.

Mark, KJ7BS
Glendale, AZ
Editor, The SKCC Centurion
Elecraft K2 S/N 0539
Fists # 2972 CC 1806
SKCC # 2240 C56 T20

MQFD # 128
QRP-ARCI # 12647
AZ ScQRPions

COGRC Emergency Communications

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of hummerham
Sent: Sunday, March 23, 2008 6:50 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] 6JB6A final tubes

I have read some of the posts concerning 6JB6 tube substitution but did not see anything directly aimed at the 6JB6A. These tubes seem to be readily available. Since I am relatively new in collecting and using Drake equipment I would appreciate and respect the groups opinion as to the 6JB6A being an acceptable replacement to the 6JB6. I have a nice TR-6 that seems a little low on output and thought I would try replacing the final tubes...at least until I can get the TR-6 & RV-6 out to Jeff Covelli to have them gone over. Thanks for the forum & hope all have a happy Easter. 73...Butch...K3AFR

[Non-text portions of this message have been removed]

781. Greetings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-28 14:13:01 UTC
From: captcurt2000
Topic: 781 Message: 781

Good Morning to All from snowy Michigan!

I am Curt, KU8L--been licensed since 1962. First Drake was a famous 2A, then a full R-4/T4X system in 1966 as a high school grad present.

Still using it.

Currently adding one of the AC4 board upgrade kits from Heathkit shop and am playing with a Softrock SDR connected to the R4 front end.

I have performed several swept-frequency alignments on the R4/T4 combo--mine are still using the original tube sets!

73

Curt

782. Re: [DrakeRadio] Greetings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-28 14:56:55 UTC
From: Don
Topic: 781 Message: 782

Welcome to the group !
Don

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Friday, March 28, 2008 8:13 AM
Subject: [DrakeRadio] Greetings

Good Morning to All from snowy Michigan!

I am Curt, KU8L--been licensed since 1962. First Drake was a famous 2A, then a full R-4/T4X system in 1966 as a high school grad present.

Still using it.

Currently adding one of the AC4 board upgrade kits from Heathkit shop and am playing with a Softrock SDR connected to the R4 front end.

I have performed several swept-frequency alignments on the R4/T4 combo--mine are still using the original tube sets!

73

Curt

[Non-text portions of this message have been removed]

783. Drake R8 Panel Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-28 19:54:12 UTC
From: John Swez
Topic: 783 Message: 783

Hi Everyone

I have just joined the Yahoo Drake users group. I have had a Drake R8 for 5 years and it has performed very well.

Just recently the display went out. Although I can still see the display by shining a light into it. Then I

Found out that by tapping on the radio the display comes back and lasts for about a minute or so.

This sounds like a bad or corroded connection. Has anyone ever had this problem? I don?t have a service manual;

They are so expensive! So I am reluctant to take it apart until I might be able to get some hint as to

where to look for the source of the problem. Thanks in advance for any help.

Cheers. John KC9JPZ

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.519 / Virus Database: 269.22.1/1347 - Release Date: 3/27/2008 7:15 PM

[Non-text portions of this message have been removed]

784. Re: [DrakeRadio] Drake R8 Panel Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-29 03:27:07 UTC
From: Don
Topic: 783 Message: 784

I am not familiar the R8 myself, there may be others here who are that
may give you a more
helpfull answer. I would however, strongly recommened getting the manual
before attempting
to take it apart. The manuals will often include assembly diagrams that can
really help with taking it apart,
as well as re-assembly with-out accidently causeing more damage.
The problem you describe is common with dirty connectors as well as a
poor /cold solder joint.
and is generaly an easy repair. carefull cleaning of all plug connectors,
edge connectors, ect., folllowed
with a very close examine of the pcb under magnification for bad joints will
usually lead to repair of this
type of intermittant problems.
Don

----- Original Message -----
From: "John Swez" <curios.angus@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, March 28, 2008 1:54 PM
Subject: [DrakeRadio] Drake R8 Panel Display

Hi Everyone

I have just joined the Yahoo Drake users group. I have had a Drake R8 for 5
years and it has performed very well.

Just recently the display went out. Although I can still see the display by
shining a light into it. Then I

Found out that by tapping on the radio the display comes back and lasts for
about a minute or so.

This sounds like a bad or corroded connection. Has anyone ever had this
problem? I don't have a service manual;

They are so expensive! So I am reluctant to take it apart until I might be
able to get some hint as to

where to look for the source of the problem. Thanks in advance for any
help.

Cheers. John KC9JPZ

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.519 / Virus Database: 269.22.1/1347 - Release Date: 3/27/2008

7:15 PM

[Non-text portions of this message have been removed]

Yahoo! Groups Links

785. For Sale: Drake TR-33C 2meter transceiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-03-29 21:51:52 UTC
From: bedec487
Topic: 785 Message: 785

For Sale --Drake TR-33C 2meter transceiver, with microphone and carry strap. First reasonable offer. Estate sale. please contact offgroup. thank you.

786. Fw: "B" line and TR4 NEW MAIN TUNING KNOBS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-01 02:13:37 UTC
From: Don
Topic: 786 Message: 786

----- Original Message -----
From: ALAN PHILLIPS
To: drakelist@...
Sent: Monday, March 31, 2008 7:52 PM
Subject: [drakelist] "B" line and TR4 NEW MAIN TUNING KNOBS

I took a knob survey this summer and had a great response from the drakelist gang, so I decided to make the original complete knob with spun insert available.

They have a 1/4 " brass bushing instead of the plain hole in the plastic. They also have a Allen setscrew. The black phenolic is high gloss, and the spun insert is factory mounted.

COST $20 each..shipping for 1 or 2 is $2. I haven't seen a new main knob in 40 years! They look great. e-mail or call me at 630-879-1132 or kc9ys@....
73's Al..

[Non-text portions of this message have been removed]

787. TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-05 23:32:33 UTC
From: kd8esf
Topic: 787 Message: 787

Hi everyone. I just picked up a TR-4C and I have a question. What happens to the TR-4C if the 34pnb jumper cap is missing? The radio had the noise blanker installed but it was removed when I got the radio and the owner forgot to install the cap on the open socket. The original owner is sending me the missing piece but I thought I'd get some expert opinions. Any help would be welcome. Thanks.
73
Don KD8ESF

788. Re: [DrakeRadio] TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-06 00:40:41 UTC
From: Larry Taft
Topic: 787 Message: 788

The IF path is open without the plug or the noise blanker.
No harm to radio, just no signal. You can stick a couple of paper
clip wire in the socket to complete the path. Follow the schematic
and look at the wiring underneath to get the correct pins.

73, Larry K2LT
drakerepair.com 800-687-9161

kd8esf wrote:
> Hi everyone. I just picked up a TR-4C and I have a question. What
> happens to the TR-4C if the 34pnb jumper cap is missing? The radio
> had the noise blanker installed but it was removed when I got the
> radio and the owner forgot to install the cap on the open socket. The
> original owner is sending me the missing piece but I thought I'd get
> some expert opinions. Any help would be welcome. Thanks.
> 73
> Don KD8ESF
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

789. Re: TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-06 01:19:18 UTC
From: kd8esf
Topic: 787 Message: 789

Thanks Larry. That's what I was hoping I would find out. 80 and 40
meters are there but really low and 20 meters is just about dead.
Thanks for the suggestion. If the part doesn't come by Monday I'll
try the paper clips.
73
Don KD8ESF

--- In DrakeRadio@yahoogroups.com, Larry Taft <ltaft@...> wrote:
>
> The IF path is open without the plug or the noise blanker.
> No harm to radio, just no signal. You can stick a couple of paper
> clip wire in the socket to complete the path. Follow the schematic
> and look at the wiring underneath to get the correct pins.
>
> 73, Larry K2LT
> drakerepair.com 800-687-9161
>
> kd8esf wrote:
> > Hi everyone. I just picked up a TR-4C and I have a question. What
> > happens to the TR-4C if the 34pnb jumper cap is missing? The radio
> > had the noise blanker installed but it was removed when I got the
> > radio and the owner forgot to install the cap on the open socket. The
> > original owner is sending me the missing piece but I thought I'd get
> > some expert opinions. Any help would be welcome. Thanks.
> > 73
> > Don KD8ESF
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
>

790. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-07 07:57:39 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 790

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

791. Re: TR7 Aux board question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-07 11:20:43 UTC
From: Floyd Sense
Topic: 753 Message: 791

I'll answer this myself. A major benefit of the Aux board is that you don't have to use the up and down buttons to tune to the desired band segment. For example, if you have it set up for the WARC bands, moving the Aux program rotary switch to the right position results in the desired frequency range appearing on the digital readout. The bandswitch still must be set to the proper band, and if it isn't, the SETBAND light to the right of the S-meter comes on. When you switch the bandswitch to the correct band, the light goes out.

The often-encountered modification that provides for tuning the AM broadcast band segments and below amounts to nothing more than imitating the AUX modules with diodes soldered directly to the card socket pins. You can easily build your own AUX board using a readily available piece of patterned perf board and 1N4148 diodes. The female card pin sockets are still available from Digikey at a very reasonable price. If interested, contact me for the part numbers.

73, K8AC

792. Documenting installed options

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-07 15:16:46 UTC
From: Floyd Sense
Topic: 792 Message: 792

In the past year or so, it seems a lot of Drake gear is coming on the market from estates, often being sold by family survivors who have no knowledge of the equipment. As you know, the price of a receiver or transceiver can vary widely based on the filters installed, noise blanker, etc. It might be a good idea for all of us to somehow document what's installed - perhaps a list stapled into the users manual or taped somewhere where it can easily be found. When I go the SK route, I'd like my XYL to be able to easily sell the stuff on eBay for the maximum return with as little trouble as possible. Just a thought.

793. Re: [DrakeRadio] Documenting installed options

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-07 15:49:17 UTC
From: g4jss@tiscali.co.uk
Topic: 792 Message: 793

Hello Floyd

I, for one, have thought about the same thing frequently. Nobody in my family from the XYL downwards has a clue about what I have or its value - in later years. Morbid? Yes. Practical? Yes. Nice to know that that someone else is riding on the same rail.

Vic

----Original Message----
From: floyd@...
Date: 07/04/2008 16:16
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Documenting installed options

In the past year or so, it seems a lot of Drake gear is coming on the market from estates, often being sold by family survivors who have no knowledge of the equipment. As you know, the price of a receiver or transceiver can vary widely based on the filters installed, noise blanker, etc. It might be a good idea for all of us to somehow document what's installed - perhaps a list stapled into the users manual or taped somewhere where it can easily be found. When I go the SK route, I'd like my XYL to be able to easily sell the stuff on eBay for the maximum return with as little trouble as possible. Just a thought.

Get up to 33% off Norton Security from Tiscali - http://www.tiscali.co.uk/securepc
Make the most of your Broadband - http://www.tiscali.co.uk/services

[Non-text portions of this message have been removed]

794. Re: [DrakeRadio] Documenting installed options

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-07 23:53:08 UTC
From: Don
Topic: 792 Message: 794

I am only 43yrs old, but have have the same concerns. while I would want my equipment go to someone
who will use it, I would want it to sold at a fair price for my families behalf.
So I actually have begun the process, placing my notes either in a small zip-lock bag securely taped to the
bottom or back of an item. using the zip-lock bag should make it easier to update the list as needed.
other idea's? maybe having a trusted volunteer form you ham club help with sales? the lsit would still help.

Don
ps. sorry Floyd, I must have missed your first post on the aux board. I believe you have it correct, although
mine was set for BC and I never tried to setup it up for the others.

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 07, 2008 9:16 AM
Subject: [DrakeRadio] Documenting installed options

In the past year or so, it seems a lot of Drake gear is coming on the
market from estates, often being sold by family survivors who have no
knowledge of the equipment. As you know, the price of a receiver or
transceiver can vary widely based on the filters installed, noise
blanker, etc. It might be a good idea for all of us to somehow
document what's installed - perhaps a list stapled into the users
manual or taped somewhere where it can easily be found. When I go the
SK route, I'd like my XYL to be able to easily sell the stuff on eBay
for the maximum return with as little trouble as possible. Just a
thought.

[Non-text portions of this message have been removed]

795. Re: [DrakeRadio] Documenting installed options

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-08 07:34:15 UTC
From: Dave Springer
Topic: 792 Message: 795

What a number of us have done is to set up arrangements in advance with other hams that we know & trust to help manage that part of our estates. Usually three or four guys in a group who all agree to help when one expires, so that the widow or widower does not have to deal in a world foreign to them.

Don <drfrasher@...> wrote: I am only 43yrs old, but have have the same concerns. while I would want my equipment go to someone
who will use it, I would want it to sold at a fair price for my families behalf.
So I actually have begun the process, placing my notes either in a small zip-lock bag securely taped to the
bottom or back of an item. using the zip-lock bag should make it easier to update the list as needed.
other idea's? maybe having a trusted volunteer form you ham club help with sales? the lsit would still help.

Don
ps. sorry Floyd, I must have missed your first post on the aux board. I believe you have it correct, although
mine was set for BC and I never tried to setup it up for the others.

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 07, 2008 9:16 AM
Subject: [DrakeRadio] Documenting installed options

In the past year or so, it seems a lot of Drake gear is coming on the
market from estates, often being sold by family survivors who have no
knowledge of the equipment. As you know, the price of a receiver or
transceiver can vary widely based on the filters installed, noise
blanker, etc. It might be a good idea for all of us to somehow
document what's installed - perhaps a list stapled into the users
manual or taped somewhere where it can easily be found. When I go the
SK route, I'd like my XYL to be able to easily sell the stuff on eBay
for the maximum return with as little trouble as possible. Just a
thought.

[Non-text portions of this message have been removed]

You rock. That's why Blockbuster's offering you one month of Blockbuster Total Access, No Cost.

[Non-text portions of this message have been removed]

796. Re: Documenting installed options

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-08 11:49:03 UTC
From: Floyd Sense
Topic: 792 Message: 796

> What a number of us have done is to set up arrangements in advance
>with other hams that we know & trust to help manage that part of our
>estates. Usually three or four guys in a group who all agree to help
>when one expires, so that the widow or widower does not have to deal
>in a world foreign to them.

That's a good idea and something all of us ought to do. But, some gear like the Drake TR7 presents a unique situation. It's very difficult for someone not knowledgeable on the TR7 to tell what options are installed unless he pulls the covers and knows exactly what to look for. I've inquired into many TR7s that were estate items being sold by a ham and they were at a loss as to how to tell what was installed. Furthermore, they weren't at all interested in my advice on what to look for. After reading a couple the suggestions here, I think I'm going to secure to the bottom of my gear a small label listing the options using clear packing tape which survives pretty well over time.

797. TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-09 17:39:59 UTC
From: ea4tk
Topic: 797 Message: 797

Hi, my name is Frank, ea4tk.Someone sells a tr7a?.Thanks in advance.

798. TR7A modulation problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-09 22:34:10 UTC
From: wctaylor@juno.com
Topic: 798 Message: 798

Has anyone experienced a problem with their AM modulation changing on a TR7 or TR7A from dummy load to antenna? I can tune the radio into a load and it looks good on my station monitor scope. Then when I switch to the antenna the modulation will all but disappear. The SWR is about 1.2:1.0 and I don't have any problem at all on SSB. I was trying to talk to someone on 3880 and 3885 a few nights ago and noticed it. I don't like " tweaking the controls " while trying to contact someone, I'm sure people wouldn't appreciate it. If I switch back to the load everything looks fine.

Thanks in advance, 73's
Bill
KD4LXC

799. TR4C Realignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-11 09:38:13 UTC
From: qrp_monk
Topic: 799 Message: 799

I took out my old trusty TR4C out of mothballs and was hoping she
weathered the storage ok, but evidently she didn't fare well.
Lower sideband was real unstable but upper sideband was a bit better.
The AC4 power supply is where I will start and work my way through
that first.
The book says I need to use a VTVM on the C and luckily I still have
one, tho its been a while since I used it. Hope it still works...
So, if any here have helpful suggestions on any pitfalls I may
encounter and I realize I better replace the filter caps to modern specs.
Where is a good place to find these?
I never used this Drake on anything other than CW and I want to use it
for SSB. I need a high impedance microphone. I have two D104s, one
old, one newer, a Turner +2, Turner +3 and a Yaesu YD-148. Of these,
what what you use? The 104s are high impedance as is the Yaesu which
has a switch for high and low. The Turners which look pretty cool are
low impedance so may have to be modified if that is possible.
Oh yeah, this is my first post in this group and it is great to see
others who value real radios.

Bob Ka0zjo

800. Re: TR4C Realignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-11 17:16:12 UTC
From: d104_1
Topic: 799 Message: 800

The D104s are great. You can even use one without the impedance matching amplifier in the base since you need a high impedance microphone. I think the D104's look cool also.

--- In DrakeRadio@yahoogroups.com, "qrp_monk" <ka0zjo@...> wrote:
> I never used this Drake on anything other than CW and I want to use it
> for SSB. I need a high impedance microphone. I have two D104s, one
> old, one newer, a Turner +2, Turner +3 and a Yaesu YD-148. Of these,
> what what you use? The 104s are high impedance as is the Yaesu which
> has a switch for high and low. The Turners which look pretty cool are
> low impedance so may have to be modified if that is possible.
> Oh yeah, this is my first post in this group and it is great to see
> others who value real radios.
>
> Bob Ka0zjo
>

801. R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-11 19:08:25 UTC
From: Floyd Sense
Topic: 801 Message: 801

I recently acquired an R7 and just ran through the alignment procedure. I ran into one odd thing and hope that someone familiar with the R7 can explain it.

In section 3-10: AGC, IF Gain and S-meter final adjustment, Step "b" tells us to adjust the ABC bias pot (R1127) fully clockwise. Nowhere after that is any reference to R1127 made - the only adjustment seems to be to turn it fully clockwise. Seems that, since it's a pot, there would be some info on adjustment to something other than the full CW position. The alignment procedure went as expected and there were no problems, but this one has me puzzled.

73, Floyd

802. Re: [DrakeRadio] R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-11 21:52:55 UTC
From: Garey Barrell
Topic: 801 Message: 802

Hi Floyd -

You are correct, there is a "missing step" in the alignment procedure. I have a modified procedure at home, but I'm out of town this week. If no one else comes forward with the procedure, I'll be home the middle of next week.

I'd try to tell you from memory, but that's not a good idea!!!

73, Garey - K4OAH
St Charles, IL\

Floyd Sense wrote:
> I recently acquired an R7 and just ran through the alignment
> procedure. I ran into one odd thing and hope that someone familiar
> with the R7 can explain it.
>
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> tells us to adjust the ABC bias pot (R1127) fully clockwise. Nowhere
> after that is any reference to R1127 made - the only adjustment seems
> to be to turn it fully clockwise. Seems that, since it's a pot, there
> would be some info on adjustment to something other than the full CW
> position. The alignment procedure went as expected and there were no
> problems, but this one has me puzzled.
>
> 73, Floyd
>
>
>

803. Re: [DrakeRadio] R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-12 02:44:40 UTC
From: Don
Topic: 801 Message: 803

on the tr7 after adjusting the agc for peak, you go back to s-meter pot and adjust it to rest between 0 and 1, but making sure that it is above 0.
not sure if that applies to the r7 as well.
Don

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Friday, April 11, 2008 3:52 PM
Subject: Re: [DrakeRadio] R7 Alignment question

Hi Floyd -

You are correct, there is a "missing step" in the alignment procedure.
I have a modified procedure at home, but I'm out of town this week. If
no one else comes forward with the procedure, I'll be home the middle of
next week.

I'd try to tell you from memory, but that's not a good idea!!!

73, Garey - K4OAH
St Charles, IL\

Floyd Sense wrote:
> I recently acquired an R7 and just ran through the alignment
> procedure. I ran into one odd thing and hope that someone familiar
> with the R7 can explain it.
>
> In section 3-10: AGC, IF Gain and S-meter final adjustment, Step "b"
> tells us to adjust the ABC bias pot (R1127) fully clockwise. Nowhere
> after that is any reference to R1127 made - the only adjustment seems
> to be to turn it fully clockwise. Seems that, since it's a pot, there
> would be some info on adjustment to something other than the full CW
> position. The alignment procedure went as expected and there were no
> problems, but this one has me puzzled.
>
> 73, Floyd
>
>
>

[Non-text portions of this message have been removed]

804. Re: R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-12 17:16:46 UTC
From: Floyd Sense
Topic: 801 Message: 804

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Hi Floyd -
>
> You are correct, there is a "missing step" in the alignment procedure.
> I have a modified procedure at home, but I'm out of town this week. If
> no one else comes forward with the procedure, I'll be home the
middle of
> next week.
>
> I'd try to tell you from memory, but that's not a good idea!!!
>
> 73, Garey - K4OAH
> St Charles, IL\

Thanks - that's great, Garey. I have some other things to do
regarding integrating the R7 into the station here, so don't mind
waiting till next week. I've searched in all the usual places, but
could find nothing on the Web relating to the problem. I thought it
might be in VE3EFJ's info, but nothing there on it.

73, Floyd - K8AC

805. Re: R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-12 17:19:28 UTC
From: Floyd Sense
Topic: 801 Message: 805

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> on the tr7 after adjusting the agc for peak, you go back to s-meter pot and adjust it to rest between 0 and 1, but making sure that it is above 0.
> not sure if that applies to the r7 as well.
> Don

Hi Don. I've compared it to the TR7 procedures, but there are additional adjustments on the R7 and the adjustment values are just too different. For now, it's at least working.

73, Floyd - K8AC

806. Need a little more help with TR-4c

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-13 00:11:34 UTC
From: kd8esf
Topic: 806 Message: 806

I have a TR-4C that I was trying to put on the air tonight but I think I have a mic problem. The radio has the drake mic jack converted to a phono jack. Could someone please give me the exact wiring instructions for wiring a Shure 444D that has a phono plug? It looks to be currently wired as follows:

red wire to tip
white wire to ring
black (blue? not 100% sure on color but does look blue) lead to sleeve
I didn't do the wiring.

When I key the mic with this configuration the s-meter pegs. What could be wrong here. Any help is appreciated.

73
Don KD8ESF

807. Tr-3 loading problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-13 00:58:05 UTC
From: reab1021
Topic: 807 Message: 807

Ihave a Tr-3 that I can tune up to 100 watts. The 12jb6's are probablely weak but the loading control has very little effect. Is this due to the weak finals or could something else cause this.

808. Re: Need a little more help with TR-4c

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-13 06:11:46 UTC
From: f4ere
Topic: 806 Message: 808

--- In DrakeRadio@yahoogroups.com, "kd8esf" <kd8esf@...> wrote:
>
> I have a TR-4C that I was trying to put on the air tonight but I think
> I have a mic problem. The radio has the drake mic jack converted to a
> phono jack. Could someone please give me the exact wiring
> instructions for wiring a Shure 444D that has a phono plug? It looks
> to be currently wired as follows:
>
> red wire to tip
> white wire to ring
> black (blue? not 100% sure on color but does look blue) lead to sleeve
> I didn't do the wiring.
>
> When I key the mic with this configuration the s-meter pegs. What
> could be wrong here. Any help is appreciated.
>
> 73
> Don KD8ESF
>
for the tr4 , the mic line and the ptt line are inverted : mike on the ring and ptt on tip.... I think you have only to invert these wires on your jack !!! 73 , Serge.

809. SPR-4/FS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-13 22:44:43 UTC
From: querencias
Topic: 809 Message: 809

Anyone in the group have experience using the FS-4 with the SPR-4?

thanks, Grant

810. R4A RF AMP

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-14 19:25:09 UTC
From: captcurt2000
Topic: 810 Message: 810

Hi All:

Any downside to re-wiring the rf amp in a R-4A to use the 6 volt version of the 12BZ6?? ie the 6BZ6. Its a one wire change.

Thanks,

Curt
KU8L

811. Need MN7 switch cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-14 22:11:02 UTC
From: Floyd Sense
Topic: 811 Message: 811

I'm in need of one of the black plastic caps or knobs that goes over the end of the switch levers on the MN7 tuner. Anyone have one in the junk box?

812. Re: Need MN7 switch cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-14 22:47:02 UTC
From: toptyp19
Topic: 811 Message: 812

Hi Floyd-
I've purchased several Drake parts from "tr7dude" on eBay. I think
he worked for Drake. He has quite an inventory. Check him out.
Joe-WA9LAE.

--- In DrakeRadio@yahoogroups.com, "Floyd Sense" <floyd@...> wrote:
>
> I'm in need of one of the black plastic caps or knobs that goes over
> the end of the switch levers on the MN7 tuner. Anyone have one in the
> junk box?
>

813. Re: SW-2 Schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-15 00:14:41 UTC
From: deweygroups
Topic: 751 Message: 813

I got a call from Drake today re my SW-2. Looks like I blew out the whole front end. All the pin diodes and a couple of FET's. When I get it back, it will NEVER get close to an antenna used by one of my transceivers again. I had it on a grounding coax switch to a G5RV along with two of my tranceivers. Apparently, there was enough RF inside the switch when transmitting from a 100-watt transceiver, even though grounded, to zap the little receiver. Lesson learned!

Dick - W6CCD

--- In DrakeRadio@yahoogroups.com, "deweygroups" <w6ccd@...> wrote:
>
> Does anyone on here have a schematic for the Drake SW-2 receiver?
> Something in the front end went out yesterday. Everything works,
> except it doesn't receive anything. Before I send it to Swan for
> repair, I thought I might be able to spot something if I had a
> schematic. Thanks.
>
> Dick - W6CCD
>

814. Re: Need MN7 switch cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-15 11:11:28 UTC
From: Floyd Sense
Topic: 811 Message: 814

>
> Hi Floyd-
> I've purchased several Drake parts from "tr7dude" on eBay. I think
> he worked for Drake. He has quite an inventory. Check him out.
> Joe-WA9LAE.
>
Hi John. Yes - I've already tried John with no luck.

815. Re: [DrakeRadio] Re: R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-16 04:52:08 UTC
From: Garey Barrell
Topic: 801 Message: 815

Floyd -

Home again! :-)

Attached is the "corrected" alignment procedure. I think it originally
came from a French ham, but I can't find it to credit him.

I believe Lee, WB6SSW wrote up the attached, it agreed with what the
other guy said and was nicely written up so that's apparently what I kept.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Hi Floyd -
>>
>> You are correct, there is a "missing step" in the alignment procedure.
>> I have a modified procedure at home, but I'm out of town this week. If
>> no one else comes forward with the procedure, I'll be home the
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> middle of
>
>> next week.
>>
>> I'd try to tell you from memory, but that's not a good idea!!!
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>
> Thanks - that's great, Garey. I have some other things to do
> regarding integrating the R7 into the station here, so don't mind
> waiting till next week. I've searched in all the usual places, but
> could find nothing on the Web relating to the problem. I thought it
> might be in VE3EFJ's info, but nothing there on it.
>
> 73, Floyd - K8AC
>
>

[Non-text portions of this message have been removed]

816. Re: [DrakeRadio] Re: R7 Alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-16 05:59:59 UTC
From: Don
Topic: 801 Message: 816

Garey,
would you upload it to the "files" section ? Attachments have been disabled on the list.
or if you would prefer, maybe send to me it to me direct.
Thanks,
Don

drfrasher@...

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, April 15, 2008 10:52 PM
Subject: Re: [DrakeRadio] Re: R7 Alignment question

Floyd -

Home again! :-)

Attached is the "corrected" alignment procedure. I think it originally
came from a French ham, but I can't find it to credit him.

I believe Lee, WB6SSW wrote up the attached, it agreed with what the
other guy said and was nicely written up so that's apparently what I kept.

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Floyd Sense wrote:
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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>> Hi Floyd -
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>>
>> 73, Garey - K4OAH
>> St Charles, IL

>>
>
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> could find nothing on the Web relating to the problem. I thought it
> might be in VE3EFJ's info, but nothing there on it.
>
> 73, Floyd - K8AC
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

817. Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-16 15:33:43 UTC
From: Jose V. Gavila
Topic: 817 Message: 817

Hello!

I am working on an R-4B and have a problem which, for sure, someone has already had. It works fine on USB but signals sound garbled on LSB. Please, could you point me to the needed adjustment?

Thanks and best regards,

JOSE

---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm

European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

818. TR7 - temperature controlled fan note

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-16 16:56:44 UTC
From: Floyd Sense
Topic: 818 Message: 818

I recently installed the temperature-sensing fan control as described in the article "Improving the Drake TR7", by KB9Y in Communications Quarterly, 1992. The article suggests just placing the temperature sensing zener diode in the airstream in the middle of the heat sink without mounting it to anything. I followed that advice and encountered a problem that I expected: When the heat sink temperature rises, the fan comes on OK and the airstream soon cools, turning the fan off. In a few seconds, the heat sink radiates enough heat to turn the fan on again, and this cycle repeats for several minutes with each "on" period being shorter than the last.

Mounting the sensor to the heat sink eliminates this problem. I'm going to mount it permanently using some high temperature silicone compound to glue the sensor to the heat sink fins.

Another TR7 I acquired the other day already had a slightly different temperature controlled fan arrangement and with that sensor glued to the heat sink, there is no cycling of the fan after the initial cooling.

By the way, FAR Circuits sells a set of boards for this article and it includes the fan control board. Given the tendency of FAR boards to contain errors, and extra or missing land patterns, assembling the FAR board using this article is like working on a jigsaw puzzle. If all you want is the fan control function, I suggest just buying a small piece of perf board at Radio Shack and assembling the components on that. You can make it smaller than the FAR board and assembly time will be greatly reduced!

819. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-16 17:16:35 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 819

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /R7 alignment correction.pdf
Uploaded by : donfrasher <drfrasher@...>
Description :

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/R7%20alignment%20correction.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

donfrasher <drfrasher@...>

820. MN-4C tuner parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-17 22:14:54 UTC
From: john baker
Topic: 820 Message: 820

Hi guys,
I am tryings to fix my tuner. Am in need of the antenna sellector switch. The rear ceramic wafer split apart and I got the unit temporarily hardwired to no. 1 antenna.

Any ideas where I can get these parts? Also could use the rubber/plastic caps for the load range slides.

Thanks
73
jb
kgbiw

821. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-18 02:02:46 UTC
From: Garey Barrell
Topic: 99 Message: 821

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

822. Atlas DD-6 Digital Frequency Readout on TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-20 00:29:43 UTC
From: Martin
Topic: 822 Message: 822

Hello to all
<http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=140179508879&ssPageName=ADME:B:SS:CA:1123>
any of you use an Atlas DD-6 Digital Frequency Readout for 210-X or
215-X on TR4C ?
<http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=140179508879&ssPageName=ADME:B:SS:CA:1123>
Tnx
Martin
VE2EDK

823. Crystal for SP-75?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-20 23:36:31 UTC
From: Floyd Sense
Topic: 823 Message: 823

I have a sick SP-75 speech processor and find that the 459 khz crystal oscillator isn't oscillating. Voltages all look good, so perhaps the crystal is just flaky. Anyone have a good idea where to look for a replacement crystal with the same characteristics? I'm aware of the usual general sources, but are any of them willing and able to help when only a single item is involved?

824. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-21 07:16:22 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 824

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

825. CS-7 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-24 11:38:19 UTC
From: Ian Snow
Topic: 825 Message: 825

Need help. I'm trying to find a CS-7 Remote Antenna Switch manual/schematic. Trying to restore an unused station and get an old vet back on the air.

73,

Ian / VA3QT

826. R7 mute and AGC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-24 12:33:55 UTC
From: Floyd Sense
Topic: 826 Message: 826

I'll offer a solution here to a wierd problem I encountered with a recently acquired R7. This R7 had been sitting on someone's shelf for many years with no use.

This problem was intermittent, with no discernible pattern: When operating CW with the AGC M and Mute buttons pressed, returning to receive would result in the receiver being blocked with a recovery time of several seconds. If I switched to slow AGC (M&F buttons pressed), the problem wasn't there, but if I switched back to M, the same problem occurred. If I switched to F only, the problem was not there, but sometimes the RF gain control would not reduce the gain - it was always full on. Working any of the buttons in and out didn't seem to have any effect on the problem and it would suddenly disappear for hours at a time.

One day, I noticed that the problem occurred just after changing the AGC speed, so I suspected the pushbutton switches. I removed both banks of six pushbuttons from the front panel and sprayed a small amount of volume control cleaner into each switch. There aren't any obvious openings, so I just aimed at an area through which the spray might possibly get to the inside of the switch. It's been a few days since the treatment and the problem appears to be completely resolved. I suspect the problem might have been more than one dirty switch. If you have wierd AGC problems with your R7, you might want to give this a try.

827. AC4 Filter Caps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-25 08:50:00 UTC
From: qrp_monk
Topic: 827 Message: 827

Blew the dust off my old Drake TR4C and its been so much fun bringing it back to the land of the living radios. Made three contacts and was told I have a hum. I took it well.
My problem: My AC4 power supply looks like it has bad filter caps and I was wondering if any here knows where one may find replacements?
Bob in Colorado

828. RE: [DrakeRadio] AC4 Filter Caps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-25 11:03:54 UTC
From: Walter Milton
Topic: 827 Message: 828

Here is a link to get a kit to rebuild your AC3 or AC4 power supply. I have used three of his kits to rebuild my three AC4's and have NO problems with them. <http://www.theheathkitshop.com/drakeac4rreplace.html>
http://www.theheathkitshop.com/drakeac4rreplace.html

Walt. , KA2NJF
Psalm 1
A child of the living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of qrp_monk
Sent: Friday, April 25, 2008 4:50 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] AC4 Filter Caps

Blew the dust off my old Drake TR4C and its been so much fun bringing it back to the land of the living radios. Made three contacts and was told I have a hum. I took it well.
My problem: My AC4 power supply looks like it has bad filter caps and I was wondering if any here knows where one may find replacements?
Bob in Colorado

[Non-text portions of this message have been removed]

829. complete TR7 setup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-27 02:41:17 UTC
From: Mike
Topic: 829 Message: 829

I was given a COMPLETE set of Drake gear: TR7; MN2700 network; L7 amplifier & ps; RV7 remote vfo and PS7 power supply. Since I am about to put my IC-751a in the shop for "tune-up/mods". What should I expect out of the drake setup...other than a BIGGER work desk in the hamshack? I haven't tried the drake setup out yet, but have been told the TR7 has a slight delay after turning it on, is this normal for a solid state?

Question 2: will a G5RV handle a L7 amplifier for legal limit, or what antenna do the other members have to recommend for such a beast?

Counting my Blessing!

830. Problem with TR-7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-27 17:37:09 UTC
From: querencias
Topic: 830 Message: 830

After retrieving my TR-7a from the shed behind my house it no longer worked correctly. The frequency display was jumping all over the place but after a day of "cooking" the correct
frequency (as best I can tell) display stabilized and has been ok for several days.

No signals are heard and the transmitter produces no RF. Any suggestions for beginning the trouble shooting?

thanks
Grant/KT6L

831. Re: [DrakeRadio] Problem with TR-7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-27 23:08:48 UTC
From: Larry Taft
Topic: 830 Message: 831

"I sit therefore I quit."

Sounds like you need to take off all the covers, remove the display board, remove the inner compartment covers and pull and replug all the boards several times. You don't have to pull them out, just move them up and down 1/8th inch. Otherwise you'll have to unplug the little coax PITA cables too.

The Molex type pin/socket used on the boards are tinned, not gold so they corrode over time.

There are half a dozen screws that hold the mother board to the chassis and a couple of them are ground connections to give each one a tweak to tighten them.

After that its service manual and voltmeter time.

Larry K2LT
drakerepair.com

querencias wrote:
> After retrieving my TR-7a from the shed behind my house it no longer worked correctly.
> The frequency display was jumping all over the place but after a day of "cooking" the correct
> frequency (as best I can tell) display stabilized and has been ok for several days.
>
> No signals are heard and the transmitter produces no RF. Any suggestions for beginning the
> trouble shooting?
>
> thanks
> Grant/KT6L
>
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>
> Yahoo! Groups Links
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832. Re: [DrakeRadio] Problem with TR-7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-27 23:15:20 UTC
From: Don
Topic: 830 Message: 832

I myself am not sure of a specific area to check other than to start from the beggining.
do you have a copy of the service manual? it will certainly help out.
As your problem appears to be affecting both rx and tx, I would start checking for common areas.
first really good visual inspection for any signs of damage from water and such. check supply voltages.
de-oxit the band switches, the contacts of the individual boards and re-seat them all. and of course
double check all of the simple easy stuff, such as the antenna/coax.
If none of that turns up the problem, I would start with the alingment procedure in the manual until you
find the step that doesn't respond. I understand that the pin diodes can cause havoc, but i do not know
if it would give you those symptoms or not. I would tend think the small voltage control board, pbt board,
osc, relay.
Hopefully there will be some other on here with more knowledge of the TR7 and can give a better answer
to help you out.
keep us posted on your progress,
Don

----- Original Message -----
From: querencias
To: DrakeRadio@yahoogroups.com
Sent: Sunday, April 27, 2008 11:37 AM
Subject: [DrakeRadio] Problem with TR-7A

After retrieving my TR-7a from the shed behind my house it no longer worked correctly.
The frequency display was jumping all over the place but after a day of "cooking" the correct
frequency (as best I can tell) display stabilized and has been ok for several days.

No signals are heard and the transmitter produces no RF. Any suggestions for beginning the trouble shooting?

thanks
Grant/KT6L

[Non-text portions of this message have been removed]

833. Homebrew AUX-7 board

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-29 19:14:32 UTC
From: Floyd Sense
Topic: 833 Message: 833

I've documented a recent project involving the homebrewing of an AUX-7 board for the TR7 or R7. I'm presently using it in my TR7 and it works just fine. If you've wanted an AUX-7 board, but don't want to pay the absurdly high price, you might want to take a look: www.k8ac.net .

73, Floyd - K8AC

834. Re: [DrakeRadio] Homebrew AUX-7 board

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-04-30 02:57:42 UTC
From: Don
Topic: 833 Message: 834

Thanks ! Very well written !

Don

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, April 29, 2008 1:14 PM
Subject: [DrakeRadio] Homebrew AUX-7 board

I've documented a recent project involving the homebrewing of an AUX-7
board for the TR7 or R7. I'm presently using it in my TR7 and it
works just fine. If you've wanted an AUX-7 board, but don't want to
pay the absurdly high price, you might want to take a look:
www.k8ac.net .

73, Floyd - K8AC

[Non-text portions of this message have been removed]

835. Re: [DrakeRadio] Homebrew AUX-7 board

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-01 04:28:04 UTC
From: Chris Musselman
Topic: 833 Message: 835

That looks like a nice project, Floyd-thanks. 73-

Chris W6ATV

--- Floyd Sense <floyd@...> wrote:

> I've documented a recent project involving the
> homebrewing of an AUX-7
> board for the TR7 or R7. I'm presently using it in
> my TR7 and it
> works just fine. If you've wanted an AUX-7 board,
> but don't want to
> pay the absurdly high price, you might want to take
> a look:
> www.k8ac.net .
>
> 73, Floyd - K8AC
>
>

836. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-05 04:36:07 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 836

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

837. TR7 replacement LED display modules?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-09 12:18:42 UTC
From: Floyd Sense
Topic: 837 Message: 837

I recently acquired another TR7 and it's obvious that the display LEDs were once replaced since the new ones were not aligned very well. These LEDs are a bit different from the originals in that you can clearly see the actual LED in each segment whereas the originals had more of a frosted look with even illumination across each segment.

Photos I've seen of the LEDs sold by DF4NW appear to have a nice even illumination like the originals, so I wonder if these odd ones that I have were Drake replacements or from another source. Anyone have any info on this?

838. Cabinet repainting - great results!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 00:10:33 UTC
From: Floyd Sense
Topic: 838 Message: 838

I recently picked up an MN7 tuner that unfortunately had one of the bad sticky paint jobs. When considering how to refinish the cabinet shell, I ran across the article "Cabinet Repainting Basics" by Mark Gilger, WB0IQK. After reading his description of how to achieve the spackled black finish, I had my doubts about how good the result might be.

Well, I can report that the resulting finish is incredible and really worth the effort. You can hide minor surface imperfections with this type of paint job, and the overall cost is very low. The Wal-Marts around here no longer carry the Krylon semi-flat black paint, but I found it at a local hardware store. If you find yourself having to repaint a Drake cabinet, I highly recommend Mark's technique.

73, Floyd - K8AC

839. Re: [DrakeRadio] Cabinet repainting - great results!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 00:31:20 UTC
From: Jim Gerke
Topic: 838 Message: 839

I've been using Rustoleum Satin Black for repainting various 4-line cabinets. It's a near perfect match for the smooth finish cabinets used on the SW-4A, MN-4, MS-4 and MN-2000. Although it's not a textured paint, it also works very well for touching up the transmitter, receiver, and transceiver cabinets. As long as it's not applied too heavily, the original texture will still show up nicely.

The label says "7777 Black" and it has an SKU of 0-20066-77778-4. I've been buying it at Home Depot.

73, Jim K5JG

Floyd Sense wrote:
> I recently picked up an MN7 tuner that unfortunately had one of the bad
> sticky paint jobs. When considering how to refinish the cabinet shell,
> I ran across the article "Cabinet Repainting Basics" by Mark Gilger,
> WB0IQK. After reading his description of how to achieve the spackled
> black finish, I had my doubts about how good the result might be.
>
> Well, I can report that the resulting finish is incredible and really
> worth the effort. You can hide minor surface imperfections with this
> type of paint job, and the overall cost is very low. The Wal-Marts
> around here no longer carry the Krylon semi-flat black paint, but I
> found it at a local hardware store. If you find yourself having to
> repaint a Drake cabinet, I highly recommend Mark's technique.
>
> 73, Floyd - K8AC
>
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> Yahoo! Groups Links
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840. Re: [DrakeRadio] TR7 replacement LED display modules?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 01:42:28 UTC
From: Don
Topic: 837 Message: 840

while I am certainly not sure, I would suspect that they were from another souce. there's not many variations
on pinout for the led's, so they may have well been from a local parts house when it was done.
btw, thanks for the report on the paint job !
Also, recently a local ham here picked up a nearly complete tr7 station in truly mint like new condition, for
only $450.
I now really hate him !! hihi. I have seen much worse go for twice that. maybe someday i'll get that lucky.
Don

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Friday, May 09, 2008 6:18 AM
Subject: [DrakeRadio] TR7 replacement LED display modules?

I recently acquired another TR7 and it's obvious that the display LEDs
were once replaced since the new ones were not aligned very well.
These LEDs are a bit different from the originals in that you can
clearly see the actual LED in each segment whereas the originals had
more of a frosted look with even illumination across each segment.

Photos I've seen of the LEDs sold by DF4NW appear to have a nice even
illumination like the originals, so I wonder if these odd ones that I
have were Drake replacements or from another source. Anyone have any
info on this?

[Non-text portions of this message have been removed]

841. Re: [DrakeRadio] Cabinet repainting - great results!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 07:14:17 UTC
From: g4jss@tiscali.co.uk
Topic: 838 Message: 841

Floyd

Where did you see that article re cabinet painting, please.

Vic - G4JSS

----Original Message----
From: Jim.Gerke@...
Date: 10/05/2008 1:31
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Cabinet repainting - great results!

I've been using Rustoleum Satin Black for repainting various 4-line cabinets. It's a near perfect match for the smooth finish cabinets used on the SW-4A, MN-4, MS-4 and MN-2000. Although it's not a textured paint, it also works very well for touching up the transmitter, receiver, and transceiver cabinets. As long as it's not applied too heavily, the original texture will still show up nicely.

The label says "7777 Black" and it has an SKU of 0-20066-77778-4. I've been buying it at Home Depot.

73, Jim K5JG

Floyd Sense wrote:
> I recently picked up an MN7 tuner that unfortunately had one of the bad
> sticky paint jobs. When considering how to refinish the cabinet shell,
> I ran across the article "Cabinet Repainting Basics" by Mark Gilger,
> WB0IQK. After reading his description of how to achieve the spackled
> black finish, I had my doubts about how good the result might be.
>
> Well, I can report that the resulting finish is incredible and really
> worth the effort. You can hide minor surface imperfections with this
> type of paint job, and the overall cost is very low. The Wal-Marts
> around here no longer carry the Krylon semi-flat black paint, but I
> found it at a local hardware store. If you find yourself having to
> repaint a Drake cabinet, I highly recommend Mark's technique.
>
> 73, Floyd - K8AC
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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_____
Anti-malware PC protection - http://www.tiscali.co.uk/products/spyguard

[Non-text portions of this message have been removed]

842. Re: Cabinet repainting - great results!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 11:42:25 UTC
From: Floyd Sense
Topic: 838 Message: 842

>
> Where did you see that article re cabinet painting, please.
>
>
>
> Vic - G4JSS
>

You can find it at the WB4HFN website:
http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/CabinetRepainting.htm

73, Floyd

843. MN7 manual ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 15:38:14 UTC
From: Floyd Sense
Topic: 843 Message: 843

Anyone have a scanned downloadable manual for the MN7 tuner? I've been to all the usual sources on the web with no luck.

844. Re: [DrakeRadio] MN7 manual ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 15:44:31 UTC
From: Sprint
Topic: 843 Message: 844

Here you go:

http://www.mods.dk/_maNuals83g5/drake/MN-7_Instruction_manual@...

Joe Wolfe
WA6RKN

----- Original Message -----
From: "Floyd Sense" <floyd@...>
Subject: [DrakeRadio] MN7 manual ?

> Anyone have a scanned downloadable manual for the MN7 tuner? I've
> been to all the usual sources on the web with no luck.

845. Re: [DrakeRadio] MN7 manual ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 15:53:59 UTC
From: Garey Barrell
Topic: 843 Message: 845

Floyd -

How'd you miss this one???

<http://www.wb4hfn.com/DRAKE/DrakeManuals/MN7/Manual_MN7.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> Anyone have a scanned downloadable manual for the MN7 tuner? I've
> been to all the usual sources on the web with no luck.
>
>
>

846. Re: TR7 replacement LED display modules?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 16:15:44 UTC
From: Floyd Sense
Topic: 837 Message: 846

Yes - every now and then I hear about someone who comes across a steal on Drake gear. I needed another TR7 and had to buy a whole group of Drake gear from an estate to get it. As luck would have it, some of the stuff doesn't work properly, so there's some work to be done before I can sell it to regain my investment. The sticky paint on the MN7 was my first encounter with that situation and it sure was a mess.

"Don" <drfrasher@...> wrote:
>
> while I am certainly not sure, I would suspect that they were from another souce. there's not many variations
> on pinout for the led's, so they may have well been from a local parts house when it was done.
> btw, thanks for the report on the paint job !
> Also, recently a local ham here picked up a nearly complete tr7 station in truly mint like new condition, for
> only $450.
> I now really hate him !! hihi. I have seen much worse go for twice that. maybe someday i'll get that lucky.
> Don
>

847. Re: MN7 manual ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-10 20:01:47 UTC
From: Floyd Sense
Topic: 843 Message: 847

Good question! Especially since it's the first thing up on a Google search. I guess I've never used that site for manuals before, usually I find them easily at the Drake Museum site or Bama. I did do a Google search, but can't explain why I didn't dig into Ron's site when it popped up. Thanks for the tip.

73, Floyd

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Floyd -
>
> How'd you miss this one???
>
> <http://www.wb4hfn.com/DRAKE/DrakeManuals/MN7/Manual_MN7.htm>
>
> 73, Garey - K4OAH

848. Drake Microphone?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-13 17:28:35 UTC
From: Mike-K5VSE
Topic: 848 Message: 848

Hi to all the list,

I have come into possession of a Drake hand mic. The only markings on it are RLD P/N 3640201. Can anyone tell me what the impedance of this mic might be. It came with a 4 pin female connector on it. Appears to be brand new as well. I am thinking of using it on an old Yaesu FT-101 series transceiver.

Thanks for any info you guys might have.

Mike/K5VSE

849. MN-4C parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-15 19:30:23 UTC
From: john
Topic: 849 Message: 849

Hi guys,
Trying to fix this tuner. In need of the antenna sellector ceramic wafer section. Also looking for the plastic tabs that slide on the two loading range sellector levers. Anyone on board happen to have a donor rig?

thanks
73
jb
kg6biw

[Non-text portions of this message have been removed]

850. T-4XC / R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-15 19:41:35 UTC
From: nealbrusa
Topic: 850 Message: 850

What cables should be used with this radio if the factory cables are missing?

851. RE: [DrakeRadio] T-4XC / R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-15 19:51:42 UTC
From: James Chaggaris
Topic: 850 Message: 851

Go here----> http://www.wb4hfn.com/SALES/ForsaleHomePage.htm

Best Regards,

Jim

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 110
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of nealbrusa
Sent: Thursday, May 15, 2008 2:42 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] T-4XC / R4C

What cables should be used with this radio if the factory cables are missing?

[Non-text portions of this message have been removed]

852. Re: [DrakeRadio] T-4XC / R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-15 19:53:11 UTC
From: Garey Barrell
Topic: 850 Message: 852

All original cables were 38" long tip-to-tip.

The INJ and CAR OSC cables used a foam inner dielectric and phono connectors with a white insulation. This cable measures 60 pF total capacity.

All other cables used the standard for the day clear polyethelene inner dielectric and phenolic (brown) insulated phono connectors and measures ~100 pF.

Original Drake INJ and CAR OSC Cables = 19 pF/ft = .160" o.d. (foam poly)

RG-62 = 93R = 13.5 pF/ft = 0.240" o.d.
RG-59 = 75R = 14.8 pF/ft = 0.242" o.d.
RG-6 = 75R = 16.2 pF/ft = 0.270" o.d.
RG-174= 50R = 30.8 pF/ft = 0.110" o.d.
Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
Mic Cable (Belden 8421) = Hi-Z = 16 pf/ft = 0.180" o.d. (foam poly)
R/S Audio Patch Cable = 28 pF/ft = 0.165" o.d. (poly)

The best choice is the Belden 8421 Audio cable from their "Brilliance" line. It looks just like the other cables, and is very flexible. The RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also prone to shorting if bent over too small a radius, and is susceptible to heat damage when soldering connectors. The best "feature" of RG-62 is that it is often FREE, since there have been many miles of it pulled out of old computer networks. Belden 8421 is available by the foot from ACK Electronics in Atlanta. Other distributors have it as well, although many require purchase of a full spool.

The only pertinent factor is the total capacity. Impedance and "loss" are not important.

Any _reasonably low capacity_ coax will work if the units are cabled together for the adjustment of the INJ trimmers.

The cable type ONLY affects the LEVEL of the PreMix signal, (5.645 MHz ABOVE the transmit/receive frequency,) and a small DC control voltage between the two. If the shunt capacity is too high, insufficient LO level for the first mixer will reduce the sensitivity of the receiver and the output power of the transmitter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

nealbrusa wrote:
> What cables should be used with this radio if the factory cables are
> missing?
>
>
>
>

853. L-7 wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-16 17:40:48 UTC
From: DC
Topic: 853 Message: 853

Does anyone have a nice L-7 amp they want to part with?
ty
73
KD8Z@...
Dale

[Non-text portions of this message have been removed]

854. Re: [DrakeRadio] L-7 wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-16 18:35:54 UTC
From: K4GM-George
Topic: 853 Message: 854

I have a nice L4B for sale.

George K4GM

DC wrote:
>
> Does anyone have a nice L-7 amp they want to part with?
> ty
> 73
> KD8Z@... <mailto:KD8Z%40ARRL.NET>
> Dale
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

855. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-18 03:41:22 UTC
From: Mike
Topic: 855 Message: 855

I'm new to using the Drake equipment and started using my TR7 today with a couple of question to ask: 1) When I place the Mode selector in CW, is it suppose to key the rig automatically "without a keyer"?

2)Is there anyway to adjust the output on this rig or does it trasmit 100% all the time or is this the function of the Mic gain/Carrier switch?

Thanks,
Mike, WD5CCW

856. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 05:48:36 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 856

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

857. HW power supply with Drake equipment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 11:47:22 UTC
From: Bill and Pat
Topic: 857 Message: 857

Hi everyone, Over the weekend I scored a TR-3 but no power supply.
Seems to me one could wire a HP-23 power supply to furnish the required
voltages, Anyone ever done that? Anything out of the ordinary I should
be aware of? Thanks
Bill

858. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 11:50:49 UTC
From: Floyd Sense
Topic: 855 Message: 858

Not sure what you mean by "key the rig automatically". Switching the mode selector to CW puts you in CW mode and makes the key jack active. You can then key the rig with any type of key or keyer you want. There is no way to create CW output without closing the key jack contacts, that is, there's no "tune" switch.

The CW output power level is set with the carrier pot. For full output, you turn it clockwise until the LED comes on when you hit the key. On SSB, output level can be controlled with the mic gain and the arrier level control has no effect.

859. Re: [DrakeRadio] HW power supply with Drake equipment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 14:25:02 UTC
From: Garey Barrell
Topic: 857 Message: 859

Bill -

The HP23 is a little underpowered for the TR-3. You can probably get away with it, but ...

The '23 is rated for 700 VDC @ 300 mA at a 50% duty cycle.

The TR-3 needs 650 VDC @ 300 mA AVERAGE, 500 mA Peak.

These power levels are the difference between two 6146 and three 12JB6, or 120 W vs 220 W output.

The 250 VDC @ 175 mA low voltage is OK, and the 12.6 VAC filament voltage at 5.5A is ok.

So if you don't hold the key down too long, or whistle into the mic ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Bill and Pat wrote:
> Hi everyone, Over the weekend I scored a TR-3 but no power supply.
> Seems to me one could wire a HP-23 power supply to furnish the required
> voltages, Anyone ever done that? Anything out of the ordinary I should
> be aware of? Thanks
> Bill
>
>

860. Re: [DrakeRadio] HW power supply with Drake equipment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 14:48:19 UTC
From: Tim Kass
Topic: 857 Message: 860

Garey is right, I have used HP-23's for a TR-4 in the past, also...dont forget to watch the bias, its adjustable from the Heath power supply.

73, Tim K8WBL

Garey Barrell <k4oah@...> wrote:
Bill -

The HP23 is a little underpowered for the TR-3. You can probably get
away with it, but ...

The '23 is rated for 700 VDC @ 300 mA at a 50% duty cycle.

The TR-3 needs 650 VDC @ 300 mA AVERAGE, 500 mA Peak.

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or 120 W vs 220 W output.

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Glen Allen, VA

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Bill and Pat wrote:
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> Seems to me one could wire a HP-23 power supply to furnish the required
> voltages, Anyone ever done that? Anything out of the ordinary I should
> be aware of? Thanks
> Bill
>
>

[Non-text portions of this message have been removed]

861. Accessory list for T-4XC R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 20:19:46 UTC
From: nealbrusa
Topic: 861 Message: 861

What are the extra's that go with this radio?

862. Re: [DrakeRadio] Accessory list for T-4XC R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 20:36:28 UTC
From: Garey Barrell
Topic: 861 Message: 862

See

<http://www.dproducts.be/drake_museum/4line.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

nealbrusa wrote:
> What are the extra's that go with this radio?
>
>
>

863. Drake 1-A Rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 21:54:29 UTC
From: Larry Taft
Topic: 863 Message: 863

Garey,

Any info on the 1-A? I'm working on SN 642 and the question is about the power line fuse. Pictures and later info show an inline fuse inside the cabinet and a 5/8" hole in the back panel. The inline fuse holder in 642 is not original.

I have SN 619 which has a bulkhead mount fuse holder in the hole and the wiring looks original. I suspect a production line change.

73, Larry K2LT
drakerepair.com 800-687-9161

864. Re: [DrakeRadio] Drake 1-A Rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 22:34:37 UTC
From: Garey Barrell
Topic: 863 Message: 864

Hi Larry -

Well, I've never seen one with a fuse holder. Mine (1957) had an internal fuse. I seem to recall it was a pigtail fuse tucked down alongside the power transformer, but .... I have photos of s/n's 518, 708, 806, 911 and 1056, and none of those have anything in the hole!

I've never seen a "reason" for that hole in the back panel. I don't know of any fuseholders that had mounting screws, more likely it was intended originally for a 7 pin miniature tube socket, for ...?? Possible Q-Mult, or other accy? Also wouldn't imagine you'd want to route the AC line up near the speaker and output transformer!

The only "almost official" version that I have ever seen (changes to 6BF6 AVC circuit) was Version 2 at s/n 453. The original schematic also showed a primary fuse, so it was "always" there.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Larry Taft wrote:
> Garey,
>
> Any info on the 1-A? I'm working on SN 642 and the question is about
> the power line fuse. Pictures and later info show an inline fuse
> inside the cabinet and a 5/8" hole in the back panel. The inline fuse
> holder in 642 is not original.
>
> I have SN 619 which has a bulkhead mount fuse holder in the hole and
> the wiring looks original. I suspect a production line change.
>
> 73, Larry K2LT
> drakerepair.com 800-687-9161
>
>
>

865. Re: [DrakeRadio] HW power supply with Drake equipment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 23:51:59 UTC
From: cheops210
Topic: 857 Message: 865

Thanks Garey, I never really considered the third tube. Oh well I am porobably better off waiting until I can locate the proper supply. Or worse case find a transformer rated at half an amp average at 600 volts. I may ask about locally before beginning a country wide search. I try to stay away from Ebay for such if I can. Thanks again and have a safe week!
Bill, WD5DZG
www.willydog5.com
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, May 19, 2008 9:25 AM
Subject: Re: [DrakeRadio] HW power supply with Drake equipment?

Bill -

The HP23 is a little underpowered for the TR-3. You can probably get
away with it, but ...

The '23 is rated for 700 VDC @ 300 mA at a 50% duty cycle.

The TR-3 needs 650 VDC @ 300 mA AVERAGE, 500 mA Peak.

These power levels are the difference between two 6146 and three 12JB6,
or 120 W vs 220 W output.

The 250 VDC @ 175 mA low voltage is OK, and the 12.6 VAC filament
voltage at 5.5A is ok.

So if you don't hold the key down too long, or whistle into the mic ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Bill and Pat wrote:
> Hi everyone, Over the weekend I scored a TR-3 but no power supply.
> Seems to me one could wire a HP-23 power supply to furnish the required
> voltages, Anyone ever done that? Anything out of the ordinary I should
> be aware of? Thanks
> Bill
>
>

[Non-text portions of this message have been removed]

866. Re: [DrakeRadio] HW power supply with Drake equipment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-19 23:56:49 UTC
From: cheops210
Topic: 857 Message: 866

Thanks Tim, I will remember the bias ifd I decide to try a 23. I am thinking I would probably be better off to wait until I can locate a drake PS or at least atransformer capable of supplying the needed power. Have a safe Week!
Bill, WD5DZG
www.willydog5.com
----- Original Message -----
From: Tim Kass
To: DrakeRadio@yahoogroups.com
Sent: Monday, May 19, 2008 9:48 AM
Subject: Re: [DrakeRadio] HW power supply with Drake equipment?

Garey is right, I have used HP-23's for a TR-4 in the past, also...dont forget to watch the bias, its adjustable from the Heath power supply.

73, Tim K8WBL

Garey Barrell <k4oah@...> wrote:
Bill -

The HP23 is a little underpowered for the TR-3. You can probably get away with it, but ...

The '23 is rated for 700 VDC @ 300 mA at a 50% duty cycle.

The TR-3 needs 650 VDC @ 300 mA AVERAGE, 500 mA Peak.

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Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Bill and Pat wrote:
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> Seems to me one could wire a HP-23 power supply to furnish the required
> voltages, Anyone ever done that? Anything out of the ordinary I should
> be aware of? Thanks
> Bill
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

867. 4 'C' line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-20 15:27:48 UTC
From: Victor Waddington
Topic: 867 Message: 867

Hi
Seem to recall someone who made facias for the T-4/R4 but I somehow lost the info. Anyone help, please.

Vic - G4JSS

868. Re: [DrakeRadio] 4 'C' line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-20 15:48:26 UTC
From: mdewey@allegiance.tv
Topic: 867 Message: 868

Yup,

That would be Tony Mills.

Here is his email address: kf8mw@...

Just let him know what you are looking for and he probably has it.

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

869. Re: [DrakeRadio] Drake 1-A Rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-20 18:12:49 UTC
From: Garey Barrell
Topic: 863 Message: 869

Larry -

I couldn't stand it! So I asked Bill.

He doesn't recall any specific plan, but pointed out that it is the standard "punch" for the Cinch 4-Pin plug that was used on all the rest of the 2 and 4-Line receivers, and was included for potential "home-brew" add-ons. (Hams still did that in those days! :-)) I had suggested a possible Q-Multiplier, which of course they didn't have at that time, but would certainly have been a worthwhile addition for anyone wanting to use the 1-A on CW in light of the lack of filtering narrower than the 2.5 kHz Passband tuner. The 1100 kHz IF would preclude the use of the Heath QF-1, which was designed for 450-460 kHz. It might have been possible to get the QF-1 to work at 1100 kHz, but I don't remember anyone doing it. Also, the required power and grid connections required for a Q-Mult could have been picked off "above chassis" by a simple adapter under the first mixer tube.

So your fuse holder was a "field mod". I have since found another photo of a unit with a Motorola "automotive" style antenna connector (like used in car radios,) mounted in that hole, also not original,

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Larry Taft wrote:
> Garey,
>
> Any info on the 1-A? I'm working on SN 642 and the question is about
> the power line fuse. Pictures and later info show an inline fuse
> inside the cabinet and a 5/8" hole in the back panel. The inline fuse
> holder in 642 is not original.
>
> I have SN 619 which has a bulkhead mount fuse holder in the hole and
> the wiring looks original. I suspect a production line change.
>
> 73, Larry K2LT
> drakerepair.com 800-687-9161
>
>

870. Re: [DrakeRadio] Drake 1-A Rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-21 05:05:13 UTC
From: Larry Taft
Topic: 863 Message: 870

Thanks Garey, I was going to bump Bill about that but got
sidetracked in defending my radio turf as two grandsons have moved
back in between semesters.

73, Larry K2LT
drakerepair.com 800-687-9161

Garey Barrell wrote:
> Larry -
>
> I couldn't stand it! So I asked Bill.
>

871. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-23 01:13:38 UTC
From: Mike
Topic: 855 Message: 871

Floyd,
Thanks for the reply! Since I am new to this rig (given to me)and still finding things out, I found that a shorted keyer plug had a been placed in the cw keyer jack to make the rig key automatically. I guess the other operator used this rig for mostly ssb. I guess you can vary the output via the carrier for cw with no harm to the rig. I did get alot of 599 reports with the rig green LED on. This rig is a Hoss!
Mike, WD5CCW
--- In DrakeRadio@yahoogroups.com, "Floyd Sense" <floyd@...> wrote:
>
> Not sure what you mean by "key the rig automatically". Switching the
> mode selector to CW puts you in CW mode and makes the key jack active.
> You can then key the rig with any type of key or keyer you want. There
> is no way to create CW output without closing the key jack contacts,
> that is, there's no "tune" switch.
>
> The CW output power level is set with the carrier pot. For full
> output, you turn it clockwise until the LED comes on when you hit the
> key. On SSB, output level can be controlled with the mic gain and the
> arrier level control has no effect.
>

872. Re: Problem with TR-7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-24 12:52:46 UTC
From: Mike
Topic: 830 Message: 872

I have the same problem on my TR-7. But it is only doing that on 10 & 15 meter band. Looks like a summer project is on the horizon.
Mike
--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> I myself am not sure of a specific area to check other than to start from the beggining.
> do you have a copy of the service manual? it will certainly help out.
> As your problem appears to be affecting both rx and tx, I would start checking for common areas.
> first really good visual inspection for any signs of damage from water and such. check supply voltages.
> de-oxit the band switches, the contacts of the individual boards and re-seat them all. and of course
> double check all of the simple easy stuff, such as the antenna/coax.
> If none of that turns up the problem, I would start with the alingment procedure in the manual until you
> find the step that doesn't respond. I understand that the pin diodes can cause havoc, but i do not know
> if it would give you those symptoms or not. I would tend think the small voltage control board, pbt board,
> osc, relay.
> Hopefully there will be some other on here with more knowledge of the TR7 and can give a better answer
> to help you out.
> keep us posted on your progress,
> Don
>
>
> ----- Original Message -----
> From: querencias
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, April 27, 2008 11:37 AM
> Subject: [DrakeRadio] Problem with TR-7A
>
>
> After retrieving my TR-7a from the shed behind my house it no longer worked correctly.
> The frequency display was jumping all over the place but after a day of "cooking" the correct
> frequency (as best I can tell) display stabilized and has been ok for several days.
>
> No signals are heard and the transmitter produces no RF. Any

suggestions for beginning the
> trouble shooting?
>
> thanks
> Grant/KT6L
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

874. New T-4XB problem, just cropped up.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-25 16:37:33 UTC
From: w3rxo
Topic: 874 Message: 874

I have a T-4XB, which was recently aligned by Jeff Covelli. It has been working perfectly, since getting it back from him. However, I just moved my entire shack from one end of my house to the other, and after making all connections, and double checking them for being tight, and in the correct order, I am having a problem. I guess that I knocked something out of adjustment, maybe the anti vox, or some other easily accessed side, or rear panel, control. I can tune up, just fine. I can use my Palstar DL2K as an antenna, just fine, in the manner it was intended. I can back the power down, and use the "tune" function to bring the antenna into tune with my Palstar AT4K. But when I try to put a SSB signal out on 75/80M, I get a buzzing noise, when I try to talk. Power up, or down, matters not. When I modulate into my Heil Fin micprophone, i simply get buzzing, instead of a voice signal. Can anyone point to where I might look, to see what got knocked out of adjustment? It only does this when I am modulating an SSB signal, into either my wire antenna, or my Butternut HF6V. When I switch back to the dummy load, it sounds perfect in the headphone monitor, and the meters move in conjunction with the speech being transmitted.

875. RE: [DrakeRadio] New T-4XB problem, just cropped up.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-25 16:53:51 UTC
From: Steve Finch
Topic: 874 Message: 875

Just a thought ☐ You may have changed the length of your antenna feed line and now you have an RF hot spot at the shack and are getting RF into your mic circuits. One way to test this is to add 6-12 feet of coax onto your feed line and see if you still get the same buzzing.

Steve

AIØW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of w3rxo
Sent: Sunday, May 25, 2008 10:38 AM
To: DrakeRadio@...m
Subject: [DrakeRadio] New T-4XB problem, just cropped up.

I have a T-4XB, which was recently aligned by Jeff Covelli. It has been working perfectly, since getting it back from him. However, I just moved my entire shack from one end of my house to the other, and after making all connections, and double checking them for being tight, and in the correct order, I am having a problem. I guess that I knocked something out of adjustment, maybe the anti vox, or some other easily accessed side, or rear panel, control. I can tune up, just fine. I can use my Palstar DL2K as an antenna, just fine, in the manner it was intended. I can back the power down, and use the "tune" function to bring the antenna into tune with my Palstar AT4K. But when I try to put a SSB signal out on 75/80M, I get a buzzing noise, when I try to talk. Power up, or down, matters not. When I modulate into my Heil Fin micprophone, i simply get buzzing, instead of a voice signal. Can anyone point to where I might look, to see what got knocked out of adjustment? It only does this when I am modulating an SSB signal, into either my wire antenna, or my Butternut HF6V. When I switch back to the dummy load, it sounds perfect in the headphone monitor, and the meters move in conjunction with the speech being transmitted.

[Non-text portions of this message have been removed]

876. Re: New T-4XB problem, just cropped up.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-25 20:35:33 UTC
From: w3rxo
Topic: 874 Message: 876

Thanks for the suggestion, Steve. That could be a likely culprit. But, this morning, after posting, I wired up my old Astatic G-stand 10-DA, and it eliminated the problem. And, I didn't change the length of the feedline to the wire, and it does so on the wire, also. That doesn't mean that your suggestion isn't the problem, I will add that length of coax and see. Because I do not want to run the Astatic. I didn't spend $200, plus the cost of a Behringer EQ and a boom, to just "look" at the Heil. So, I am willing to look at most any potential solution to my problem.
Also, my finals were getting a bit flat, so I replaced them, and checked neutralization. That brought my output power up from around 90 watts, to somewhere closer to 150 watts, depending on the accuracy of my meters (which we all know that anything, with the exception of a Bird, with the proper slugs, is notoriously inaccurate), but it didn't help with the problem I mentioned.
Dan Galligan
W3RXO

877. RE: [DrakeRadio] Re: New T-4XB problem, just cropped up.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-25 21:12:02 UTC
From: Steve Finch
Topic: 874 Message: 877

Another suggestion -

The Heil mic and Behringer EQ will have op amps in their circuitry. These circuits are more susceptible to RF and power supply hum than a single mic. Check the grounding and make sure the mic, equalizer and rig are at a common ground. If you are using a wall wart to power the equalizer, wall warts are famous at having poorly regulated dc.

Steve

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of w3rxo
Sent: Sunday, May 25, 2008 2:36 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: New T-4XB problem, just cropped up.

Thanks for the suggestion, Steve. That could be a likely culprit. But, this morning, after posting, I wired up my old Astatic G-stand 10-DA, and it eliminated the problem. And, I didn't change the length of the feedline to the wire, and it does so on the wire, also. That doesn't mean that your suggestion isn't the problem, I will add that length of coax and see. Because I do not want to run the Astatic. I didn't spend $200, plus the cost of a Behringer EQ and a boom, to just "look" at the Heil. So, I am willing to look at most any potential solution to my problem.
Also, my finals were getting a bit flat, so I replaced them, and checked neutralization. That brought my output power up from around 90 watts, to somewhere closer to 150 watts, depending on the accuracy of my meters (which we all know that anything, with the exception of a Bird, with the proper slugs, is notoriously inaccurate), but it didn't help with the problem I mentioned.
Dan Galligan
W3RXO

[Non-text portions of this message have been removed]

878. 4 'C' line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 15:07:50 UTC
From: Victor Waddington
Topic: 867 Message: 878

Hello
Now here's an optimistic one. Anyone out there got a spare set of nylon tuning drive cogs for the 4 series and the perspex dials? Don't need the PTO.
Well, if you don't ask you don't know!!

Vic - G4JSS

879. WTB R-4C junker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 15:38:18 UTC
From: vk5abc
Topic: 879 Message: 879

Hello Everyone

Is there anyone here with R-4C junker suitable to rebuild that they
are willing to sell or otherwise
as long as the front end is complete. I would like to hear from you.
BTW anyone with a spare AM filter for a TR-7?
73 Lee VK5ABC

880. I want to connect an Alpha amp to my T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 17:49:20 UTC
From: w3rxo
Topic: 880 Message: 880

The Alpha calls for connection to an ALC circuit. I see an AGC connection on my AC-4, but no ALC connection. Do I just (RCA to RCA plug) jumper these two connections, between the AC-4 and the Alpha 374A? Or, do I have to rely on manually keeping the output power down on the T-4XB? The Alpha is an impressive amplifier, and I do not want to do anything to harm it, or the T-4XB. The Alpha, does a full KW average output, using the "no-tune" passband setting, with the transmitter backed off to only around 30-40 watts of drive. It makes me wonder if the transmitter is maybe averaging more on output, than the 30-40 watts the tune function gives me, when I "back it off".

881. RE: [DrakeRadio] I want to connect an Alpha amp to my T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 18:04:51 UTC
From: James Chaggaris
Topic: 880 Message: 881

AGC=ALC

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 110
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of w3rxo
Sent: Tuesday, May 27, 2008 12:49 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] I want to connect an Alpha amp to my T-4XC

The Alpha calls for connection to an ALC circuit. I see an AGC connection on my AC-4, but no ALC connection. Do I just (RCA to RCA plug) jumper these two connections, between the AC-4 and the Alpha 374A? Or, do I have to rely on manually keeping the output power down on the T-4XB? The Alpha is an impressive amplifier, and I do not want to do anything to harm it, or the T-4XB. The Alpha, does a full KW average output, using the "no-tune" passband setting, with the transmitter backed off to only around 30-40 watts of drive. It makes me wonder if the transmitter is maybe averaging more on output, than the 30-40 watts the tune function gives me, when I "back it off".

[Non-text portions of this message have been removed]

882. Re: [DrakeRadio] I want to connect an Alpha amp to my T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 18:15:05 UTC
From: Dan Galligan
Topic: 880 Message: 882

Thank you. I thought so, but didn't want to make any assumptions,
which could end up causing more problems.
Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...
"If you don't love it, leave it. Let this.....be your warning, When
you're running down my country man, you're walking on the fighting
side of me."
Merle Haggard

On May 27, 2008, at 11:04 AM, James Chaggaris wrote:

AGC=ALC

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 110
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

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the
original and any copy of this e-mail and any printout.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of w3rxo
Sent: Tuesday, May 27, 2008 12:49 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] I want to connect an Alpha amp to my T-4XC

The Alpha calls for connection to an ALC circuit. I see an AGC connection on my AC-4, but no ALC connection. Do I just (RCA to RCA plug) jumper these two connections, between the AC-4 and the Alpha 374A? Or, do I have to rely on manually keeping the output power down on the T-4XB? The Alpha is an impressive amplifier, and I do not want to do anything to harm it, or the T-4XB. The Alpha, does a full KW average output, using the "no-tune" passband setting, with the transmitter backed off to only around 30-40 watts of drive. It makes me wonder if the transmitter is maybe averaging more on output, than the 30-40 watts the tune function gives me, when I "back it off".

[Non-text portions of this message have been removed]

Yahoo! Groups Links

883. Re: I want to connect an Alpha amp.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-27 18:11:06 UTC
From: w3rxo
Topic: 883 Message: 883

My apologies, not that it will likely make much of a difference, but
that is a T-4XB, not a "C" that I am making the connection with.

884. Mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-05-31 23:36:57 UTC
From: pf596
Topic: 884 Message: 884

I recently purchased a TR4 which came with an unwired Sideband Expander mike, Turner Model 454H. I do have the S230 plug with terminal designations R,S,T. The mike has 3 wires a red, black and white, the white is in a foil wrap. Any help in wiring would be greatly appreciated. Thanks, Bob KC9MTW

886. Re: [DrakeRadio] Mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-01 00:05:55 UTC
From: Dan Galligan
Topic: 884 Message: 886

I've never had a TR4, but I have a T-4XB, and I believe they are the same. White should be the audio which would connect to the ring. Check for continuity between the foil and the red or black, if one is in contact with the shield (foil), with the mic switch open, it will connect to the shield of the s-230, and the remaining one should connect to the tip. If there is continuity between either, only when the mic is keyed, then that should connect to the tip, and the remaining one to the shield on the s-230 If there is no continuity between either the red, or black, and the shield, with the switch either open or closed, then it likely won't matter much which goes where, it simply closes the circuit to key the relay in the radio, but one will need to be connected in conjunction with the foil shield around the audio lead wire. I attached the schematic, from the Drake T-4XB manual. I don't know if it will allow you to open it through this site, but if not, email me directly, and I'll pass along the schematic. It is VERY simple. If I can figure it out.......you know the rest.
.

Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...
"If you don't love it, leave it. Let this.....be your warning, When you're running down my country man, you're walking on the fighting side of me."
Merle Haggard

On May 31, 2008, at 4:36 PM, pf596 wrote:

I recently purchased a TR4 which came with an unwired Sideband Expander mike, Turner Model 454H. I do have the S230 plug with terminal designations R,S,T. The mike has 3 wires a red, black and white, the white is in a foil wrap. Any help in wiring would be greatly appreciated. Thanks, Bob KC9MTW

Yahoo! Groups Links

[Non-text portions of this message have been removed]

887. Re: Mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-01 20:47:36 UTC
From: nealbrusa
Topic: 884 Message: 887

--- In DrakeRadio@yahoogroups.com, "pf596" <pf596@...> wrote:
>
http://bama.edebris.com/manuals/drake/tr4/

> I recently purchased a TR4 which came with an unwired Sideband
Expander
> mike, Turner Model 454H. I do have the S230 plug with terminal
> designations R,S,T. The mike has 3 wires a red, black and white, the
> white is in a foil wrap. Any help in wiring would be greatly
> appreciated. Thanks, Bob KC9MTW
>

888. Need TR7 tuning knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-01 22:24:23 UTC
From: Floyd Sense
Topic: 888 Message: 888

I'm in need of another main tuning knob for a TR7. If you have a nice looking one with no scratches on the aluminum insert, please email me.

889. TR7 owner with spectrum analyzer ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-01 23:40:29 UTC
From: Floyd Sense
Topic: 889 Message: 889

I'll soon have another and improved DDS VFO ready for use with the TR7, and am looking for someone with a TR7, spectrum analyzer and know-how to see what the TR7 output looks like using the DDS VFO. All you have to do is plug it into the RV7 connector on the rear of the TR7 and use it. It's powered from the TR7, so no power supply connection required. I would pay shipping both ways so all you'd be giving is your time. If you are interested in this, please email me at k8ac@.... Many thanks.

890. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-02 08:17:53 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 890

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

891. WTB, AC-4 power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-04 00:10:57 UTC
From: Mike-K5VSE
Topic: 891 Message: 891

Good evening all,

I am looking for a power supply, AC-4 for a TR-4 that I use out in my shop. It can have bad filters, because I will do the up-grade from Mike Bryce. I can't afford eBay prices, so you guys keep that in mind. I don't have a lot of money! Damn, I'm almost 70 and probably wont get to use it very long anyway. HI HI

You can contact me direct at: mdewey@...

Thanks es 73,
Mike/K5VSE

[Non-text portions of this message have been removed]

892. Re: WTB, AC-4 power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-05 23:20:39 UTC
From: john baker
Topic: 891 Message: 892

Mike,
Still, keep an eye on E-Bay. They have them on there all the time.
Keep your bids low and you may get lucky. Lately I have notice that
they have been going cheaper than I got mine, just months ago.

Hint: Wait till the last minute (half minute) to hit the last 'ok'
for your bid if it is still in your price range. That gives fewer
others a chance to take notice and bid up on you. It has worked
several times for me. It does take a little patience.
Be sure to use Paypal!! ...and check before you bid that the seller
does too.

Happy hunting.
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <mdewey@...> wrote:
>
> Good evening all,
>
> I am looking for a power supply, AC-4 for a TR-4 that I use out in
my
> shop. It can have bad filters, because I will do the up-grade from
Mike
> Bryce. I can't afford eBay prices, so you guys keep that in mind. I
> don't have a lot of money! Damn, I'm almost 70 and probably wont
get to
> use it very long anyway. HI HI
>
> You can contact me direct at: mdewey@...
>
> Thanks es 73,
> Mike/K5VSE
>
>
>
> [Non-text portions of this message have been removed]
>

893. Re: [DrakeRadio] Re: WTB, AC-4 power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-05 23:30:19 UTC
From: Dan Galligan
Topic: 891 Message: 893

Mike,
Drop me an email to my callsign (at) Mac (dot) com. I have a good deal for you. I have a spare, that I bought, "Just in case", then a short month later, I sent my primary one off to Jeff Covelli, and had the upgrade installed. This one works great, and has no problems. I just overpaid for it (on eBay, of course), and would be happier if I sold it to someone at a fair price, rather than trying to "rake someone over the coals" to get my full purchase price back. We can come to terms easily. I want to get it to someone who can actually use it.
Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...
"If you don't love it, leave it. Let this.....be your warning, When you're running down my country man, you're walking on the fighting side of me."
Merle Haggard

On Jun 5, 2008, at 4:20 PM, john baker wrote:

Mike,
Still, keep an eye on E-Bay. They have them on there all the time. Keep your bids low and you may get lucky. Lately I have notice that they have been going cheaper than I got mine, just months ago.

Hint: Wait till the last minute (half minute) to hit the last 'ok' for your bid if it is still in your price range. That gives fewer others a chance to take notice and bid up on you. It has worked several times for me. It does take a little patience.
Be sure to use Paypal!! ...and check before you bid that the seller does too.

Happy hunting.
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <mdewey@...> wrote:
>
> Good evening all,
>
> I am looking for a power supply, AC-4 for a TR-4 that I use out in my
> shop. It can have bad filters, because I will do the up-grade from Mike
> Bryce. I can't afford eBay prices, so you guys keep that in mind. I

> don't have a lot of money! Damn, I'm almost 70 and probably wont
get to
> use it very long anyway. HI HI
>
> You can contact me direct at: mdewey@...
>
> Thanks es 73,
> Mike/K5VSE
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

894. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-08 17:44:41 UTC
From: Garey Barrell
Topic: 99 Message: 894

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

895. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-13 09:38:47 UTC
From: Victor Waddington
Topic: 855 Message: 895

Hello all
Need a bit of advice, please.
Am interested in a TR7 which is in very good condition and working order Except one of the digits on the display (1st digit after the decimal point) loses a vertical segment on numbers that have a vertical segment on the right. Hard to describe but an 8 would show like a backwards 3.
Hope you understand what I am trying to say.
So, is this likely to be the counter unit or the LCD? If it's the display itself are replacements available?
He wants about £300 ($600) for it.
73
Vic - G4JSS

896. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-13 10:08:12 UTC
From: Javier Bartolome
Topic: 855 Message: 896

2008/6/13 Victor Waddington <g4jss@...>:

> Hello all
> Need a bit of advice, please.
> Am interested in a TR7 which is in very good condition and working
> order Except one of the digits on the display (1st digit after the
> decimal point) loses a vertical segment on numbers that have a
> vertical segment on the right. Hard to describe but an 8 would show
> like a backwards 3.
> Hope you understand what I am trying to say.
> So, is this likely to be the counter unit or the LCD? If it's the
> display itself are replacements available?
> He wants about £300 ($600) for it.
> 73
> Vic - G4JSS
>
> Messages in this topic
> <http://groups.yahoo.com/group/DrakeRadio/message/855;_ylc=X3oDMTMzZ21hMTkxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4OTUEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxMjEzMzQ5OTMwBHRwY0lkAzg1NQ-->(
> 4) Reply (via web post)
> <http://groups.yahoo.com/group/DrakeRadio/post;_ylc=X3oDMTJwYWVtcGMxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4OTUEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjEzMzQ5OTMw?act=reply&messageNum=895>| Start
> a new topic
> <http://groups.yahoo.com/group/DrakeRadio/post;_ylc=X3oDMTJmN2F0ZWdjBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEyMTMzNDk5MzA->
> Messages<http://groups.yahoo.com/group/DrakeRadio/messages;_ylc=X3oDMTJmMThub2RqBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNtc2dzBHN0aW1lAzEyMTMzNDk5MzA->|
> Files<http://groups.yahoo.com/group/DrakeRadio/files;_ylc=X3oDMTJnZ2p0NmxxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNmaWxlcwRzdGltZQMxMjEzMzQ5OTMw>|
> Photos<http://groups.yahoo.com/group/DrakeRadio/photos;_ylc=X3oDMTJma2doNmNyBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNwaG90BHN0aW1lAzEyMTMzNDk5MzA->|
> Links<http://groups.yahoo.com/group/DrakeRadio/links;_ylc=X3oDMTJna2dxZ29kBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNsaW5rcwRzdGltZQMxMjEzMzQ5OTMw>|
> Database<http://groups.yahoo.com/group/DrakeRadio/database;_ylc=X3oDMTJkYWFpNWVnBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNkYgRzdGltZQMxMjEzMzQ5OTMw>|
> Polls<http://groups.yahoo.com/group/DrakeRadio/polls;_ylc=X3oDMTJnbGYxbG5zBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNwb2xscwRzdGltZQMxMjEzMzQ5OTMw>|

> Members<http://groups.yahoo.com/group/DrakeRadio/members;_ylc=X3oDMTJmYjA4cHNsBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNtYnJzBHN0aW1lAzEyMTMzNDk5MzA->|
> Calendar<http://groups.yahoo.com/group/DrakeRadio/calendar;_ylc=X3oDMTJlZGo2MXRsBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNjYWwEc3RpbWUDMTIxMzM0OTkzMA-->
> MARKETPLACE
> Blockbuster is giving away a free trial of Blockbuster Total Access to
> smart movie lovers like you.<http://us.ard.yahoo.com/SIG=13rq8cd4b/M=624381.12730922.13032918.10835568/D=groups/S=1705063108:MKP1/Y=YAHOO/EXP=1213357131/L=/B=H.Y9AULaX9k-/J=1213349931119631/A=5368227/R=0/SIG=14evd63no/*http://media.adrevolver.com/adrevolver/href?banner=189158&place=26143&url_=http://tc.deals.yahoo.com/tc/blockbuster/display.com?cid=bbi00027>
> [image: Yahoo! Groups]<http://groups.yahoo.com/;_ylc=X3oDMTJlNjloN2wzBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTIxMzM0OTkzMA-->
> Change settings via the Web<http://groups.yahoo.com/group/DrakeRadio/join;_ylc=X3oDMTJndWxtZmF1BF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMjEzMzQ5OTMw>(Yahoo! ID required)
> Change settings via email: Switch delivery to Daily
Digest<DrakeRadio-digest@yahoogroups.com?subject=Email+Delivery:+Digest>| Switch
> format to Traditional<DrakeRadio-traditional@yahoogroups.com?subject=Change+Delivery+Format:+Traditional>
> Visit Your Group
> <http://groups.yahoo.com/group/DrakeRadio;_ylc=X3oDMTJlbzByOHJxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTIxMzM0OTkzMA-->|
Yahoo!
> Groups Terms of Use <http://docs.yahoo.com/info/terms/> | Unsubscribe
> <DrakeRadio-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
>
> - 1
> New Members<http://groups.yahoo.com/group/DrakeRadio/members;_ylc=X3oDMTJnNTJxNGV2BF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMjEzMzQ5OTMw>
>
> Visit Your Group
> <http://groups.yahoo.com/group/DrakeRadio;_ylc=X3oDMTJmcTZpcmE0BF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEyMTMzNDk5MzA->
> Wellness Spot
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13p3qc3fl/M=493064.12016299.12445691.11322765/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IOY9AULaX9k-/J=1213349931119631/A=4990212/R=0/SIG=11d53kq3t/*http://advision.webevents.yahoo.com/curves/>
>
> A resource for living
>
> the Curves lifestyle.
> Get in Shape
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13pt4iu1p/M=493064.12016300.12445692.113231

96/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IeY9AULaX9k-/J=1213349931119631/A=5170417/R=0/SIG=11b5gu1oe/*http://new.groups.yahoo.com/specialKgroup>
>
> Find a buddy
>
> and lose weight.
> Cat Fanatics
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13ovgqba8/M=493064.12016263.12445670.8674578/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IuY9AULaX9k-/J=1213349931119631/A=4836040/R=0/SIG=11olbte0b/*http://advision.webevents.yahoo.com/catzone/index.html>
>
> Find people who are
>
> crazy about cats.
> .
>
> --
>
Hi Vic, look at http://www.df4nw.de/44.html

73, de Frank ea4tk

>
> _73737_----------kkk,_._,___
>

[Non-text portions of this message have been removed]

897. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-13 13:45:03 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 897

Javier

Thanks for info. Looks like I can get what I need from the DF site you listed.

Many thanks.

73

Vic

----Original Message----
From: javierbartolome@...
Date: 13/06/2008 11:08
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] TR7

2008/6/13 Victor Waddington <g4jss@tiscali.co.uk>:

> Hello all
> Need a bit of advice, please.
> Am interested in a TR7 which is in very good condition and working
> order Except one of the digits on the display (1st digit after the
> decimal point) loses a vertical segment on numbers that have a
> vertical segment on the right. Hard to describe but an 8 would show
> like a backwards 3.
> Hope you understand what I am trying to say.
> So, is this likely to be the counter unit or the LCD? If it's the
> display itself are replacements available?
> He wants about £300 ($600) for it.
> 73
> Vic - G4JSS
>
> Messages in this topic
> <http://groups.yahoo.com/group/DrakeRadio/message/855;_ylc=X3oDMTMzZ21hMTkxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4OTUEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxMjEzMzQ5OTMwBHRwY0lkAzg1NQ-->(
> 4) Reply (via web post)
> <http://groups.yahoo.com/group/DrakeRadio/post;_ylc=X3oDMTJwYWVtcGMxBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4OTUEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjEzMzQ5OTMw?act=reply&messageNum=895>| Start
> a new topic
> <http://groups.yahoo.com/group/DrakeRadio/post;_ylc=X3oDMTJmN2F0ZWdjBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEyMTMzNDk5MzA->
> Messages<http://groups.yahoo.com/group/DrakeRadio/messages;_ylc=X3oDMTJmMThub2RqBF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNtc2dzBHN0aW1lAzEyMTMzNDk5MzA->|
> Files<http://groups.yahoo.com/group/DrakeRadio/files;_ylc=X3oDMTJnZ2p0NmxxBF9TAzk3MzU5Nz

E0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNmaWxlcwRzdGltZQMxMjEzMzQ5
OTMw>|
> Photos<http://groups.yahoo.com/group/DrakeRadio/photos;_ylc=X3oDMTJma2doNmNyBF9TAzk3MzU5
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k5MzA->|
> Links<http://groups.yahoo.com/group/DrakeRadio/links;_ylc=X3oDMTJna2dxZ29kBF9TAzk3MzU5Nz
E0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNsaW5rcwRzdGltZQMxMjEzMzQ5
OTMw>|
> Database<http://groups.yahoo.com/group/DrakeRadio/database;_ylc=X3oDMTJkYWFpNWVnBF9TAzk3
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Q5OTMw>|
> Polls<http://groups.yahoo.com/group/DrakeRadio/polls;_ylc=X3oDMTJnbGYxbG5zBF9TAzk3MzU5Nz
E0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNwb2xscwRzdGltZQMxMjEzMzQ5
OTMw>|
> Members<http://groups.yahoo.com/group/DrakeRadio/members;_ylc=X3oDMTJmYjA4cHNsBF9TAzk3Mz
U5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNtYnJzBHN0aW1lAzEyMTMz
NDk5MzA->|
> Calendar<http://groups.yahoo.com/group/DrakeRadio/calendar;_ylc=X3oDMTJlZGo2MXRsBF9TAzk3
MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNjYWwEc3RpbWUDMTIxMz
M0OTkzMA-->
> MARKETPLACE
> Blockbuster is giving away a free trial of Blockbuster Total Access to
> smart movie lovers like you.<http://us.ard.yahoo.com/SIG=13rq8cd4b/M=624381.12730922.130
32918.10835568/D=groups/S=1705063108:MKP1/Y=YAHOO/EXP=1213357131/L=/B=H.Y9AULaX9k-/J=12133
49931119631/A=5368227/R=0/SIG=14evd63no/*http://media.adrevolver.com/adrevolver/href?banne
r=189158&place=26143&url_=http://tc.deals.yahoo.com/tc/blockbuster/display.com?cid=bbi0002
7>
> [image: Yahoo! Groups]<http://groups.yahoo.com/;_ylc=X3oDMTJlNjloN2wzBF9TAzk3MzU5NzE0BGd
ycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTIxMzM0OTkzMA-->
> Change settings via the Web<http://groups.yahoo.com/group/DrakeRadio/join;_ylc=X3oDMTJnd
WxtZmF1BF9TAzk3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNzdG5
ncwRzdGltZQMxMjEzMzQ5OTMw>(Yahoo! ID required)
> Change settings via email: Switch delivery to Daily
Digest<DrakeRadio-digest@yahoogroups.com?subject=Email+Delivery:+Digest>| Switch
> format to Traditional<DrakeRadio-traditional@yahoogroups.com?subject=Change+Delivery+For
mat:+Traditional>
> Visit Your Group
> <http://groups.yahoo.com/group/DrakeRadio;_ylc=X3oDMTJlbzByOHJxBF9TAzk3MzU5NzE0BGdycElkA
zE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTIxMzM0OTkzMA-->|
Yahoo!
> Groups Terms of Use <http://docs.yahoo.com/info/terms/> | Unsubscribe
> <DrakeRadio-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
>
> - 1
> New Members<http://groups.yahoo.com/group/DrakeRadio/members;_ylc=X3oDMTJnNTJxNGV2BF9TAz
k3MzU5NzE0BGdycElkAzE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMx
MjEzMzQ5OTMw>
>
> Visit Your Group
> <http://groups.yahoo.com/group/DrakeRadio;_ylc=X3oDMTJmcTZpcmE0BF9TAzk3MzU5NzE0BGdycElkA

zE3OTg5NzkwBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEyMTMzNDk5MzA->
> Wellness Spot
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13p3qc3fl/M=493064.12016299.12445691.113227
65/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IOY9AULaX9k-/J=1213349931119631/A=
4990212/R=0/SIG=11d53kq3t/*http://advision.webevents.yahoo.com/curves/>
>
> A resource for living
>
> the Curves lifestyle.
> Get in Shape
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13pt4iu1p/M=493064.12016300.12445692.113231
96/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IeY9AULaX9k-/J=1213349931119631/A=
5170417/R=0/SIG=11b5gu1oe/*http://new.groups.yahoo.com/specialKgroup>
>
> Find a buddy
>
> and lose weight.
> Cat Fanatics
>
> on Yahoo! Groups<http://us.ard.yahoo.com/SIG=13ovgqba8/M=493064.12016263.12445670.867457
8/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1213357131/L=/B=IuY9AULaX9k-/J=1213349931119631/A=4
836040/R=0/SIG=11olbte0b/*http://advision.webevents.yahoo.com/catzone/index.html>
>
> Find people who are
>
> crazy about cats.
> .
>
> ~---~
>
Hi Vic, look at http://www.df4nw.de/44.html

73, de Frank ea4tk

>
> _73737_--kkk,_._,___
>

[Non-text portions of this message have been removed]

_____
25% off Tiscali SpyGuard from Sana only from Tiscali

[Non-text portions of this message have been removed]

898. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-14 02:13:52 UTC
From: Jim Pruitt
Topic: 855 Message: 898

Take a look at http://www.df4nw.de/

DF4NW, Willi sells a replacement display module for the TR7. It replaces all 6 digits in one module and is available in .3" (7.62mm original TR7 size) or .39" (9.9mm) which is slightly larger but still fits in the display window. The .39" are available in red, green or yellow and also a blue one is available for more money. Willi also has a multicolor module available in either .3" or .39" although the .3" has fewer colors to select from. The multicolor module is by special order.

You will find the modules to be good quality.

I hope that helps.

Jim

----- Original Message -----
From: Victor
To: DrakeRadio@yahoogroups.com
Sent: Friday, June 13, 2008 2:38 AM
Subject: [DrakeRadio] TR7

Hello all
Need a bit of advice, please.
Am interested in a TR7 which is in very good condition and working order Except one of the digits on the display (1st digit after the decimal point) loses a vertical segment on numbers that have a vertical segment on the right. Hard to describe but an 8 would show like a backwards 3.
Hope you understand what I am trying to say.
So, is this likely to be the counter unit or the LCD? If it's the display itself are replacements available?
He wants about ?300 ($600) for it.
73
Vic - G4JSS

899. Still looking for an affordable AC-4 power supply!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-14 05:02:06 UTC
From: Mike-K5VSE
Topic: 899 Message: 899

Hi all,

I am still looking for a power supply for use in my shop with a TR-4. I'm sure someone must have a spare they don't want an arm and leg for. I can't afford eBay prices. Getting too old to fool around with building up a homebrew supply as well. I've come across an old SB-200 wired for 120 that I can use to get on 7245 during the day. It still needs a little work, and probably a set of new finals. We'll just have to see how that one goes. Got parts ordered for it.

Thanks to all es 73

Mike/K5VSE

900. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-14 08:16:15 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 900

Hi all

Thanks for all info re TR7 display. Should be able to get fixed up now.

Vic - G4JSS

----Original Message----
From: wa7duy@...
Date: 14/06/2008 3:13
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] TR7

Take a look at http://www.df4nw.de/

DF4NW, Willi sells a replacement display module for the TR7. It replaces all 6 digits in one module and is available in .3" (7.62mm original TR7 size) or .39" (9.9mm) which is slightly larger but still fits in the display window. The .39" are available in red, green or yellow and also a blue one is available for more money. Willi also has a multicolor module available in either .3" or .39" although the .3" has fewer colors to select from. The multicolor module is by special order.

You will find the modules to be good quality.

I hope that helps.

Jim

----- Original Message -----
From: Victor
To: DrakeRadio@yahoogroups.com
Sent: Friday, June 13, 2008 2:38 AM
Subject: [DrakeRadio] TR7

Hello all
Need a bit of advice, please.
Am interested in a TR7 which is in very good condition and working order Except one of the digits on the display (1st digit after the decimal point) loses a vertical segment on numbers that have a vertical segment on the right. Hard to describe but an 8 would show like a backwards 3.
Hope you understand what I am trying to say.
So, is this likely to be the counter unit or the LCD? If it's the display itself are replacements available?
He wants about £300 ($600) for it.
73
Vic - G4JSS

25% off Tiscali SpyGuard from Sana only from Tiscali

[Non-text portions of this message have been removed]

901. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-16 09:08:06 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 901

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

902. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-19 00:18:41 UTC
From: Mike
Topic: 855 Message: 902

Impressive amount of colorful displays and not hard on the pocketbook either. Thanks for the info.
Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, "Jim Pruitt" <wa7duy@...> wrote:
>
> Take a look at http://www.df4nw.de/
>
> DF4NW, Willi sells a replacement display module for the TR7. It replaces
> all 6 digits in one module and is available in .3" (7.62mm original TR7
> size) or .39" (9.9mm) which is slightly larger but still fits in the
> display window. The .39" are available in red, green or yellow and also a
> blue one is available for more money. Willi also has a multicolor module
> available in either .3" or .39" although the .3" has fewer colors to select
> from. The multicolor module is by special order.
>
> You will find the modules to be good quality.
>
> I hope that helps.
>
> Jim
>
> ----- Original Message -----
> From: Victor
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, June 13, 2008 2:38 AM
> Subject: [DrakeRadio] TR7
>
> Hello all
> Need a bit of advice, please.
> Am interested in a TR7 which is in very good condition and working
> order Except one of the digits on the display (1st digit after the
> decimal point) loses a vertical segment on numbers that have a
> vertical segment on the right. Hard to describe but an 8 would show
> like a backwards 3.
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> display itself are replacements available?
> He wants about £300 ($600) for it.

> 73
> Vic - G4JSS
>

903. 500cx PA question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-24 03:09:48 UTC
From: Tim Stotenburg
Topic: 903 Message: 903

Good evening all,

I have been enjoying my Swan every night until last night. I had
replaced the g2/bias voltage resisters when I recapped. The resisters
R408 and 409 are 100 ohm going from bias to pin7(G2) of V4 and pin 1
of V5(6lq6).
I must have used improper wattage because last night they blew.
The schematics don't specify.
Can anyone help me out here.
Thanx and 73
Tim in Sac

904. Re: 500cx PA question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-24 03:21:46 UTC
From: Floyd Sense
Topic: 903 Message: 904

--- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@...>
wrote:
>
> Good evening all,
>
> I have been enjoying my Swan every night until last night. I had
> replaced the g2/bias voltage resisters when I recapped. The resisters
> R408 and 409 are 100 ohm going from bias to pin7(G2) of V4 and pin 1
> of V5(6lq6).
> I must have used improper wattage because last night they blew.
> The schematics don't specify.
> Can anyone help me out here.
> Thanx and 73
> Tim in Sac
>

Tim - here's a Swan-oriented site where you can ask technical questions
about Swan gear. I've not used it, but you may have better luck
there.

905. Re: 500cx PA question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-24 13:39:50 UTC
From: Floyd Sense
Topic: 903 Message: 905

Sorry - slip of the fingers. Here's the URL left out of my previous post: http://www.angelfire.com/ny2/hamradio/tech.html

73, K8AC

906. Re: 500cx PA question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-24 14:18:08 UTC
From: Tim Stotenburg
Topic: 903 Message: 906

Very helpful, thank you

907. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-30 08:00:35 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 907

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

908. FS: Unique Drake Service Information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-06-30 20:10:18 UTC
From: Garey Barrell
Topic: 99 Message: 908

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

909. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 08:22:19 UTC
From: Victor Waddington
Topic: 855 Message: 909

Lo All

Recently acquired a TR7 and just a couple of points that I would like to get sorted.
1) With the AF gain at absolute minimum I can still hear signals at a very comfortable level - is this normal?
2) On transmit I have a nice clean sidetone signal (CW) up to about 40w out. Above that the sidetone gets increasingly coarse as I up the power. Also as I increase above 40w the meter/analogue lamps dim considerably in sympathy with my keying.
I do not have a PS7 and am using a PSU rated at about 22amps. I suspect that when keying the PA's are taking all the gravy but I would have thought my PSU would have been capable of more than 40w without affecting the lamps.
Any ideas, please.
Vic - G4JSS

910. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 08:53:10 UTC
From: Victor Waddington
Topic: 855 Message: 910

Just a bit more about this. The PSU I use doesn't get above slightly warm and is not fan cooled. I have used it on other rigs without problem.If the PA's were pulling more than it could supply I would have thought the PSU would have hotted up.
Cheers
Vic

911. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 11:02:26 UTC
From: Floyd Sense
Topic: 855 Message: 911

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...>
wrote:
>
> Lo All
>
> Recently acquired a TR7 and just a couple of points that I would
like
> to get sorted.
> 1) With the AF gain at absolute minimum I can still hear signals at
a
> very comfortable level - is this normal?
> 2) On transmit I have a nice clean sidetone signal (CW) up to
about
> 40w out. Above that the sidetone gets increasingly coarse as I up
the
> power. Also as I increase above 40w the meter/analogue lamps dim
> considerably in sympathy with my keying.
> I do not have a PS7 and am using a PSU rated at about 22amps. I
suspect
> that when keying the PA's are taking all the gravy but I would have
> thought my PSU would have been capable of more than 40w without
> affecting the lamps.
> Any ideas, please.
> Vic - G4JSS
>

Hi Vic. I was a bit surprised when I fired up my first TR7 to be able to have audio output with the volume control all the way down. Mine isn't very loud at that setting, but the audio output level is enough to be annoying. Some have explained why that's a virtue, but to me it's just a deficient design. I've never seen another rig that behaves that way.

Regarding the power supply - 22 amps is just not enough and I wonder if your supply is rated 22 amps ICAS or 22 amps continuous? When exceeding the current rating of the supply, it's possible that the supply is losing regulation and your output voltage is far below the 13.6V it should be. Check the voltage first and watch what happens as you increase the power. When I first got my TR7, my lamps also dimmed with keying at max output and that was while using the PS7 supply. After fixing some problems in the PA section, cleaning the power supply connections and replacing the two large filter caps in the PS7, that problem disappeared.

912. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 14:08:55 UTC
From: Garey Barrell
Topic: 855 Message: 912

Vic -

The volume control not turning the audio completely off is "normal". Some are worse than others, but just about all of them do it. According to Drake, the AF/RF Gain control with switch was assembled from parts bought individually and assembled, rather than being purchased as a unit. The problem is that the power switch actuator prevents the AF Gain from going all the way to the ground end of the pot, until of course the Power is turned OFF. Controls that are purchased as an assembled unit have a different resistance element that displaces the "0" end of the element up where the switch actuator doesn't interfere. There isn't a simple way of dealing with it, other than turning the RF Gain back to silence the output.

By the way, the R-7 has a purchased control, and does not have the problem.

Your sidetone "roughness" is most likely a problem of RF getting back into the radio and/or power supply. This seems to be a problem that is worst on 40M, and of course where the transceiver is near the antenna. Additional bypassing of the power leads helps in some cases, and ferrites clamped on the power leads also help.

The PS-7 power supply has four wires in the cable between the power supply and the transceiver. Two of these leads are used to supply the PA ONLY, and the other two supply the remainder of the radio. This arrangement minimizes the dimming of the lamps caused by IR losses in the power cable itself, but does not affect the dimming that might be caused by the power supply output dropping at the PSU end. So... If you have a four-wire DC cable between the PSU and the radio, properly connected, and the lamps are still dimming, then the PSU may be losing regulation because of the current drawn by the PA.

The other factor is the condition of the PA itself. A properly adjusted transmitter will be set for approximately 120-125W output on 20M. At this power level the PA will draw about 24 A or a little less. 10M will draw a couple more amps for full output, which should be about 110W. The PA _WILL_ put out more than this, up to 200+ watts, but NOT recommended. There is an excellent article at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Amp_Repair/TR7-Amp.htm>

that has further information on the PA, and it's capabilities.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Just a bit more about this. The PSU I use doesn't get above slightly
> warm and is not fan cooled. I have used it on other rigs without
> problem.If the PA's were pulling more than it could supply I would have
> thought the PSU would have hotted up.
> Cheers
> Vic
>
>
>

913. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 14:14:19 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 913

Hi Floyd

Thanks for info. At least the audio non cut off seems to be normal - weird and annoying especially as I can't silence the side tone which is controlled by the af gain.

I suspect you are right about the PSU and regulator.

I do not, as yet, have the cct. dia. for this rig the handbook being my only source of info - and that isn't very informative. I was thinking of trying using two PSU's. The 22 amp to the high current line and a 5 amp one to the low current line. My rig is supplied via the battery connection but to be honest it's a shot in the dark.

Any ideas on that?

Vic

You suggested

----Original Message----
From: floyd@...
Date: 01/07/2008 12:02
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: TR7

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...>
wrote:
>
> Lo All
>
> Recently acquired a TR7 and just a couple of points that I would
like
> to get sorted.
> 1) With the AF gain at absolute minimum I can still hear signals at
a
> very comfortable level - is this normal?
> 2) On transmit I have a nice clean sidetone signal (CW) up to
about
> 40w out. Above that the sidetone gets increasingly coarse as I up
the
> power. Also as I increase above 40w the meter/analogue lamps dim
> considerably in sympathy with my keying.
> I do not have a PS7 and am using a PSU rated at about 22amps. I
suspect
> that when keying the PA's are taking all the gravy but I would have
> thought my PSU would have been capable of more than 40w without
> affecting the lamps.
> Any ideas, please.

> Vic - G4JSS
>

Hi Vic. I was a bit surprised when I fired up my first TR7 to be able to have audio output with the volume control all the way down. Mine isn't very loud at that setting, but the audio output level is enough to be annoying. Some have explained why that's a virtue, but to me it's just a deficient design. I've never seen another rig that behaves that way.

Regarding the power supply - 22 amps is just not enough and I wonder if your supply is rated 22 amps ICAS or 22 amps continuous? When exceeding the current rating of the supply, it's possible that the supply is losing regulation and your output voltage is far below the 13.6V it should be. Check the voltage first and watch what happens as you increase the power. When I first got my TR7, my lamps also dimmed with keying at max output and that was while using the PS7 supply. After fixing some problems in the PA section, cleaning the power supply connections and replacing the two large filter caps in the PS7, that problem disappeared.

_____
Beat the credit crunch: Get paid to recycle - http://www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

914. TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 14:43:16 UTC
From: Stephen C. Finch
Topic: 914 Message: 914

I recently had repair work done on my TR7. The new alignment improved the MDS by 10 to 13 db. However, I noticed that when operating CW now, I have to use the RIT an offset the receive frequency by 600 hz or so to have the CW transmit frequency coordinated with the receive frequency. I do not remember ever having to do that before.

Question: When you operate CW, do you have to adjust the RIT? Or is the transmit frequency offset from the receive frequency without the RIT?

Thanks,

Steve
AIØW

915. TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 14:43:17 UTC
From: Stephen C. Finch
Topic: 914 Message: 915

I recently had repair work done on my TR7. The new alignment improved the MDS by 10 to 13 db. However, I noticed that when operating CW now, I have to use the RIT an offset the receive frequency by 600 hz or so to have the CW transmit frequency coordinated with the receive frequency. I do not remember ever having to do that before.

Question: When you operate CW, do you have to adjust the RIT? Or is the transmit frequency offset from the receive frequency without the RIT?

Thanks,

Steve
AIØW

916. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 14:56:43 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 916

Hi Gary

Thanks for info.

Have had another email suggesting that the PSU regulator may not be up to job. As yet I do not have a cct. dia. but was thinking of using 2 PSU's. The 22 amp for the high current line and a 5 amp for the low current line (I am using the battery connection to the rig) but don't really know if this would work. Maybe a stupid idea!!

Apart from that I think the Rx on the rig is excellent - better than my R-4C and FT102.

Cheers

Vic

----Original Message----
From: k4oah@...
Date: 01/07/2008 15:08
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] TR7

Vic -

The volume control not turning the audio completely off is "normal". Some are worse than others, but just about all of them do it. According to Drake, the AF/RF Gain control with switch was assembled from parts bought individually and assembled, rather than being purchased as a unit. The problem is that the power switch actuator prevents the AF Gain from going all the way to the ground end of the pot, until of course the Power is turned OFF. Controls that are purchased as an assembled unit have a different resistance element that displaces the "0" end of the element up where the switch actuator doesn't interfere. There isn't a simple way of dealing with it, other than turning the RF Gain back to silence the output.

By the way, the R-7 has a purchased control, and does not have the problem.

Your sidetone "roughness" is most likely a problem of RF getting back into the radio and/or power supply. This seems to be a problem that is worst on 40M, and of course where the transceiver is near the antenna. Additional bypassing of the power leads helps in some cases, and ferrites clamped on the power leads also help.

The PS-7 power supply has four wires in the cable between the power supply and the transceiver. Two of these leads are used to supply the PA ONLY, and the other two supply the remainder of the radio. This arrangement minimizes the dimming of the lamps caused by IR losses in the power cable itself, but does not affect the dimming that might be

caused by the power supply output dropping at the PSU end. So... If
you have a four-wire DC cable between the PSU and the radio, properly
connected, and the lamps are still dimming, then the PSU may be losing
regulation because of the current drawn by the PA.

The other factor is the condition of the PA itself. A properly adjusted
transmitter will be set for approximately 120-125W output on 20M. At
this power level the PA will draw about 24 A or a little less. 10M will
draw a couple more amps for full output, which should be about 110W.
The PA _WILL_ put out more than this, up to 200+ watts, but NOT
recommended. There is an excellent article at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Amp_Repair/TR7-Amp.htm>

that has further information on the PA, and it's capabilities.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Just a bit more about this. The PSU I use doesn't get above slightly
> warm and is not fan cooled. I have used it on other rigs without
> problem.If the PA's were pulling more than it could supply I would have
> thought the PSU would have hotted up.
> Cheers
> Vic
>
>
>

_____
Beat the credit crunch: Get paid to recycle - http://www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

917. Re: [DrakeRadio] TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 15:17:13 UTC
From: g4jss@tiscali.co.uk
Topic: 914 Message: 917

Hi

Yes. For optimum signal I do have to adjust RIT slightly after transmit. As I haven't had this rig for very long I haven't fully learned how to drive it so it could be me that ain't doing it properly. But, yes I have to adjust.

73

Vic

----Original Message----
From: ai0w@...
Date: 01/07/2008 15:43
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] TR7 CW Offset

I recently had repair work done on my TR7. The new alignment improved
the MDS by 10 to 13 db. However, I noticed that when operating CW now,
I have to use the RIT an offset the receive frequency by 600 hz or so
to have the CW transmit frequency coordinated with the receive
frequency. I do not remember ever having to do that before.

Question: When you operate CW, do you have to adjust the RIT? Or is
the transmit frequency offset from the receive frequency without the
RIT?

Thanks,

Steve
AIØW

_____
Beat the credit crunch: Get paid to recycle - http://www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

918. Re: [DrakeRadio] TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 17:43:41 UTC
From: g4jss@tiscali.co.uk
Topic: 914 Message: 918

Steve

I forgot to mention that according to handbook the Tx is offset 800 c/s from Rx on CW

Vic

----Original Message----
From: ai0w@...
Date: 01/07/2008 15:43
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] TR7 CW Offset

I recently had repair work done on my TR7. The new alignment improved
the MDS by 10 to 13 db. However, I noticed that when operating CW now,
I have to use the RIT an offset the receive frequency by 600 hz or so
to have the CW transmit frequency coordinated with the receive
frequency. I do not remember ever having to do that before.

Question: When you operate CW, do you have to adjust the RIT? Or is
the transmit frequency offset from the receive frequency without the
RIT?

Thanks,

Steve
AIØW

_____
Beat the credit crunch: Get paid to recycle - http://www.tiscali.co.uk/recycle

[Non-text portions of this message have been removed]

919. Re: [DrakeRadio] TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-01 18:36:20 UTC
From: Garey Barrell
Topic: 914 Message: 919

Steve -

All transceivers offset the transmit frequency on CW by "some" amount.
Some allow you to control the offset from the front panel, but most do not.

This offset is typically in the 500 - 900 Hz range, depending upon what
tone the receiving operator likes to hear. IF both transceivers had
ZERO offset, each time you went from receive to transmit, each operator
would have to retune his receiver to get back to "his" tone. This
results in "leapfrogging" up the band on each 'over'. It's not a
perfect system, since each operator probably prefers a different tone,
but RIT solves that problem. Separate receivers and transmitters don't
have this problem!! :-)

I think the offset in the TR-7 is specified as "about 800 Hz". The
offset is also required to move the Carrier Oscillator of the
transmitter to within the passband of the transmit filter, rather than
"down the side" as is required for SSB. So it MUST be moved some
minimum amount, probably at least 500 Hz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Stephen C. Finch wrote:
> I recently had repair work done on my TR7. The new alignment improved
> the MDS by 10 to 13 db. However, I noticed that when operating CW now,
> I have to use the RIT an offset the receive frequency by 600 hz or so
> to have the CW transmit frequency coordinated with the receive
> frequency. I do not remember ever having to do that before.
>
> Question: When you operate CW, do you have to adjust the RIT? Or is
> the transmit frequency offset from the receive frequency without the
> RIT?
>
> Thanks,
>
> Steve
> AI?W
>
>
>

920. Re: TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-02 04:03:41 UTC
From: Floyd Sense
Topic: 914 Message: 920

Not sure what the range of adjustment for the CW offset really is on the TR7, but I'd be surprised if you could pull the freq so far you'd have zero offset. The service manual says to adjust to 800 Hz, but I have mine adjusted to near 600 Hz. The adjustment procedure is rather strange since you have to stick a screwdriver into and through the rear panel key jack to engage C1136 on the 2nd IF/Audio board to do the adjustment.

921. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-02 10:10:33 UTC
From: Victor Waddington
Topic: 855 Message: 921

Re my previous problems (coarse sidetone and lamps dimming).
Definitely my PSU. Tried using two PSU's - one for the low current circuit and the 22 amp for the PA's. Worked fine with nice clean sidetone and no lamp dimming.
Only a temporary measure as I've just ordered a 30 amp job.
Thanks for all the info and help.
Vic - G4JSS
PS. Is it still possible to get Cinch Jones plugs / sockets anywhere. The one I am looking for fits into the battery connection of the TR7?

922. Re: [DrakeRadio] Re: TR7 CW Offset

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-02 14:27:04 UTC
From: Garey Barrell
Topic: 914 Message: 922

Floyd -

It may be possible to "zero" the CW offset. I had never looked at it, but in the TR-7 they use a separate oscillator to feed directly to the 2nd Mixer, bypassing the crystal filter entirely. Wonders of solid state! :-) The crystal is marked 5.645 MHz, so theoretically you "could" set it for zero offset. But you wouldn't want to do that for reasons discussed earlier. The offset should be approximately the tone you like to hear when receiving CW.

The adjustment through the key jack is actually pretty innovative. You use a metal screwdriver so you can "key" the transmitter with the same tool used to adjust the trimmer cap by touching it to the bushing of the jack!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> Not sure what the range of adjustment for the CW offset really is on
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> have mine adjusted to near 600 Hz. The adjustment procedure is rather
> strange since you have to stick a screwdriver into and through the rear
> panel key jack to engage C1136 on the 2nd IF/Audio board to do the
> adjustment.
>
>

923. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-02 14:35:06 UTC
From: Garey Barrell
Topic: 855 Message: 923

Vic -

The connector is a Cinch-Jones S-2404-CCT. Now there is the
S-2404H-CCT which is the "ROHS" version and is a little cheaper. Both
are available from Newark in the US, and they have a European branch
called Farnell. The old version is $10 here and the ROHS one is $6.

The US store has approximately 500 of each type in stock!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Re my previous problems (coarse sidetone and lamps dimming).
> Definitely my PSU. Tried using two PSU's - one for the low current
> circuit and the 22 amp for the PA's. Worked fine with nice clean
> sidetone and no lamp dimming.
> Only a temporary measure as I've just ordered a 30 amp job.
> Thanks for all the info and help.
> Vic - G4JSS
> PS. Is it still possible to get Cinch Jones plugs / sockets anywhere.
> The one I am looking for fits into the battery connection of the TR7?
>
>
>

924. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-02 19:45:25 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 924

Garey

Thanks for that info. Yes we have a Farnell here so that's another problem sorted.

Thanks

Vic

----Original Message----
From: k4oah@...
Date: 02/07/2008 15:35
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] TR7

Vic -

The connector is a Cinch-Jones S-2404-CCT. Now there is the
S-2404H-CCT which is the "ROHS" version and is a little cheaper. Both
are available from Newark in the US, and they have a European branch
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The US store has approximately 500 of each type in stock!

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Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> Only a temporary measure as I've just ordered a 30 amp job.
> Thanks for all the info and help.
> Vic - G4JSS
> PS. Is it still possible to get Cinch Jones plugs / sockets anywhere.
> The one I am looking for fits into the battery connection of the TR7?
>
>
>

_____
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[Non-text portions of this message have been removed]

925. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 19:48:34 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 925

Hi Garey

Re previous

Got the 30 amp PSU and much better. Still a slight flickering of lamps but I can live with that. Sidetone nice and clean but a bit annoying as it is controlled by the af gain - which doesn't go down to zero volume!!

Re the Cinch-Jones. I tried Farnell and they have a minimum order which meant I had to spend about $50 to get one. So will wait until I need something else that will make up the minimum order.

Take care

Vic

----Original Message----
From: k4oah@...
Date: 02/07/2008 15:35
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] TR7

Vic -

The connector is a Cinch-Jones S-2404-CCT. Now there is the
S-2404H-CCT which is the "ROHS" version and is a little cheaper. Both
are available from Newark in the US, and they have a European branch
called Farnell. The old version is $10 here and the ROHS one is $6.

The US store has approximately 500 of each type in stock!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
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> Definitely my PSU. Tried using two PSU's - one for the low current
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> Thanks for all the info and help.
> Vic - G4JSS
> PS. Is it still possible to get Cinch Jones plugs / sockets anywhere.
> The one I am looking for fits into the battery connection of the TR7?
>

>
>

Free games for a wet weekend - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

926. RE: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 20:32:14 UTC
From: W6CCD
Topic: 855 Message: 926

Go to Mouser www.mouser.com for Cinch-Jones connectors. They don't have a minimum order.

Dick - W6CCD

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of g4jss@tiscali.co.uk
Sent: Friday, July 04, 2008 12:49 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR7

Hi Garey

Re previous

Got the 30 amp PSU and much better. Still a slight flickering of lamps but I can live with that. Sidetone nice and clean but a bit annoying as it is controlled by the af gain - which doesn't go down to zero volume!!

Re the Cinch-Jones. I tried Farnell and they have a minimum order which meant I had to spend about $50 to get one. So will wait until I need something else that will make up the minimum order.

Take care

Vic

927. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 20:59:24 UTC
From: Garey Barrell
Topic: 855 Message: 927

Unfortunately, they don't have the connector either......

Newark has 500 of each type in stock, and I don't think they have their
minimum order any more. Probably thanks to Mouser and Digikey.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

W6CCD wrote:
> Go to Mouser www.mouser.com for Cinch-Jones connectors. They don't have a
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>
> Dick - W6CCD
>
>
> -----Original Message-----
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of g4jss@...
> Sent: Friday, July 04, 2008 12:49 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] TR7
>
>
>
> Hi Garey
>
> Re previous
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> something else that will make up the minimum order.
>
> Take care
>
>
>
> Vic
>
>

>

928. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 21:22:58 UTC
From: Garey Barrell
Topic: 855 Message: 928

Oops! I take it back. Mouser DOES have a substitute in stock as a
Molex S-5404-CCT for $7.19 each. They do take credit card orders, but I
don't know if there are any additional charges for International orders.

Mouser p/n 538-38541-8404, catalog page 1,327

They do take credit card orders, but I don't know if there are any
additional charges for International orders.

Interesting aside, the connector is only rated for 15A / contact. Cinch
specified less than 1 milliohm contact resistance, which would only be a
25 mV drop at 25A. I wonder if they originally intended to parallel
contacts to handle the 20A+ taken by the PA stage alone, and found they
had to separate the PA from the rest of the radio to minimize the panel
lamp dimming??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

W6CCD wrote:
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>
> Dick - W6CCD
>
>
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> Behalf Of g4jss@...
> Sent: Friday, July 04, 2008 12:49 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] TR7
>
>
>
> Hi Garey
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> meant I had to spend about $50 to get one. So will wait until I need
> something else that will make up the minimum order.
>
> Take care
>
>
>
> Vic
>
>
>

929. AC4 bias problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 22:53:09 UTC
From: K4GM-George
Topic: 929 Message: 929

I have an AC4 which will not allow me to set the bias correctly. Following the manual my idling current ranges from 100 ma to 200 ma. I cannot get it below 100 or even close to the 70 ma as per the manual. The bias pot does turn and the current does vary as above. Before I open the unit to start troubleshooting, I wondered whether my description indicated a common part failure. The TX4C works fine with two other AC4 units so I know its the power supply and not the xmtr. Any ideas appreciated.

George K4GM

930. Re: [DrakeRadio] AC4 bias problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-04 22:58:02 UTC
From: lee
Topic: 929 Message: 930

How about replacing the filter caps in the bias supply?
Lee, w0vt

----- Original Message -----
From: K4GM-George
To: DrakeRadio@yahoogroups.com
Sent: Friday, July 04, 2008 5:53 PM
Subject: [DrakeRadio] AC4 bias problem

I have an AC4 which will not allow me to set the bias correctly. Following the manual my idling current ranges from 100 ma to 200 ma. I cannot get it below 100 or even close to the 70 ma as per the manual. The bias pot does turn and the current does vary as above. Before I open the unit to start troubleshooting, I wondered whether my description indicated a common part failure. The TX4C works fine with two other AC4 units so I know its the power supply and not the xmtr. Any ideas appreciated.

George K4GM

[Non-text portions of this message have been removed]

931. Re: [DrakeRadio] AC4 bias problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-05 01:44:06 UTC
From: Garey Barrell
Topic: 929 Message: 931

George -

Bias Supply failure. Probably leaky electrolytic caps. Repair it
before it dies completely and perhaps takes your finals and/or power
supply with it!

If you measure the bias voltage it should vary between about 45 and 85
volts negative to chassis.

Best approach is the AC-4R kit from Mike at The Heathkit Shop. Replaces
ALL the electrolytics and diodes and resistors, making the supply good
for another 30 years.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

K4GM-George wrote:
> I have an AC4 which will not allow me to set the bias correctly.
> Following the manual my idling current ranges from 100 ma to 200 ma. I
> cannot get it below 100 or even close to the 70 ma as per the manual.
> The bias pot does turn and the current does vary as above. Before I
> open the unit to start troubleshooting, I wondered whether my
> description indicated a common part failure. The TX4C works fine with
> two other AC4 units so I know its the power supply and not the xmtr.
> Any ideas appreciated.
>
> George K4GM
>
>
>

932. Re: WTB, AC-4 power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-06 13:33:57 UTC
From: Mike-K5VSE
Topic: 891 Message: 932

Thanks to George, K4GM I have an AC-4 power supply on the way. The upgrade kit is also on order from Mike Bryce. Soon I'll be back on the air from the shop that is about 300 feet from the house. That always kept me out of trouble with the XYL while she was still with me.

Thanks to all that responded es 73,

Mike/K5VSE [:D]

[Non-text portions of this message have been removed]

933. TR-4 20m sidband problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-08 02:36:50 UTC
From: Tim Stotenburg
Topic: 933 Message: 933

Good evening,

You have a wonderful site loaded will great info and unfortunately I have run into a slight snag.
From what I have gathered here there has been some problems with the 9mhz crystal failing on one sideband or the other. My problem is on 20 it sounds real tinny and have been told I am off freq, I will be trouble shooting within the next couple of days.
My question is, does the TR-3 use the same crystal, I may be able to acquire one for cheap.
Thanx again for a great site, I really love this rig and would rather not turn it into a parts radio.
73 to all
Tim Ki6NQT
Sacramento, Ca

934. Drake List

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-08 17:04:18 UTC
From: tnham63
Topic: 934 Message: 934

What has happened to the DrakeList? I haven't seen any new postings since June 2 on mine?

73
WINK

935. Re: [DrakeRadio] Drake List

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-08 17:13:56 UTC
From: Garey Barrell
Topic: 934 Message: 935

Most of the activity is on Drakelist.

<http://www.zerobeat.net/drakelist/drakefaq.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> What has happened to the DrakeList? I haven't seen any new
> postings since June 2 on mine?
>
> 73
> WINK
>
>
>

936. RE: [DrakeRadio] Drake List

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-08 17:17:51 UTC
From: James Chaggaris
Topic: 934 Message: 936

I'm lurking....

73
Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of tnham63
Sent: Tuesday, July 08, 2008 12:04 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake List

What has happened to the DrakeList? I haven't seen any new postings since June 2 on mine?

73
WINK

[Non-text portions of this message have been removed]

937. MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-09 15:57:02 UTC
From: Victor Waddington
Topic: 937 Message: 937

Hello
Got a problem with my ATU.
In order of sequence:-
1) Working away on 40 at around 100w and SWR 1:1. Suddenly large crack like a pistol shot. SWR shot up on meter.
2) Switched to alternative (dummy) and all readings as they should be.
3) Went back to antenna and power out as it should be - around 100w.
Put switch back in reflected position and another more muffled crack and SWR reading all over the place. No adjustment of controls would affect it.
I don't have a cct. dia. of the ATU but what beats me is the fact that it reads as it should on dummy load but switch to any antenna position and it goes all to pot.
I do appreciate that on 'alternative' it goes direct to the connected dummy load and not via the antenna circuitry but as I said, I don't have a cct. dia.
Also (very embarassing) I can't get the damned chassis out of the case.
Looking from the front at the facia does it come out towards you or does it slide out of the back? I have removed the screws but it won't shift in any direction.
Hoping for help

Vic - G4JSS

938. D-104 mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-10 23:41:22 UTC
From: pf596
Topic: 938 Message: 938

I'm still trying to get my TR-4 up and running. I am looking to wire an Astatic D-104 with the T-UG9 stand. I am having trouble finding a source of info. on how to wire up the 3 terminal mike plug. Any and all help would be appreciated. 73's Bob

939. Re: [DrakeRadio] D-104 mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-11 00:27:18 UTC
From: mdewey@allegiance.tv
Topic: 938 Message: 939

Here ya go.

PTT Tip

Mic audio Ring

Ground both PTT and Mic shield Sleeve

All Drakes are wired the same. If you have the manual it even has a picture

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
Pupule384 On 3922 Nightly
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

940. Re: D-104 mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-11 01:11:03 UTC
From: pf596
Topic: 938 Message: 940

--- In DrakeRadio@yahoogroups.com, <mdewey@...> wrote:
>
> Here ya go.
>
> PTT Tip
>
> Mic audio Ring
>
> Ground both PTT and Mic shield Sleeve
>
>
> All Drakes are wired the same. If you have the manual it even has a
picture
>
>
> 73,
> Mike/K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> Pupule384 On 3922 Nightly
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2008
> "In God We Trust"
>
> [Non-text portions of this message have been removed]
>

Which wires from mike are which though? No diagram in base of mike.
Have 5 wires, looks like white/shield blue, black, red and maybe
green?

941. Re: [DrakeRadio] Re: D-104 mike wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-11 03:38:34 UTC
From: mdewey@allegiance.tv
Topic: 938 Message: 941

The white with the shield should be mic audio.

Take a VOM and connect it to the red and black wires. Push the PTT bar on the mic. If you meter goes to zero, that's the PTT switch. If that doesn't work, try the blue and black. It's got to be one of those pair. Remember the shield and black wire have to be on the sleeve of the plug.

If that doesn't work for you, do a Google search for Astatic wiring diagrams and there will be several sites that have diagrams. As a last resort, I can go out to my shop tomorrow and look at some of mine. Not all of them used the same color code for their wires. It's really pretty simple to do. I've done dozens of them.

Hope this helps you out.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

942. L7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-12 16:15:53 UTC
From: Jharley
Topic: 942 Message: 942

the L7 trips the breaker (one on the right) after 20 second, slight smell in the RF deck. Tubes in should I remove the tubes and try again HELP where do I go from here? Schematic only show one CB in main xfmr line

943. Re: [DrakeRadio] L7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-12 16:21:54 UTC
From: mdewey@allegiance.tv
Topic: 942 Message: 943

Check your plate meter when you first turn it on. If it goes way up or pegs, you have a shorted tube. Then pull both tubes and turn it on again just to make sure it's not a power supply problem. Then again, there may be other problems in the plate circuit. You will have to defeat the safety switch, so be VERY CAREFUL. THERE IS 2400 VOLTS THAT CAN AND WILL KILL YOU!

73,
Mike/K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

944. Success wiring D-104..... Now another question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-13 01:54:29 UTC
From: pf596
Topic: 944 Message: 944

Thanks to Mike K5VSE for all your help, blue and red were the PTT wires on this microphone. Thanks again. My question now is tuning the radio for max. output when using my MN-2000 tuner. This is my 1st boat anchor and am concerned about blowing the finals. I found a copy of the manual and the bias adjustment is very straightforward, had a .1 on the plate amperes meter.My questions relate to the tune up procedure. Set all switches in correct position and pots ccw as specified. Manual says to advance the XMTR Gain control until meter move slightly upscale from idling current. Is the .1 considered my idling current, how much is considered slightly upscale, .15, .2? It seems this tuning procedure is used when no external tuner is used, am I correct? I hate to blow out this radio just when I seem to be making some headway. Any help with the Tune-Up procedure would be greatly appreciated. Thanks in advance
Bob-KC9MTW

945. Re: [DrakeRadio] Success wiring D-104..... Now another question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-13 02:36:38 UTC
From: K5VSE
Topic: 944 Message: 945

OK Bob, here we go.

Set the MN-2000 on the band you want to use. Set both controls mid scale.

TR-4: Follow the manual to start with.

Turn the mic gain to about .2ma
Dip the plate, or watch your tuner and just tune for max output.

Then switch the MN-2000 to SWR. Push the button while the TR-4 is keyed in the "X" position. Set the SWR to max.
Release the button. Then, using both variable capacitors, tune the tuner for minimum SWR.

Then, the transmitter sees a 50 ohm load.

Advance the mic gain control to .3ma if it will go that high. Dip the plate, or again watch the tuner and tune for maximum output. That's all there is to it. Remember, do it quickly, as in 10 seconds or so. This will prevent you from losing the final tubes. They are getting a little expensive.

After you do this a few times, you wont even have to watch the plate meter, just the tuner meter. If you are only using the TR-4 make sure the tuner is in the 300 watt position. You wont need to re-tune the tuner unless you move more than abut 25kHz or so.

I hope I made this to where you understand what I was trying to get across. If not, send me a note and we can go further.

73 and good luck. You will enjoy the "Glow in the Dark" radios.

I don't own any radios except Drake and some Heathkit stuff. I will never own a rice box. HI HI

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

946. More problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 01:20:44 UTC
From: pf596
Topic: 946 Message: 946

Mike is wired, tune-up procedure straightened out, I think. I have tremendous RFI problems. Blew out my analog cable box. No problems with either my ICOM or Kenwood TS-520-S though. My TR4, MN 2000 and RV-4 all commonly grounded. Did notice that on 20 meters upper sideband sounds greatand lower sounds "hollow or tinny", hard to describe sound. On 40 meters lower sieband sounds good and upper sounds just as bad as 20 lower. Any thoughts? Thanks in advance. Bob

947. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 10:46:34 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 947

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

948. An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 22:18:54 UTC
From: darrell_deel
Topic: 948 Message: 948

I have recently acquired a Drake TR-4 to add to my collection. My question is: What is the best base station microphone to use with this rig?

Thanks!

73,

Darrell
KE5BYM

949. Re: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 22:20:00 UTC
From: lee
Topic: 948 Message: 949

Sure 444 or D-104.

Lee, w0vt

----- Original Message -----
From: darrell_deel
To: DrakeRadio@yahoogroups.com
Sent: Monday, July 14, 2008 5:18 PM
Subject: [DrakeRadio] An opinion, please?

I have recently acquired a Drake TR-4 to add to my collection. My question is: What is the best base station microphone to use with this rig?

Thanks!

73,

Darrell
KE5BYM

[Non-text portions of this message have been removed]

950. RE: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 22:33:44 UTC
From: Jim Chaggaris
Topic: 948 Message: 950

Shure 444 or 444D. D-104 or EV664. All work well.

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of darrell_deel
Sent: Monday, July 14, 2008 5:19 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] An opinion, please?

I have recently acquired a Drake TR-4 to add to my collection. My question is: What is the best base station microphone to use with this rig?

Thanks!

73,

Darrell
KE5BYM

[Non-text portions of this message have been removed]

951. Re: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 23:26:15 UTC
From: Dan Galligan
Topic: 948 Message: 951

I like my Astatic 10-DA on my T-4XB, and think one would be a good combination on a TR-4. I also run a Heil Fin, and get reports of fantastic audio. I formerly ran a Shure 526T, which was handy, for controlling the transmit volume, though you couldn't turn it up much, before it sounded terrible.
But, asking which is best, is really a loaded question. Everyone has their favorite. I'd also like to try a Heil Heritage and a Heil Classic, on my T-4XB.
Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...
"If you don't love it, leave it. Let this.....be your warning, When you're running down my country man, you're walking on the fighting side of me."
Merle Haggard

On Jul 14, 2008, at 3:18 PM, darrell_deel wrote:

I have recently acquired a Drake TR-4 to add to my collection. My question is: What is the best base station microphone to use with this rig?

Thanks!

73,

Darrell
KE5BYM

Yahoo! Groups Links

952. RE: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-14 23:55:54 UTC
From: Jim Chaggaris
Topic: 948 Message: 952

I agree, the D-104 with the 10DA head works well. I use the D-104 (w/amplifier/impedance matching base) and get great reports. I also use the Heil GM Vintage on my B-Line and get great reports but let's not forget the Turner +3 or +3B and the Turner Super Sidekick. They sound great as well, but keep the volume low!

73,

Jim N9WW (ex KJ9A)

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Dan Galligan
Sent: Monday, July 14, 2008 6:26 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] An opinion, please?

I like my Astatic 10-DA on my T-4XB, and think one would be a good combination on a TR-4. I also run a Heil Fin, and get reports of fantastic audio. I formerly ran a Shure 526T, which was handy, for controlling the transmit volume, though you couldn't turn it up much, before it sounded terrible.
But, asking which is best, is really a loaded question. Everyone has their favorite. I'd also like to try a Heil Heritage and a Heil Classic, on my T-4XB.
Dan Galligan
W3RXO
dgalligan60@ <mailto:dgalligan60%40mac.com> mac.com
w3rxo@... <mailto:w3rxo%40mac.com>
"If you don't love it, leave it. Let this.....be your warning, When you're running down my country man, you're walking on the fighting side of me."
Merle Haggard

On Jul 14, 2008, at 3:18 PM, darrell_deel wrote:

I have recently acquired a Drake TR-4 to add to my collection. My question is: What is the best base station microphone to use with this rig?

Thanks!

73,

Darrell
KE5BYM

Yahoo! Groups Links

[Non-text portions of this message have been removed]

953. Re: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-15 00:17:28 UTC
From: mdewey@allegiance.tv
Topic: 948 Message: 953

Hi there,

I've tried several different mics over the years with Drake gear. By far, in my opinion, is the Shure 444D, followed by the Astatic D-104 non amplified using the ceramic element. Do not use one with a crystal element or you will sound very tinny.

I've been doing this for over 50 years and might know what I'm talking about. Do not use any form of Heil mics.

73,

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

954. RE: [DrakeRadio] An opinion, please?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-15 00:26:11 UTC
From: Jim Chaggaris
Topic: 948 Message: 954

YMMV but in my 30yrs as a Ham I've never had a problem with the D-104 crystal mic's sounding good on my Drakes (B or C Line). The Heil GM Vintage (high Impedance version) sounds great as well.

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of mdewey@...
Sent: Monday, July 14, 2008 7:17 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] An opinion, please?

Hi there,

I've tried several different mics over the years with Drake gear. By far, in

my opinion, is the Shure 444D, followed by the Astatic D-104 non amplified using the ceramic element. Do not use one with a crystal element or you will

sound very tinny.

I've been doing this for over 50 years and might know what I'm talking about. Do not use any form of Heil mics.

73,

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members. <http://members.tripod.com/~sjsharks/index.html>
tripod.com/~sjsharks/index.html

Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

955. Thanks for the input!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-15 10:44:45 UTC
From: darrell_deel
Topic: 955 Message: 955

Well, I want to thank all of those that responded to my request for their opinions on a good mic for my Drake TR-4. The largest number opinions was for the D-104. When I was a teenager, I used one on a CB base station and it worked great. So I think I will acquire a couple of them and put one on my Drake and another one for my Swan 750CW.

73 and Thanks,

Darrell
KE5BYM

956. Re: Ham and Son Electrocuted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 02:31:32 UTC
From: Don
Topic: 956 Message: 956

REVISED Jul 15, 2008 14:45 ET

Kansas Ham, Son, Electrocuted While Erecting Antennas
While putting up backyard antennas on the afternoon of Sunday, July 13, Edward Thomas, KC0TIG, of Kansas City, Kansas, and his son were electrocuted. The elder Thomas, 65, was pronounced dead at the scene. His son, 27, was rushed to the hospital but died later that day. Initial reports suggest that the antenna they were installing came in contact with 7620 V power lines. Neighbors reported a "loud popping sound" and the electricity went out on the block.

Jacob's 7 year old daughter witnessed the tragedy and ran to the neighbor's yard, calling for help. Byron Kirkwood and another neighbor attempted to perform CPR on the men; the neighbor also called 911.

Robert Mullendore, a spokesman for the Kansas City Board of Public Utilities (KCBPU), was quoted by Kansas City television station KSBH as saying it is rare to survive a shock as strong as the two men received: "There are people who will survive -- they're lucky by the grace of God, it's high energy, it's dangerous, that's why it's up in the air -- you just have to be careful. Even those who survive have pretty wicked wounds and they are lifelong wounds." In the power business for more than 30 years, the spokesman said these accidents are "really rare," saying that he only sees something like this "every two or three years. If you're doing any kind of work like this, you just really, really need to be aware of your surroundings."

Chuck Kraly, K0XM, used to work for KCBPU; he built and maintained the substation that fed the circuit going to the Thomas home: "This is nothing to take chances with. In my almost 30 years as a ham -- and 27 years in the power utility field -- I have seen way too many 'accidents.' Stop and look. If it is close or seems that way -- don't. Find another place. High voltage lines are not forgiving. Your life depends on it. Please follow the warnings. Anywhere close is too close." -- Thanks to Larry Staples, W0AIB, and others who contributed to this story

----- Original Message -----
From: c.s.
To: Amateur-repairs@yahoogroups.com
Sent: Wednesday, July 16, 2008 3:09 PM
Subject: [Amateur-repairs] [Fwd: [QRP-L] Ham and Son Electrocuted]

I* have taken the liberty of forwarding this info to the
amateur -repairs list because it is of the utmost importance to ALL hams
everywhere. !!!
If it's considered off topic I apologize.!!!!!
carl / kz5ca

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

957. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 08:56:35 UTC
From: Victor Waddington
Topic: 606 Message: 957

Hello all
Problems with Tx
Originally it blew a fuse in PSU.
The found that PA's had gone along with the fuse.
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Any suggestions as to the most likely cause, please.

Vic

958. Re: Ham and Son Electrocuted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 14:41:16 UTC
From: Robert Clinton
Topic: 956 Message: 958

Off topic or on, it is relevant to every ham radio forum. I have just finished writing an editorial for our club newsletter on the subject of safety - I will now revise it to include the information from this post.

Bob Clinton G0BUX / W0BUX

959. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 15:04:20 UTC
From: Garey Barrell
Topic: 606 Message: 959

Vic -

Are you able to set the idle plate current with the Bias control?

Have you checked voltage from Bias supply? Should be variable from
roughly -45 to -85 VDC with Bias control on power supply.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello all
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> control seems to do is lower or higher the IC depending which way I
> rotate it. Basically I think what I am trying to say is that I can't
> get the tank circuit to resonate.
> Any suggestions as to the most likely cause, please.
>
> Vic
>
>
>

960. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 18:13:40 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 960

Hello again Garey

Yep the bias can be set and the -ve voltage is OK. The EHT is also OK.

When I try and get a dip the IC goes down but no dip or rf out. if I turn the plate control clockwise the IC rises and I get about 40 watts out. The load control makes no difference at all.

I haven't had chance yet to check the voltage/resistance measurements. If I had to take a shot in the dark I would guess at the coupling between driver and |PA's or the coupling between the PA's and the tank circuit. Just wonder why the fuse and PA's went.

Vic

From: k4oah@...
Date: 17/07/2008 16:04
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

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>
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Is big brother watching you? http://www.tiscali.co.uk/security
---

[Non-text portions of this message have been removed]

961. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-17 18:36:21 UTC
From: Garey Barrell
Topic: 606 Message: 961

Vic -

OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what made them desirable for PA use (High plate currents at relatively plate voltages) also causes them to destroy themselves if the plate current is not controlled.

Does this occur on all bands? Does the TUNE control peak in the appropriate area for the band selected?

I suspect a bad switch contact or solder joint in the Pi Net area. I don't think the driver coupling would be the problem, as with NO drive the PA should just sit at idle. The Plate blocking cap could be open. I'd start with a careful inspection of the wiring and solder of the Pi Net components, with ohmmeter checks to be sure the PLATE cap stator is connected to the coil and that the appropriate LOAD cap sections for the band selected are connected. The large Dur-Mica caps arranged around switch section G are additional load capacity for the low bands.

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Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> From: k4oah@...
> Date: 17/07/2008 16:04
> To: <DrakeRadio@yahoogroups.com>

> Subj: Re: [DrakeRadio] T-4XC
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>> get the tank circuit to resonate.
>> Any suggestions as to the most likely cause, please.
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>> Vic
>>

962. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 08:58:58 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 962

Hi Garey

Thanks for info. When I think about it calmly you are obviously right about the driver coupling cap. I say calmly because earlier in the week there was a loud bang from my FT102 and when the Drake went that was the last straw for this week!

Strangely the fault on the 102 was also in the tank cct. but fortunately very visible - the 2kv anode coupling cap had blown apart and the EHT had arced across to earth. Easy to see and easy to fix.

Will go over the Pi cct. with a fine tooth comb - can't afford another set of PA's. Don't know about the U.S. but here they are $76 each.

Many thanks - will let you know what I find.

Vic - G4JSS

----Original Message----
From: k4oah@...
Date: 17/07/2008 19:36
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what made them desirable for PA use (High plate currents at relatively plate voltages) also causes them to destroy themselves if the plate current is not controlled.

Does this occur on all bands? Does the TUNE control peak in the appropriate area for the band selected?

I suspect a bad switch contact or solder joint in the Pi Net area. I don't think the driver coupling would be the problem, as with NO drive the PA should just sit at idle. The Plate blocking cap could be open. I'd start with a careful inspection of the wiring and solder of the Pi Net components, with ohmmeter checks to be sure the PLATE cap stator is connected to the coil and that the appropriate LOAD cap sections for the band selected are connected. The large Dur-Mica caps arranged around switch section G are additional load capacity for the low bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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g4jss@... wrote:
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> From: k4oah@...
> Date: 17/07/2008 16:04
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
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> Vic -
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>> Any suggestions as to the most likely cause, please.
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>> Vic
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Is big brother watching you? http://www.tiscali.co.uk/security
---

[Non-text portions of this message have been removed]

963. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 13:54:26 UTC
From: Garey Barrell
Topic: 606 Message: 963

Vic -

Wow! You might want to consider using 6GJ5s for finals. They are a drop-in replacement for the 6JB6, the only difference being that the Suppressor (Beam) elements are tied to the cathode internally, rather than being brought out to a separate pin. Since the Drake PAs are grounded cathode, AB1, this makes no difference in the operation. As with the 6JB6, they must be neutralized correctly, and there is brand sensitivity. If you can find 6JG5(A)s from Sylvania, Zenith, RCA or GE, in that order, they will work just as well and are lots cheaper.

You didn't answer my other questions.... Does it do this on ALL bands? Does the RF TUNE control peak in the right portion of the scale?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

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>
> Will go over the Pi cct. with a fine tooth comb - can't afford another set of PA's. Don't know about the U.S. but here they are $76 each.
>
> Many thanks - will let you know what I find.
>
> Vic - G4JSS
>
> ----Original Message----
> From: k4oah@...
> Date: 17/07/2008 19:36
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>
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>
> Vic -
>
> OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what
> made them desirable for PA use (High plate currents at relatively plate
> voltages) also causes them to destroy themselves if the plate current is
> not controlled.
>
> Does this occur on all bands? Does the TUNE control peak in the
> appropriate area for the band selected?
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> g4jss@... wrote:
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>>
>>
>>
>> Vic
>>
>>
>> From: k4oah@...
>> Date: 17/07/2008 16:04

>> To: <DrakeRadio@yahoogroups.com>
>> Subj: Re: [DrakeRadio] T-4XC
>>
>> Vic -
>>
>> Are you able to set the idle plate current with the Bias control?
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> Is big brother watching you? http://www.tiscali.co.uk/security
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.1/1559 - Release Date: 7/17/2008 6:08 PM
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964. FS:Drake TR-22

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 16:07:23 UTC
From: Joel Levy
Topic: 964 Message: 964

I have a Drake TR-22 that is now excess to my needs for sale. The transceiver is in excellent condition and comes with original carrying case/ strap, AC cord, DC cord, new NiCad's installed in a working transceiver. Six xtal pairs are installed and I have about 25 additional crystals. A bound copy of the manual is included. Price, $150 shipped to the CONUS. Tnx for reading, 73, Joel AE2JL

[Non-text portions of this message have been removed]

965. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 16:50:38 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 965

Hi

Thanks for info re finals.

Well you were spot on re neutralization. I have adjusted that and lo and behold we have a good dip. On 20m I only get 60 watts out but on 40 I get the full 100 and the max IC I can get on 20 is 200ma.

Didn't spend a great deal of time on the neutralizing and will do a more meticulous set up this evening - as per the book.

Vic

PS. Also get a dip on 80m with around 100w on quite a low gain setting.

----Original Message----
From: k4oah@...
Date: 18/07/2008 14:54
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

Wow! You might want to consider using 6GJ5s for finals. They are a drop-in replacement for the 6JB6, the only difference being that the Suppressor (Beam) elements are tied to the cathode internally, rather than being brought out to a separate pin. Since the Drake PAs are grounded cathode, AB1, this makes no difference in the operation. As with the 6JB6, they must be neutralized correctly, and there is brand sensitivity. If you can find 6JG5(A)s from Sylvania, Zenith, RCA or GE, in that order, they will work just as well and are lots cheaper.

You didn't answer my other questions.... Does it do this on ALL bands? Does the RF TUNE control peak in the right portion of the scale?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
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> Will go over the Pi cct. with a fine tooth comb - can't afford another set of PA's. Don't know about the U.S. but here they are $76 each.
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> Many thanks - will let you know what I find.
>
> Vic - G4JSS
>
> ----Original Message----
> From: k4oah@...
> Date: 17/07/2008 19:36
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
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>
> Vic -
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> OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what
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> g4jss@... wrote:
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>> From: k4oah@...
>> Date: 17/07/2008 16:04
>> To: <DrakeRadio@yahoogroups.com>
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> Is big brother watching you? http://www.tiscali.co.uk/security
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_____

[Non-text portions of this message have been removed]

966. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 17:01:42 UTC
From: Garey Barrell
Topic: 606 Message: 966

Vic -

Cool! Well, that is indicative of misalignment and/or weak finals, i.e., the output power falling off at higher bands. A max plate current of 200 mA is more likely alignment than finals. Weak Finals typically present as reasonable plate current but reduced RF output on the higher bands.

That said, if you haven't already, you might try touching up the alignment trimmers per the procedure in the manual. Be sure and adjust the trimmers with a non-metallic tool, as shorting the adjustment trimmer to the chassis can damage or destroy R44. Check the value and condition of R44, R53 and R54 along with R59.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
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> ----Original Message----
> From: k4oah@...
> Date: 18/07/2008 14:54
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
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>> From: k4oah@...
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>>> Hello again Garey
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>>> Yep the bias can be set and the -ve voltage is OK. The EHT is also OK.
>>>
>>> When I try and get a dip the IC goes down but no dip or rf out. if I turn the plate control clockwise the IC rises and I get about 40 watts out. The load control makes no difference at all.
>>>
>>> I haven't had chance yet to check the voltage/resistance measurements. If I had to take a shot in the dark I would guess at the coupling between driver and |PA's or the coupling between the PA's and the tank circuit. Just wonder why the fuse and PA's went.
>>>
>>>
>>>
>>> Vic
>>>
>>>
>>> From: k4oah@...
>>> Date: 17/07/2008 16:04

>>> To: <DrakeRadio@yahoogroups.com>
>>> Subj: Re: [DrakeRadio] T-4XC
>>>
>>> Vic -
>>>
>>> Are you able to set the idle plate current with the Bias control?
>>>
>>> Have you checked voltage from Bias supply? Should be variable from
>>> roughly -45 to -85 VDC with Bias control on power supply.
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>
>>> Victor Waddington wrote:
>>>
>>>
>>>
>>>> Hello all
>>>> Problems with Tx
>>>> Originally it blew a fuse in PSU.
>>>> The found that PA's had gone along with the fuse.
>>>> Replaced fuse and PA's. Now got IC but can't get a dip. All the plate
>>>> control seems to do is lower or higher the IC depending which way I
>>>> rotate it. Basically I think what I am trying to say is that I can't
>>>> get the tank circuit to resonate.
>>>> Any suggestions as to the most likely cause, please.
>>>>
>>>> Vic
>>>>
>

967. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-18 18:25:41 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 967

Hells bells are you some kind of psychic. I was messing about with the neutralizing and got that right and then per chance saw the trimmers on the side of the chassis. So, I adjusted the 20m trimmers (the only one I have done at the moment) and up came the IC and RF out with a very pleasing dip. Now getting 100w on 20. Don't suppose I've done it right but it works for now!

Just after doing that came back to computer and there was your email.

Think I need a nap!!

Vic

----Original Message----
From: k4oah@...
Date: 18/07/2008 18:01
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

Cool! Well, that is indicative of misalignment and/or weak finals,
i.e., the output power falling off at higher bands. A max plate current
of 200 mA is more likely alignment than finals. Weak Finals typically
present as reasonable plate current but reduced RF output on the higher
bands.

That said, if you haven't already, you might try touching up the
alignment trimmers per the procedure in the manual. Be sure and adjust
the trimmers with a non-metallic tool, as shorting the adjustment
trimmer to the chassis can damage or destroy R44. Check the value and
condition of R44, R53 and R54 along with R59.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi
>
> Thanks for info re finals.
>
> Well you were spot on re neutralization. I have adjusted that and lo and behold we have a good dip. On 20m I only get 60 watts out but on 40 I get the full 100 and the max IC I can get on 20 is 200ma.
>

> Didn't spend a great deal of time on the neutralizing and will do a more meticulous set up this evening - as per the book.
>
> Vic
>
> PS. Also get a dip on 80m with around 100w on quite a low gain setting.
>
> ----Original Message----
> From: k4oah@...
> Date: 18/07/2008 14:54
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>
>
>
>
>
>
>
>
> Vic -
>
> Wow! You might want to consider using 6GJ5s for finals. They are a
> drop-in replacement for the 6JB6, the only difference being that the
> Suppressor (Beam) elements are tied to the cathode internally, rather
> than being brought out to a separate pin. Since the Drake PAs are
> grounded cathode, AB1, this makes no difference in the operation. As
> with the 6JB6, they must be neutralized correctly, and there is brand
> sensitivity. If you can find 6JG5(A)s from Sylvania, Zenith, RCA or GE,
> in that order, they will work just as well and are lots cheaper.
>
> You didn't answer my other questions.... Does it do this on ALL
> bands? Does the RF TUNE control peak in the right portion of the scale?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> g4jss@... wrote:
>
>> Hi Garey
>>
>> Thanks for info. When I think about it calmly you are obviously right about the driver coupling cap. I say calmly because earlier in the week there was a loud bang from my FT102 and when the Drake went that was the last straw for this week!
>>
>> Strangely the fault on the 102 was also in the tank cct. but fortunately very visible - the 2kv anode coupling cap had blown apart and the EHT had arced across to earth. Easy to see and easy to fix.

>>
>> Will go over the Pi cct. with a fine tooth comb - can't afford another set of PA's.
Don't know about the U.S. but here they are $76 each.
>>
>> Many thanks - will let you know what I find.
>>
>> Vic - G4JSS
>>
>> ----Original Message----
>> From: k4oah@...
>> Date: 17/07/2008 19:36
>> To: <DrakeRadio@yahoogroups.com>
>> Subj: Re: [DrakeRadio] T-4XC
>>
>>
>>
>>
>>
>>
>>
>> Vic -
>>
>> OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what
>> made them desirable for PA use (High plate currents at relatively plate
>> voltages) also causes them to destroy themselves if the plate current is
>> not controlled.
>>
>> Does this occur on all bands? Does the TUNE control peak in the
>> appropriate area for the band selected?
>>
>> I suspect a bad switch contact or solder joint in the Pi Net area. I
>> don't think the driver coupling would be the problem, as with NO drive
>> the PA should just sit at idle. The Plate blocking cap could be open.
>> I'd start with a careful inspection of the wiring and solder of the Pi
>> Net components, with ohmmeter checks to be sure the PLATE cap stator is
>> connected to the coil and that the appropriate LOAD cap sections for the
>> band selected are connected. The large Dur-Mica caps arranged around
>> switch section G are additional load capacity for the low bands.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>> g4jss@... wrote:
>>
>>
>>> Hello again Garey
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>>> Yep the bias can be set and the -ve voltage is OK. The EHT is also OK.
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>>>
>>>
>>>
>>> Vic
>>>
>>>
>>> From: k4oah@...
>>> Date: 17/07/2008 16:04
>>> To: <DrakeRadio@yahoogroups.com>
>>> Subj: Re: [DrakeRadio] T-4XC
>>>
>>> Vic -
>>>
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>>> Have you checked voltage from Bias supply? Should be variable from
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>>>> Hello all
>>>> Problems with Tx
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>>>> The found that PA's had gone along with the fuse.
>>>> Replaced fuse and PA's. Now got IC but can't get a dip. All the plate
>>>> control seems to do is lower or higher the IC depending which way I
>>>> rotate it. Basically I think what I am trying to say is that I can't
>>>> get the tank circuit to resonate.
>>>> Any suggestions as to the most likely cause, please.
>>>>
>>>> Vic
>>>>
>

Is big brother watching you? http://www.tiscali.co.uk/security
---

[Non-text portions of this message have been removed]

968. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-19 14:54:40 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 968

Hi Garey

Just a quick one re the 6GJ5's. Are these a direct replacement without circuit mods?

Just checked and they are less than half the price of the the 6JB6's.

Must be a downside to the 6GJ5 - perhaps you can help on that.

Oh! the T-4XC is up and running again thanks to your valuable advice and help.

73

Vic

----Original Message----
From: k4oah@...
Date: 18/07/2008 14:54
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

Wow! You might want to consider using 6GJ5s for finals. They are a drop-in replacement for the 6JB6, the only difference being that the Suppressor (Beam) elements are tied to the cathode internally, rather than being brought out to a separate pin. Since the Drake PAs are grounded cathode, AB1, this makes no difference in the operation. As with the 6JB6, they must be neutralized correctly, and there is brand sensitivity. If you can find 6JG5(A)s from Sylvania, Zenith, RCA or GE, in that order, they will work just as well and are lots cheaper.

You didn't answer my other questions.... Does it do this on ALL bands? Does the RF TUNE control peak in the right portion of the scale?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> Thanks for info. When I think about it calmly you are obviously right about the driver coupling cap. I say calmly because earlier in the week there was a loud bang from my FT102 and when the Drake went that was the last straw for this week!
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> Strangely the fault on the 102 was also in the tank cct. but fortunately very visible -

the 2kv anode coupling cap had blown apart and the EHT had arced across to earth. Easy to see and easy to fix.
>
> Will go over the Pi cct. with a fine tooth comb - can't afford another set of PA's. Don't know about the U.S. but here they are $76 each.
>
> Many thanks - will let you know what I find.
>
> Vic - G4JSS
>
> ----Original Message----
> From: k4oah@...
> Date: 17/07/2008 19:36
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>
>
>
>
>
>
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> Vic -
>
> OK.. Well the finals "suffer" from "sweep tube syndrome", i.e., what
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> Net components, with ohmmeter checks to be sure the PLATE cap stator is
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> band selected are connected. The large Dur-Mica caps arranged around
> switch section G are additional load capacity for the low bands.
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> g4jss@... wrote:
>
>> Hello again Garey
>>

>> Yep the bias can be set and the -ve voltage is OK. The EHT is also OK.
>>
>> When I try and get a dip the IC goes down but no dip or rf out. if I turn the plate control clockwise the IC rises and I get about 40 watts out. The load control makes no difference at all.
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>> Date: 17/07/2008 16:04
>> To: <DrakeRadio@yahoogroups.com>
>> Subj: Re: [DrakeRadio] T-4XC
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>>> Replaced fuse and PA's. Now got IC but can't get a dip. All the plate
>>> control seems to do is lower or higher the IC depending which way I
>>> rotate it. Basically I think what I am trying to say is that I can't
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>>> Any suggestions as to the most likely cause, please.
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>>> Vic
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> --
> Is big brother watching you? http://www.tiscali.co.uk/security
> --
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> [Non-text portions of this message have been removed]
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>
> ----------------------------------
>
> Yahoo! Groups Links
>
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.1/1559 - Release Date: 7/17/2008 6:08 PM
>
>
>
>

Is big brother watching you? http://www.tiscali.co.uk/security
----

[Non-text portions of this message have been removed]

969. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-19 16:06:29 UTC
From: Garey Barrell
Topic: 606 Message: 969

Vic -

Drop in replacement. No changes other than to neutralize.

Again, brand sensitive, just like the 6JB6.

Preferred Sylvania, Zenith, RCA, GE in that order. Other brands may or
may not work, depending upon who really made them.

Glad you got the T-4XC going!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> Just a quick one re the 6GJ5's. Are these a direct replacement without circuit mods?
>
> Just checked and they are less than half the price of the the 6JB6's.
>
> Must be a downside to the 6GJ5 - perhaps you can help on that.
>
> Oh! the T-4XC is up and running again thanks to your valuable advice and help.
>
> 73
>
> Vic
>
>
>

970. AC-4 POWER SUPPLY

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-19 21:06:02 UTC
From: Walter Milton
Topic: 970 Message: 970

Hello All,

I purchased a AC-4 sometime ago and never tested to see if it was functional. I decided to change out all the capacitors with the AC-4R PCB kit. I have done one earlier when I lost the bias circuit which took out a new set of PhilipsECG 6JB6's. I have 115 VAC on the primary windings and nothing on the secondary nor the filament. With a DVM I have continuity between the primary coils and continuity between each secondary section. I show no continuity
between the primary/secondary or between any section and ground.

Does anyone know the ohms reading for the primary and the individual secondary sections? Also, is it possible to still find just the XTRM for the power supply?

I am open to all suggestions.

Walt.
Psalm 1
A child of the living God

[Non-text portions of this message have been removed]

971. Estate radios,how to start out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-20 23:15:15 UTC
From: william rock
Topic: 971 Message: 971

Hi, Just purchased an R4A and a T4X with power supply, not used for years. Also a R4B and T4XB with power supply. I need to find out how to get them up and running. I have a Varaiac and can bring up the voltage slowly, but how much, for how long and should I hook all 3 pieces and bring them up or just the power supply ? Any help would be greatly appreciated. I would like to put at least one set on hf. KI4EWI

[Non-text portions of this message have been removed]

972. TR-3 Parts For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-22 16:51:45 UTC
From: tjb813
Topic: 972 Message: 972

I am parting out a TR-3. If you need something contact me off-list.

973. R4B needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-23 18:36:57 UTC
From: Floyd Sense
Topic: 973 Message: 973

I'm looking for an R4B for a special project. The nicer looking the better, but will consider all offers. What have you?

73, Floyd - K8AC

974. TR4C 20M tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-28 03:35:02 UTC
From: Paul
Topic: 974 Message: 974

While testing my TR4C I noticed that the the RF tune control peaked the receiver noise about mid range on 80 & 40,and 10M. On 15 M it peaked around 2-3. However on 20M the RF tune peaked at 0 at 14.000 and 5-6 at 14.350. On transmit with the RF tune peaked at 0 I could only get maybe 50 watts (fully tuned up into a dummy load) out unless I turned the Xmit gain up to the 10:00 position. The other bands were averaging around 100 watts with the Xmit gain control set at 9:00 (40M was the best at 125 watts). In a conversation with my dad who I shared the rig with when it was new he said he never did any alignment or touched any of the tuning slugs in the cans while he had the radio. He mentioned that he thought there was a statement concerning 20M operation but wasn't sure.

I myself have not done any alignment on the radio as of this writing. With the receiver noise peaks differently that the other bands I am wondering if I need to go in and peak the circuits for 20M as per the alignment procedure.As far as its operation goes its been a great radio and I plan to use it quite extemsively and keep the TS 520S asa backup rig since it has the 250 Hz filter in

975. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-07-28 08:12:49 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 975

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

976. R4-A T-4XC TRANSCEIVE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-01 14:02:12 UTC
From: tnham63
Topic: 976 Message: 976

Can you use the R-4A with the T-4XC to transceive
just like the R-4B?
Thanks
Wink

977. Re: [DrakeRadio] R4-A T-4XC TRANSCEIVE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-01 14:21:16 UTC
From: Garey Barrell
Topic: 976 Message: 977

Yes. ALL R-4 / T-4 units are mix and match.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Can you use the R-4A with the T-4XC to transceive
> just like the R-4B?
> Thanks
> Wink
>
>
>

978. Crystal Pairs for TR-22C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-01 15:11:13 UTC
From: hetman45
Topic: 978 Message: 978

Hi,

I am looking for the following crystal pairs for my TR-22C (HC-25/U)

147.3750R- 147.9750 T
146.9850R- 146.3850 T
146.8950R- 146.2950 T I realize these tertiary pairs are difficult finds but any assistance is appreciated.

73, Joel AE2JL

979. PL for TR-22C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-03 12:18:08 UTC
From: hetman45
Topic: 979 Message: 979

Hi Guys,

After many moons on HF I've decided to get involved with VHF again,namely 2 meters . I picked up a TR-22C in very nice condx but I find that almost all the repeaters in my area are PL accessed. Is there any way I can convert the TR-22C to transmit sidetones?

Tnx for your assistance.

73, Joel AE2JL

980. Re: PL for TR-22C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-03 12:45:59 UTC
From: Jeff
Topic: 979 Message: 980

Hi Joel,

I have a UV-3 and added an aftermarket tone encoder to it, I used a TS-32 from Communications Specialists. I don't see it on thier website anymore but just google out "tone encoder" you'll find a bunch that will work no problem.

73,
Jeff K8KZB

--- In DrakeRadio@yahoogroups.com, "hetman45" <jlevy01@...> wrote:
>
> Hi Guys,
>
> After many moons on HF I've decided to get involved with VHF
> again,namely 2 meters . I picked up a TR-22C in very nice condx but I
> find that almost all the repeaters in my area are PL accessed. Is
there
> any way I can convert the TR-22C to transmit sidetones?
>
> Tnx for your assistance.
>
> 73, Joel AE2JL
>

981. Re: PL for TR-22C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-03 12:58:49 UTC
From: hetman45
Topic: 979 Message: 981

--- In DrakeRadio@yahoogroups.com, "Jeff" <k8kzb@...> wrote:
>tnx Jeff- I will. 73, Joel AE2JL
> Hi Joel,
>
> I have a UV-3 and added an aftermarket tone encoder to it, I used a
TS-
> 32 from Communications Specialists. I don't see it on thier website
> anymore but just google out "tone encoder" you'll find a bunch that
> will work no problem.
>
> 73,
> Jeff K8KZB
>
> --- In DrakeRadio@yahoogroups.com, "hetman45" <jlevy01@> wrote:
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> >
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> > any way I can convert the TR-22C to transmit sidetones?
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> > Tnx for your assistance.
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> > 73, Joel AE2JL
> >
>

982. Re: TR4C 20M tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-06 01:10:07 UTC
From: w6ou
Topic: 974 Message: 982

I have a TR4CW and it is normal to set the peaking control at 0 for 14.0 MHz and around 5 for 14.3 MHz. Also, the drive control setting varies from 10 o'clock for 14.0 MHz to 9 o'clock at 14.3 MHz.

983. Re: TR4C 20M tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-06 03:28:21 UTC
From: Tim Stotenburg
Topic: 974 Message: 983

I own a Tr-4 here, and from the schematics there isn't a lot of difference. Weather into a dummy or my antenna all bands are between 6 and 7 on the peak rf with my rig.
With 100 watts peak are you sure you are using the tune up procedures correctly? How familiar are you with the Drake? Did this just occur? Is your patch cord in good condition?

Tim

984. Looking for crystals for my 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-07 02:04:39 UTC
From: k9qb
Topic: 984 Message: 984

Am looking for a couple of crystals for my newly acquired Drake 2A.

Can any of you guys or gals out there tell me where I can locate 14 mhz and a 14.5 mhz, HC6 style, crystals?

Mike, WA5PSE

985. TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-07 07:54:04 UTC
From: Victor Waddington
Topic: 985 Message: 985

Hi
Recently acquired one of these and it works Ok except that it suffers from excessive hum. At low levels of gain you can hear more hum than floor level noise.
Any suggestions, please.
Vic - G4JSS

987. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-07 16:18:24 UTC
From: w6ou
Topic: 985 Message: 987

Vic
I assume you've checked the 250 volts dc for excessive ripple and you have wiggled the power supply cable connector to check for poor connections.

I had speaker hum in my TR4CW. The speaker cable shield goes into a power supply cable connector socket. The mating pin in the transceiver is wired to a ground connection bracket. That bracket is screwed into the rear of the chassis using one of the screws which hold the connector in place. It is visible when you remove the bottom cover. I removed the screw, and slipped a folded 600-grit sandpaper in between and sanded the mating surfaces. I replaced the screw and my hum was gone! Hope this helps.
Jim, W6OU

988. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-07 18:08:44 UTC
From: w6ou
Topic: 985 Message: 988

Vic
Another idea: To verify the speaker hum is caused by poor speaker cable return grounding, connect your speaker to the phone jack and see if the hum disappears. The phone jack has a good ground to the chassis.
Jim, W6OU

989. Re: [DrakeRadio] TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-07 18:15:24 UTC
From: K5VSE
Topic: 985 Message: 989

Hi Vic,

I had the same problem on a couple of TR-4's and TR-4C's. It was all related to the AC-4 power supply. I see that some posts are looking for the simple solution, but it seems to never be that way. I might suggest to swap out power supplies if you have a spare, or if all else fails, order the upgrade kit from Mike Bryce at the Heathkit Shop. It's well worth the money, and I've done about 8-9 of them. The power supply can create all kinds of strange problems. Hope this helps you out.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

990. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-08 14:16:06 UTC
From: g4jss@tiscali.co.uk
Topic: 985 Message: 990

Hi Jim

Thanks for your input which has worked out very well. Thought, well if I am going to change one cap I might as well change them all so changed all the caps in the 250v cct of AC4 and no hum at all. Didn't use a double (hadn't got one!) and a single but 3 singles wired up in the same configuration. Now no hum. Also, there was a bad earth on the speaker shielded cable which has also been put right so that was probably a contributory cause as well.

Station here is now just about all Drake and very happy with it.

Just one more question. According to the copy handbook I have the standing current should be set at 100ma and final loading of IC to around 450ma. That seems very high to me. What figures do you use with your TR4CW?

73

Vic- G4JSS

Vic
Another idea: To verify the speaker hum is caused by poor speaker
cable return grounding, connect your speaker to the phone jack and see
if the hum disappears. The phone jack has a good ground to the chassis.
Jim, W6OU

2 for 1 on ID protection with Tiscali SpyGuard (offer ends 14th August 2008) -
http://www.tiscali.co.uk/spyguard

[Non-text portions of this message have been removed]

991. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-08 14:58:09 UTC
From: Garey Barrell
Topic: 985 Message: 991

Vic -

Drake issued a Tuning Alteration Notice when the FCC tightened up the "Purity of Emissions" regulation in this country. It specifies limiting Plate current to 350 mA on 80, 40 and 15M to meet the new specifications for third order distortion. The notice said that the manual instruction to tune for maximum output could be used for 20 and 10M.

450 mA sounds a bit high, but is quite possibly a result of the meter shunt resistor (R45, 2 ohm 1/2W) increasing in value, causing the meter to read high. This is not real critical, except that this same meter is used to set the idle current to 100 mA. If the idle current is set LOW, because of the meter's inaccuracy, the distortion products will be higher still.

A part of the restoration of these transceivers should be verifying the accuracy of the plate meter. Measure R45, and then measure the calculated voltage for 100 mA and select R13 to calibrate the meter.

Typical OUTPUT power for a TR-4C is 200 W on 80, 40 and 20M, 175W on 15M, and 150W on 10M.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Jim
>
> Thanks for your input which has worked out very well. Thought, well if I am going to change one cap I might as well change them all so changed all the caps in the 250v cct of AC4 and no hum at all. Didn't use a double (hadn't got one!) and a single but 3 singles wired up in the same configuration. Now no hum. Also, there was a bad earth on the speaker shielded cable which has also been put right so that was probably a contributory cause as well.
>
> Station here is now just about all Drake and very happy with it.
>
> Just one more question. According to the copy handbook I have the standing current should be set at 100ma and final loading of IC to around 450ma. That seems very high to me. What figures do you use with your TR4CW?
>
> 73
>
> Vic- G4JSS

>
>

992. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-08 15:39:28 UTC
From: g4jss@tiscali.co.uk
Topic: 985 Message: 992

Hello again Gary

Well it's likely that there are similar directives here but I don't know . My main interest is keeping the things running - one way or the other!

I run the T-4xc and the TR4c at around 300mA which gives me about 100w out. Probably enough for CW operation.

But thank you for your input.

Enjoy the Olympics - if you can see them!!

Vic

----Original Message----
From: k4oah@...
Date: 08/08/2008 15:58
To: <DrakeRadio@yahoogroups.com>, "g4jss@..."<g4jss@...>
Subj: Re: [DrakeRadio] Re: TR4C

Vic -

Drake issued a Tuning Alteration Notice when the FCC tightened up the "Purity of Emissions" regulation in this country. It specifies limiting Plate current to 350 mA on 80, 40 and 15M to meet the new specifications for third order distortion. The notice said that the manual instruction to tune for maximum output could be used for 20 and 10M.

450 mA sounds a bit high, but is quite possibly a result of the meter shunt resistor (R45, 2 ohm 1/2W) increasing in value, causing the meter to read high. This is not real critical, except that this same meter is used to set the idle current to 100 mA. If the idle current is set LOW, because of the meter's inaccuracy, the distortion products will be higher still.

A part of the restoration of these transceivers should be verifying the accuracy of the plate meter. Measure R45, and then measure the calculated voltage for 100 mA and select R13 to calibrate the meter.

Typical OUTPUT power for a TR-4C is 200 W on 80, 40 and 20M, 175W on 15M, and 150W on 10M.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Jim
>
> Thanks for your input which has worked out very well. Thought, well if I am going to change one cap I might as well change them all so changed all the caps in the 250v cct of AC4 and no hum at all. Didn't use a double (hadn't got one!) and a single but 3 singles wired up in the same configuration. Now no hum. Also, there was a bad earth on the speaker shielded cable which has also been put right so that was probably a contributory cause as well.
>
> Station here is now just about all Drake and very happy with it.
>
> Just one more question. According to the copy handbook I have the standing current should be set at 100ma and final loading of IC to around 450ma. That seems very high to me. What figures do you use with your TR4CW?
>
> 73
>
> Vic- G4JSS
>
>

2 for 1 on ID protection with Tiscali SpyGuard (offer ends 14th August 2008) - http://www.tiscali.co.uk/spyguard

---

[Non-text portions of this message have been removed]

993. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-09 13:55:55 UTC
From: Garey Barrell
Topic: 993 Message: 993

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

994. Crystals FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-09 22:56:47 UTC
From: Ken Simpson, W8EK
Topic: 994 Message: 994

Crystals For Sale:

I found an assortment of crystals that can be used for
heterodyning crystals for Drake (and other) rigs.

These are HC-6 Crystals, with the actual crystal frequency listed in
MHz.

7.98, 9.5, 10.5, 11.5, 12.0, 15.0, 16.0, 17.0, 24.7, 25.0,
29.0, 30.75, 32.5, 39.0, 41.9, 42.7, 44.5, 46.0, 46.7, 49.9, 51.1,

Other crystals available:

1000.00 KHz for crystal calibrator

FT-243 Crystals for 80, 40, and 10 meter ham bands

3500, 3625 (W), 3675 (W), 3825, 3838, 3850, 3980, 3990

7081 (HC-6), 7094 (HC-6), 7160, 7174 (HC-6), 7175, 7186,
7189, 7198.5 (HC-6), 7200 (HC-6), 7200, 7207, 7225,
7236.2 (HC-6), 7248, 7261 (FT-243 & HC-6), 7283.33 (HC-6)

7325 (29.3), 7375 (29.5), 7395 (29.58), 7400 (29.6),
7404 (29.616), 7410 (29.64)

All crystals are $8 each, plus shipping from Florida.

I also have many 2 meter crystals in HC-25 holders.
Please e-mail your needs.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

995. Wanted R-4C chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-10 12:29:40 UTC
From: vk5abc
Topic: 995 Message: 995

Hello Everyone
Is there anyone on the list with a junker Drake R-4C they are willing
to sell. If you can help, please contact me off the list.
73 Lee VK5ABC

996. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-11 07:36:40 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 996

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

997. Fw: [Drakelist] New TR-7 Extender Home Page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-15 15:16:07 UTC
From: Don
Topic: 997 Message: 997

Subject: [Drakelist] New TR-7 Extender Home Page

Drake fans - After my CQD for help finding a new home for the TR-7 Service Kit home page, Ron Baker WB4HFN, offered to include the page in his outstanding web site. If you haven't seen his site its worth touring. http://www.wb4hfn.com/DRAKE/DrakeTechTips.htm To assist making TR-7 help "one stop" I've sent the page to Ron and he has assigned this url to it.

For the updated TR-7 Service kit information at its new location, check out http://wb4hfn.com/Services/W7AVK/tr7ext2.htm

Thanks to all who answered my call for help.

73 Bob W7AVK

998. FS; Drake AA-10,two meter amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-15 17:08:15 UTC
From: hetman45
Topic: 998 Message: 998

Drake AA-10,two meter amplifier designed for TR-22/22C vhf transceivers (1-1.8 B now excess to my needs. In very good condx, with original manual. Price,$75 shipped to CONUS.Tnx, 73, Joel AE2JL

999. Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-15 21:14:18 UTC
From: Floyd Sense
Topic: 999 Message: 999

I need a 459 KHz crystal for the SP-75 speech processor. I've been to all the usual sources of new crystals and they either no longer produce crystals that low in frequency, or the price to make a new one is astronomical (I received only one quote - $115!). If you have one of these crystals, or know where one can be found for certain, please email me.

1000. Re: [DrakeRadio] Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 06:26:19 UTC
From: Don
Topic: 999 Message: 1000

have tried here?:

http://www.af4k.com/crystals.htm

or maybe 'tweak' a 455khz crystal?

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Friday, August 15, 2008 3:14 PM
Subject: [DrakeRadio] Needed: 459 KHz xtal for SP-75

I need a 459 KHz crystal for the SP-75 speech processor. I've been to all the usual sources of new crystals and they either no longer produce crystals that low in frequency, or the price to make a new one is astronomical (I received only one quote - $115!). If you have one of these crystals, or know where one can be found for certain, please email me.

[Non-text portions of this message have been removed]

1001. Re: Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 11:52:40 UTC
From: Floyd Sense
Topic: 999 Message: 1001

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> have tried here?:
>
> http://www.af4k.com/crystals.htm
>
> or maybe 'tweak' a 455khz crystal?
>
>
>
>

Nope - somehow missed that one. I've emailed him and maybe he'll have something I can use. The circuit uses a trimmer to pull the crystal to the exact frequency, but 4 KHz is probably a bit of a stretch. The crystal is in a small can, so can't really do any surgery on the crystal blank itself. But, it does remind me of my novice days a few decades ago when we routinely shifted our crystal frequencies by either rubbing a lead pencil on the crystal blank (moved the freq down) or ground it down (moved freq up) with Ajax and water on a piece of glass! Thanks for the link.

1002. Re: [DrakeRadio] Re: Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 12:57:49 UTC
From: Don
Topic: 999 Message: 1002

Let us know if he is able to get for you !
Don

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 18, 2008 5:52 AM
Subject: [DrakeRadio] Re: Needed: 459 KHz xtal for SP-75

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> have tried here?:
>
> http://www.af4k.com/crystals.htm
>
> or maybe 'tweak' a 455khz crystal?
>
>
>
>

Nope - somehow missed that one. I've emailed him and maybe he'll
have something I can use. The circuit uses a trimmer to pull the
crystal to the exact frequency, but 4 KHz is probably a bit of a
stretch. The crystal is in a small can, so can't really do any
surgery on the crystal blank itself. But, it does remind me of my
novice days a few decades ago when we routinely shifted our crystal
frequencies by either rubbing a lead pencil on the crystal blank
(moved the freq down) or ground it down (moved freq up) with Ajax and
water on a piece of glass! Thanks for the link.

[Non-text portions of this message have been removed]

1003. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 16:08:57 UTC
From: mk_vr2ykw
Topic: 817 Message: 1003

Hello Jose,

Have you done the R4b alignment? I got a R4b from auction. It needs re-alignment. I feel it is a little bit low sensitive (-90dBm at 10db SINDA AM in all bands)and noisy when connect an antenna. Do you have any idea on it?
Thanks,
mkchan

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hello!
>
> I am working on an R-4B and have a problem which, for sure, someone has already
> had. It works fine on USB but signals sound garbled on LSB. Please, could you
> point me to the needed adjustment?
>
> Thanks and best regards,
>
> JOSE
>
> --
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
> Vintage Radio: http://jvgavila.com
> Vintage Test Equipment: http://jvgavila.com/testeq.htm
>
> European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap
>

1004. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 17:42:03 UTC
From: w5rkl
Topic: 817 Message: 1004

Hello Jose,

It appears from description of your problem the source of the problem is the R4B's 50Khz BFO oscillator transformer T11 is improperly adjusted. If T11 is improperly adjusted, the 50Khz BFO oscillator signal will not be properly fall within the receiver's PASSBAND. This is why one sideband is readable while the other isn't.

I recommend, as "MK" did, perform a complete alignment on the R4B receiver. Follow the alignment instructions in the R4B manual, starting on page 27 paragraph 6.4 If you do not have the R4B manual you can download it free at the following website.

http://bama.edebris.com/manuals/drake/r4b/

Aligning the R4B is not difficult as long as the instructions in the manual are followed. I would not simply adjust T11 without the test equipment called for in the manual as you can make the problem worse.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "mk_vr2ykw" <mk_vr2ykw@...> wrote:
>
> Hello Jose,
>
> Have you done the R4b alignment? I got a R4b from auction. It needs
> re-alignment. I feel it is a little bit low sensitive (-90dBm at 10db
> SINDA AM in all bands)and noisy when connect an antenna. Do you have
> any idea on it?
> Thanks,
> mkchan
>
> --- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@> wrote:
> >
> > Hello!
> >
> > I am working on an R-4B and have a problem which, for sure, someone
> has already
> > had. It works fine on USB but signals sound garbled on LSB. Please,
> could you
> > point me to the needed adjustment?
> >
> > Thanks and best regards,
> >

> > JOSE
> >
> > ----------
> > 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> > La Canyada - Valencia (SPAIN) - Loc: IM99SM
> >
> > Vintage Radio: http://jvgavila.com
> > Vintage Test Equipment: http://jvgavila.com/testeq.htm
> >
> > European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap
> >
>

1005. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 18:02:24 UTC
From: w5rkl
Topic: 817 Message: 1005

Hello MK,

More than likely, as you have indicated, your low sensitivity problem with your newly obtained Drake R4B is caused by age and alignment.

R.L. Drake built the R4B and other Drake receiver's well and most only need a slight "touch up" in alignment. However, I've run across a lot of vintage Drake receivers, transmitters, and transceivers where previous owners adjusted transformers and capacitors without knowing what they were doing.

It's very important to follow the manual's alignment step and the order in which they are done. If this is not followed, the problems can be easily made worse than they already are.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "mk_vr2ykw" <mk_vr2ykw@...> wrote:
>
> Hello Jose,
>
> Have you done the R4b alignment? I got a R4b from auction. It needs
> re-alignment. I feel it is a little bit low sensitive (-90dBm at 10db
> SINDA AM in all bands)and noisy when connect an antenna. Do you have
> any idea on it?
> Thanks,
> mkchan
>
> --- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@> wrote:
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> > Hello!
> >
> > I am working on an R-4B and have a problem which, for sure, someone
> has already
> > had. It works fine on USB but signals sound garbled on LSB. Please,
> could you
> > point me to the needed adjustment?
> >
> > Thanks and best regards,
> >
> > JOSE
> >
> > ---
> > 73 EB5AGV / EC5AAU - JOSE V. GAVILA

> > La Canyada - Valencia (SPAIN) - Loc: IM99SM
> >
> > Vintage Radio: http://jvgavila.com
> > Vintage Test Equipment: http://jvgavila.com/testeq.htm
> >
> > European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap
> >
>

1006. Re: [DrakeRadio] Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 21:09:20 UTC
From: W6IDS
Topic: 817 Message: 1006

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 18, 2008 1:42 PM
Subject: [DrakeRadio] Re: Help with R-4B alignment

> Hello Jose,
>
<SNIP>

> I recommend, as "MK" did, perform a complete alignment on the R4B
> receiver. Follow the alignment instructions in the R4B manual,
> starting on page 27 paragraph 6.4 If you do not have the R4B manual
> you can download it free at the following website.
>
> http://bama.edebris.com/manuals/drake/r4b/
>
<SNIP>

Mike,

Is an account needed to be established before anyone is allowed to download
manuals?

Howard Ws6IDS
Richmond, IN

1007. RE: [DrakeRadio] Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 21:38:17 UTC
From: W6CCD
Topic: 817 Message: 1007

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of W6IDS
Sent: Monday, August 18, 2008 2:09 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Help with R-4B alignment

----- Original Message -----
From: "w5rkl" <w5rkl@yahoo.com>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 18, 2008 1:42 PM
Subject: [DrakeRadio] Re: Help with R-4B alignment

> Hello Jose,
>
<SNIP>

> I recommend, as "MK" did, perform a complete alignment on the R4B
> receiver. Follow the alignment instructions in the R4B manual,
> starting on page 27 paragraph 6.4 If you do not have the R4B manual
> you can download it free at the following website.
>
> http://bama.edebris.com/manuals/drake/r4b/
>
<SNIP>

Mike,

Is an account needed to be established before anyone is allowed to download manuals?

Howard Ws6IDS
Richmond, IN

Doesn't look like it. I just clicked on the link shown above, and went directly to the BAMA mirror site for the file. Note that it is a DJVU file, so you will need to have a DJVU viewer on your computer (free.) See the help on that page.

Dick - W6CCD

1008. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 22:23:01 UTC
From: w5rkl
Topic: 817 Message: 1008

There's no account requirement to download manuals. As stated by W6IDS, you will need to DJVU reader which can be obtained through an icon link from the bama website link. Click on the link below then when the page comes up, scroll down to the bottom of the page and click on the DjVu icon.

http://bama.edebris.com/manuals/

The DjVu viewer is like the Acrobat Reader. When you install it, everytime you click on a DjVu file the DjVu read comes up so you can read the file.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "W6CCD" <w6ccd@...> wrote:
>
>
>
> -----Original Message-----
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of W6IDS
> Sent: Monday, August 18, 2008 2:09 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Re: Help with R-4B alignment
>
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, August 18, 2008 1:42 PM
> Subject: [DrakeRadio] Re: Help with R-4B alignment
>
>
> > Hello Jose,
> >
> <SNIP>
>
> > I recommend, as "MK" did, perform a complete alignment on the R4B
> > receiver. Follow the alignment instructions in the R4B manual,
> > starting on page 27 paragraph 6.4 If you do not have the R4B manual
> > you can download it free at the following website.
> >
> > http://bama.edebris.com/manuals/drake/r4b/

> >
> <SNIP>
>
> Mike,
>
> Is an account needed to be established before anyone is allowed to
download
> manuals?
>
> Howard Ws6IDS
> Richmond, IN
>
>
> Doesn't look like it. I just clicked on the link shown above, and went
> directly to the BAMA mirror site for the file. Note that it is a
DJVU file,
> so you will need to have a DJVU viewer on your computer (free.) See the
> help on that page.
>
> Dick - W6CCD
>

1009. Re: Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-18 23:18:41 UTC
From: Floyd Sense
Topic: 999 Message: 1009

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> Let us know if he is able to get for you !
> Don
>
>

Heard back from him - doesn't have the crystal. Look for a non-working SP-75 on eBay shortly!

73, K8AC

1010. Re: [DrakeRadio] Re: Needed: 459 KHz xtal for SP-75

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 02:38:29 UTC
From: Don
Topic: 999 Message: 1010

Sorry that he wasn't able to help, his website looked promising.
Best of luck Floyd !
73
Don
AD7LL

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 18, 2008 5:18 PM
Subject: [DrakeRadio] Re: Needed: 459 KHz xtal for SP-75

--- In DrakeRadio@yahoogroups.com, "Don" <drfrasher@...> wrote:
>
> Let us know if he is able to get for you !
> Don
>
>

Heard back from him - doesn't have the crystal. Look for a non-working
SP-75 on eBay shortly!

73, K8AC

[Non-text portions of this message have been removed]

1011. TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 09:08:06 UTC
From: Victor Waddington
Topic: 985 Message: 1011

Hi
Is there a mod to add RIT without damaging the case too much from the original, please?
Vic - G4JSS

1012. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 14:52:33 UTC
From: w5rkl
Topic: 985 Message: 1012

Hello Vic,

I'm not aware of an RIT modification for the TR-4C. This doesn't mean one doesn't exist.

The one thing that must be taken into consideration when modifying a Drake PTO for RIT is the PTO's stability. Drake PTO's are quite stable and any modification/changes made to incorporate RIT can affect the PTO's stability in both receive and transmit.

One could compare the TR4C's schematic against the TR4CW's schematic, make the RIT circuit changes to the TR4C. However, if this isn't done right, the PTO's stability and frequency can be affected in both transmit and receive.

A much safer, more stable, and easier route is to obtain either a Drake RV3 or RV4C remote VFO. The RV3 remote VFO can be modified to work with the TR-4C by simply adding a resistor between the RV3's voltage regulator tube and the RV'3 function switch then simply plug the RV3 into the bottom socket on the TR4C. By going the RV3 or RV4C remote VFO route doesn't require any modification to the TR4C, no drilling a hole in the front panel for the RIT control pot, and the TR4C's PTO's stability is maintained. The addition of the resistor to the RV3 does not affect the RV3 or the TR4C's PTO stability one bit. Of course, the RV4C is a plug and play addition to the TR4C, not modification needed.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hi
> Is there a mod to add RIT without damaging the case too much from the
> original, please?
> Vic - G4JSS
>

1013. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:05:33 UTC
From: Garey Barrell
Topic: 985 Message: 1013

The TR-4CwRIT PTO is different than all the other 4 line PTOs. There is a small terminal on the side of ALL PTO units, but while the "RIT" version converts an applied DC voltage to a 6-10 kHz shift, all the earlier units shift less than 1 kHz when an external capacitance to ground is applied. The same "RIT" version PTO was used in the TR-7.

Mike has the right idea, stick with the RV-3/4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> One could compare the TR4C's schematic against the TR4CW's schematic,
> make the RIT circuit changes to the TR4C.
>
>
> --- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
>> Hi
>> Is there a mod to add RIT without damaging the case too much from the
>> original, please?
>> Vic - G4JSS
>>

1014. Re: [DrakeRadio] Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:14:07 UTC
From: Jose V. Gavila
Topic: 817 Message: 1014

Hello all,

Well, my message was posted some weeks ago and, in the mean time, I found the culprit... it was mostly a missaligned PASSBAND knob!. Yes, curiously enough, USB position was close to be OK but in LSB positions, it was definitely wrong (perhaps a 180 degree missalignment?)

All in all, once I read the alignment procedure, it was pretty obvious something was not OK. I have not yet completed full alignment but it seems someone attempted it with the missplaced knob... oh well.

Thanks a lot for all your suggestions. As I am still in the process of finishing work on it, they will be sure helpful.

Regards,

JOSE

---

73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1015. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:29:34 UTC
From: g4jss@tiscali.co.uk
Topic: 985 Message: 1015

Thanks Mike and Garey

Understand the points you have made. Small sticking point is that trying to source a RV3/4 this side of the pond is like trying to find a dinasaur egg!!

Cheers

Vic

----Original Message----
From: k4oah@...
Date: 19/08/2008 16:05
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: TR4C

The TR-4CwRIT PTO is different than all the other 4 line PTOs. There is
a small terminal on the side of ALL PTO units, but while the "RIT"
version converts an applied DC voltage to a 6-10 kHz shift, all the
earlier units shift less than 1 kHz when an external capacitance to
ground is applied. The same "RIT" version PTO was used in the TR-7.

Mike has the right idea, stick with the RV-3/4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> One could compare the TR4C's schematic against the TR4CW's schematic,
> make the RIT circuit changes to the TR4C.
>
>
> --- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
>> Hi
>> Is there a mod to add RIT without damaging the case too much from the
>> original, please?
>> Vic - G4JSS
>>

2 for 1 on ID protection with Tiscali SpyGuard (offer open to all internet users. Offer ends 18th August 2008) - http://www.tiscali.co.uk/spyguard

---

[Non-text portions of this message have been removed]

1016. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:37:30 UTC
From: w5rkl
Topic: 817 Message: 1016

Hello Jose,

Congratulations. Aligning the 50Khz BFO, as you have seen, requires the PASSBAND knob connected to the PASSBAND variable capacitor to be centered on the front panel marker. I had a similar problem with an early version of the R4C I bought on eBay a few years ago. The PASSBAND knob and associated variable capacitor were correctly centered but the T11 50Khz oscillator transformer adjustment was way off. I still have the R4C but it needs a new set of tubes and some additional work.

Again, congratulations Jose.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hello all,
>
> Well, my message was posted some weeks ago and, in the mean time, I found
> the culprit... it was mostly a missaligned PASSBAND knob!. Yes, curiously
> enough, USB position was close to be OK but in LSB positions, it was
> definitely wrong (perhaps a 180 degree missalignment?)
>
> All in all, once I read the alignment procedure, it was pretty obvious
> something was not OK. I have not yet completed full alignment but it seems
> someone attempted it with the missplaced knob... oh well.
>
> Thanks a lot for all your suggestions. As I am still in the process of
> finishing work on it, they will be sure helpful.
>
> Regards,
>
> JOSE
> --
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
> Vintage Radio: http://jvgavila.com
> Vintage Test Equipment: http://jvgavila.com/testeq.htm
> European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

>

1017. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:35:00 UTC
From: Jose V. Gavila
Topic: 985 Message: 1017

Hi Vic,

>Understand the points you have made. Small sticking point is that trying
>to source a RV3/4 this side of the pond is like trying to find a dinasaur egg!!

Living in Spain, I thought the same... until someone offered me, locally
(in Spain, I mean), a nice, mint looking, TR-4Cw RIT, RV-4C and AC-4/MS-4
for 240 Euro... only problem it has is that the TR-4 is about 100kHz out of
frequency (on main VFO, RV-4C is fine)... guess what I did ;-)?

Anyway I know this is not a common happening (*). Good luck with the search!

Regards,

JOSE

(*) Well, I should be lucky... some weeks ago I bought, also from an
Spanish ham, a decent looking TR-4C along a homemade (but VERY well done)
power supply / speaker, for the princely sum of 90 Euro. Of course, this is
a lots worse offer than the TR-4Cw RIT set but, anyway, it is a good one.
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1018. Re: [DrakeRadio] Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:47:02 UTC
From: Garey Barrell
Topic: 817 Message: 1018

Mike -

The Passband tuner in the 2-A/B & R-4/A/B doesn't use a variable capacitor like the C. The earlier versions use a four-slug rack that is cam driven by the Passband knob. The BFO must be on frequency for all versions!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Hello Jose,
>
> Congratulations. Aligning the 50Khz BFO, as you have seen, requires
> the PASSBAND knob connected to the PASSBAND variable capacitor to be
> centered on the front panel marker. I had a similar problem with an
> early version of the R4C I bought on eBay a few years ago. The
> PASSBAND knob and associated variable capacitor were correctly
> centered but the T11 50Khz oscillator transformer adjustment was way
> off. I still have the R4C but it needs a new set of tubes and some
> additional work.
>
> Again, congratulations Jose.
>
> 73
> Mike
> W5RKL
>
>

1019. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:49:32 UTC
From: Garey Barrell
Topic: 985 Message: 1019

Jose -

Didn't we talk about the TR-4C being "off frequency"?? I thought you
had it fixed!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi Vic,
>
>
>> Understand the points you have made. Small sticking point is that trying
>> to source a RV3/4 this side of the pond is like trying to find a dinasaur egg!!
>>
>
> Living in Spain, I thought the same... until someone offered me, locally
> (in Spain, I mean), a nice, mint looking, TR-4Cw RIT, RV-4C and AC-4/MS-4
> for 240 Euro... only problem it has is that the TR-4 is about 100kHz out of
> frequency (on main VFO, RV-4C is fine)... guess what I did ;-)?
>
> Anyway I know this is not a common happening (*). Good luck with the search!
>
> Regards,
>
> JOSE
>
> (*) Well, I should be lucky... some weeks ago I bought, also from an
> Spanish ham, a decent looking TR-4C along a homemade (but VERY well done)
> power supply / speaker, for the princely sum of 90 Euro. Of course, this is
> a lots worse offer than the TR-4Cw RIT set but, anyway, it is a good one.
> ---
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
>
>

1020. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 15:52:25 UTC
From: Jose V. Gavila
Topic: 985 Message: 1020

Hello Garey,

>Didn't we talk about the TR-4C being "off frequency"?? I thought you
>had it fixed!

Yes, we talked about it but have had no time yet to fix it... I hope it is
just dial missalignment, as you suggested.

Best regards,

JOSE
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1021. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 17:22:56 UTC
From: w5rkl
Topic: 985 Message: 1021

Hello Jose,

Is the 100Khz off frequency problem occurring on "ALL" bands or just one or two?

If only one or two bands are off frequency, the problem is not the PTO but rather the individual affected band's heterodyne oscillator crystals.

Even if the 100Khz off frequency problem occurs on ALL bands, it's quite possible the PTO is not the problem but rather the dial is out of alignment, especially if the 100Khz off frequency problem occurs at the same dial setting on ALL bands.

Other possibilities are the individual band heterodyne oscillator crystals but I seriously doubt all four, 40 through 10 meters, heterodyne oscillator crystals are bad. 80 meters doesn't have or use a heterodyne oscillator crystal. Instead, the heterodyne oscillator operates as a straight through amplifier on 80 meters where the PTO signal and the 9 Mhz IF signal mix to produce the 80 meter operating frequency.

The Drake PTO produces a variable frequency that is between 4.999Mhz and 5.500Mhz, regardless of the band selected.

Just a few thoughts.

73's
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hi Vic,
>
> >Understand the points you have made. Small sticking point is that trying
> >to source a RV3/4 this side of the pond is like trying to find a dinasaur egg!!
>
> Living in Spain, I thought the same... until someone offered me, locally
> (in Spain, I mean), a nice, mint looking, TR-4Cw RIT, RV-4C and AC-4/MS-4
> for 240 Euro... only problem it has is that the TR-4 is about 100kHz out of
> frequency (on main VFO, RV-4C is fine)... guess what I did ;-)?
>

> Anyway I know this is not a common happening (*). Good luck with the
search!
>
> Regards,
>
> JOSE
>
> (*) Well, I should be lucky... some weeks ago I bought, also from an
> Spanish ham, a decent looking TR-4C along a homemade (but VERY well
done)
> power supply / speaker, for the princely sum of 90 Euro. Of course,
this is
> a lots worse offer than the TR-4Cw RIT set but, anyway, it is a good
one.
> ---
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>

1022. Re: Help with R-4B alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 17:27:27 UTC
From: w5rkl
Topic: 817 Message: 1022

Hi Gary,

I seem to have made a mistake. I apologize for that. Thanks Gary for correcting that. Learn something new everyday. :)

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> The Passband tuner in the 2-A/B & R-4/A/B doesn't use a variable
> capacitor like the C. The earlier versions use a four-slug rack
that is
> cam driven by the Passband knob. The BFO must be on frequency for all
> versions!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> w5rkl wrote:
> > Hello Jose,
> >
> > Congratulations. Aligning the 50Khz BFO, as you have seen, requires
> > the PASSBAND knob connected to the PASSBAND variable capacitor to be
> > centered on the front panel marker. I had a similar problem with an
> > early version of the R4C I bought on eBay a few years ago. The
> > PASSBAND knob and associated variable capacitor were correctly
> > centered but the T11 50Khz oscillator transformer adjustment was way
> > off. I still have the R4C but it needs a new set of tubes and some
> > additional work.
> >
> > Again, congratulations Jose.
> >
> > 73
> > Mike
> > W5RKL
> >
> >

>

1023. RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 18:09:39 UTC
From: w5rkl
Topic: 985 Message: 1023

I just downloaded the TR4CW manual on bama's mirror site. There's a schematic of the RIT circuit in the beginning of the manual and a note about it from Drake.

I still believe the safest route is the RV3 or RV4 remote VFO.

Here's the link to the TR4CW's manual. It requires the DjVu reader which can be downloaded through a link on the same bama mirror website (see second link below).

http://bama.edebris.com/manuals/drake/tr4cw/

To download the free DjVu reader, use the following link and click on the DjVu icon.

http://bama.edebris.com/manuals/drake

73
Mike
W5RKL

1024. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 18:58:55 UTC
From: w5rkl
Topic: 985 Message: 1024

Looking at Drake's TR4CW RIT circuit in the TR4CW manual, I looked up
the two main components of Drake's TR4CW RIT circuit. This is what I
found through Mouser Electronics online catalog.

Drake's chip part number is: MC14016BCP

Mouser's replacement part number: 512-CD4016BCN
Mouser's price for the 14 pin dip chip: 48 cents

Drake's diode part number is: 1N4744A
Mouser's replacement part number: 512-1N4744A_T26A
Mouser's price, 8 cents.

These and the other components can possibly be obtained through your
local parts dealer, prices will differ of course.

This doesn't mean I suggest performing the mod. It only means that
someone asked for the information and this is what I found, nothing more.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I just downloaded the TR4CW manual on bama's mirror site. There's a
> schematic of the RIT circuit in the beginning of the manual and a note
> about it from Drake.
>
> I still believe the safest route is the RV3 or RV4 remote VFO.
>
> Here's the link to the TR4CW's manual. It requires the DjVu reader
> which can be downloaded through a link on the same bama mirror website
> (see second link below).
>
> http://bama.edebris.com/manuals/drake/tr4cw/
>
> To download the free DjVu reader, use the following link and click on
> the DjVu icon.
>
> http://bama.edebris.com/manuals/drake
>
> 73
> Mike
> W5RKL
>

1025. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 19:15:54 UTC
From: Garey Barrell
Topic: 985 Message: 1025

Mike -

That schematic is of the DC switching circuit ONLY for the RIT. It is NOT retro-fittable (?) to a TR-4CW or any earlier version because of the
difference in the PTO for the RIT version. The PTOs "look" identical from the outside, but the internal circuitry connected to the side
terminal is entirely different.

The only published schematic for the PTO used in the TR-4CwRIT and TR-7 is in the RV-7 Remote PTO manual for the 7 Line. The RIT portion
consists of a couple of resistors, several caps and a varicap. I suppose similar circuitry could be added to an earlier PTO, but would
almost certainly require complete rework of linearity and temperature compensating caps. I have the schematic if anyone is interested.

A possible alternative to the RV-3/4 would be the FCC-1/2 kit from NORCAL. It's a DDS frequency generator and counter that could
replicate something similar to the RV-75. I believe the kits would be less than $100.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Looking at Drake's TR4CW RIT circuit in the TR4CW manual, I looked up
> the two main components of Drake's TR4CW RIT circuit. This is what I
> found through Mouser Electronics online catalog.
>
> Drake's chip part number is: MC14016BCP
>
> Mouser's replacement part number: 512-CD4016BCN
> Mouser's price for the 14 pin dip chip: 48 cents
>
> Drake's diode part number is: 1N4744A
> Mouser's replacement part number: 512-1N4744A_T26A
> Mouser's price, 8 cents.
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> These and the other components can possibly be obtained through your
> local parts dealer, prices will differ of course.
>
> This doesn't mean I suggest performing the mod. It only means that
> someone asked for the information and this is what I found, nothing more.
>
>

> 73
> Mike
> W5RKL
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>> I just downloaded the TR4CW manual on bama's mirror site. There's a
>> schematic of the RIT circuit in the beginning of the manual and a note
>> about it from Drake.
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>> I still believe the safest route is the RV3 or RV4 remote VFO.
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>> http://bama.edebris.com/manuals/drake/tr4cw/
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>> To download the free DjVu reader, use the following link and click on
>> the DjVu icon.
>>
>> http://bama.edebris.com/manuals/drake
>>
>> 73
>> Mike
>> W5RKL
>>

1026. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 19:29:09 UTC
From: w5rkl
Topic: 985 Message: 1026

Garey,

I'm not doubting you Garey. However, based solely on Drake's RIT schematic in the TR4CW manual page vi, on Drake letter head even (barely noticeable on the upper left cornet of the page) the caption on the schematic clearly states, "RIT Schematic Diagram". The caption can be quite misleading to say the least!

Oh well, hopefully folks will notice this so they won't make the same mistake.

Anyway, thanks for the correction.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> Mike -
>
> That schematic is of the DC switching circuit ONLY for the RIT. It is NOT retro-fittable (?) to a TR-4CW or any earlier version because of the
> difference in the PTO for the RIT version. The PTOs "look" identical from the outside, but the internal circuitry connected to the side
> terminal is entirely different.
>
> The only published schematic for the PTO used in the TR-4CwRIT and TR-7 is in the RV-7 Remote PTO manual for the 7 Line. The RIT portion
> consists of a couple of resistors, several caps and a varicap. I suppose similar circuitry could be added to an earlier PTO, but would
> almost certainly require complete rework of linearity and temperature compensating caps. I have the schematic if anyone is interested.
>
> A possible alternative to the RV-3/4 would be the FCC-1/2 kit from NORCAL. It's a DDS frequency generator and counter that could
> replicate something similar to the RV-75. I believe the kits would be less than $100.
>
>
> 73, Garey - K4OAH
> Glen Allen, VA

>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w5rkl wrote:
> > Looking at Drake's TR4CW RIT circuit in the TR4CW manual, I looked up
> > the two main components of Drake's TR4CW RIT circuit. This is what I
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> > Mouser's price, 8 cents.
> >
> > These and the other components can possibly be obtained through your
> > local parts dealer, prices will differ of course.
> >
> > This doesn't mean I suggest performing the mod. It only means that
> > someone asked for the information and this is what I found,
nothing more.
> >
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> >> I just downloaded the TR4CW manual on bama's mirror site. There's a
> >> schematic of the RIT circuit in the beginning of the manual and a
note
> >> about it from Drake.
> >>
> >> I still believe the safest route is the RV3 or RV4 remote VFO.
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> >>
> >> http://bama.edebris.com/manuals/drake/tr4cw/
> >>

> >> To download the free DjVu reader, use the following link and click on
> >> the DjVu icon.
> >>
> >> http://bama.edebris.com/manuals/drake
> >>
> >> 73
> >> Mike
> >> W5RKL
> >>
>

1027. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 19:42:04 UTC
From: Garey Barrell
Topic: 985 Message: 1027

Mike -

Yes, the Drake docs are somewhat misleading. They only added that one sheet addendum to the Cw manual, and didn't change the PTO schematic to reflect the internal changes.

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Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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[Non-text portions of this message have been removed]

1028. Re: [DrakeRadio] Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 21:38:26 UTC
From: Jose V. Gavila
Topic: 985 Message: 1028

Hello Mike,

>Is the 100Khz off frequency problem occurring on "ALL" bands or just
>one or two?

Yes, on all bands.

>If only one or two bands are off frequency, the problem is not the PTO
>but rather the individual affected band's heterodyne oscillator crystals.

Nope :-)!

>Even if the 100Khz off frequency problem occurs on ALL bands, it's
>quite possible the PTO is not the problem but rather the dial is out
>of alignment, especially if the 100Khz off frequency problem occurs at
>the same dial setting on ALL bands.

Yes, this is what Garey said some time ago, when I first posted about that problem. But I have been unable to find the time to get into that rig yet.

>Other possibilities are the individual band heterodyne oscillator
>crystals but I seriously doubt all four, 40 through 10 meters,
>heterodyne oscillator crystals are bad. 80 meters doesn't have or use
>a heterodyne oscillator crystal. Instead, the heterodyne oscillator
>operates as a straight through amplifier on 80 meters where the PTO
>signal and the 9 Mhz IF signal mix to produce the 80 meter operating
>frequency.
>
>The Drake PTO produces a variable frequency that is between 4.999Mhz
>and 5.500Mhz, regardless of the band selected.
>
>Just a few thoughts.

...which I appreciate a lot!

I will let you know how things end, once I get into my TR-4Cw RIT.

Regards,

JOSE

---

73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1029. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-19 22:00:37 UTC
From: w5rkl
Topic: 985 Message: 1029

Afternoon Garey,

I received the schematic from you via e-mail from the group. I'll print it out and look at it later on this evening.

As I said earlier, I don't doubt your word. I did some additional research on the Drake Museum and it appears back when Drake was still in the ham gear business, they would modify a TR4C, adding RIT, for $100. In addition, it appears the TR4C RIT mod must also have been an optional item one could have purchased from Drake back in the 70's to modify a TR4C. The other thing is, once a hole is drilled in the front panel the value of the radio just dropped considerably unless it was done by Drake many years ago.

Personally, I wouldn't modify a TR4C to add RIT. I would go the RV3/RV4 route which was indicated not only my initial response but also in the Drake Museum as well.

I have a Heathkit HW-101 that was given to me free (sat in a garage for 20 years never powered up). It had an RIT mod installed and it was worthless. The LMO was unstable, more than normal, and the RIT mod produced chirp on CW, whether it was turned on or not. I removed it and now the front panel has the two holes, one on each side of the meter, where the RIT controls were. I'm still working on it but it's a lot better than it was when I got it.

Have a good one Garey and I'll take a look at the RV7 schematic later on this evening.

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1030. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-20 08:41:19 UTC
From: g4jss@tiscali.co.uk
Topic: 985 Message: 1030

Hi all

Thanks for all the info and help. I think I'll hang around and hope an RV4 pops up somewhere but I suspect I have more chance of winning the National lottery!

Jose, I also think that your 100Khz problem is with misalignment of the tuning scales. I had exactly the same problem with the Tx-4 The nylon gearing was very stiff so I took it out to loosen the cogs on there shafts. When I put it back I had put the tuning dial 100Khz out (obviously the same on all bands) Very easy to put right. Stick your finger in and pull back the sprung shaft thus disengaging the gears and then rotate the tuning dial plate which ever way it needs to go. Make sure the cogs are properly re-engaged when you release the sprung shaft.

Vic

----Original Message----
From: w5rkl@...
Date: 19/08/2008 23:00
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: RIT for the TR4C

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2 for 1 on ID protection with Tiscali SpyGuard (offer open to all internet users. Offer ends 18th August 2008) - http://www.tiscali.co.uk/spyguard

---

[Non-text portions of this message have been removed]

1031. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-20 16:17:46 UTC
From: w5rkl
Topic: 985 Message: 1031

You're probably right Vic. The RV3 and RV4 VFO's are quite scarce these days and when you find one the prices can be outrageous!

Although I have a few rice boxes with built-in RIT and one with a remote VFO, I honestly don't use the remote VFO that much. Most of my air time is with the C Line. I like the flexibility of operating separates. Remote VFO's are nice but there's no comparison, in my opinion, to the twins. I do miss the TR4C and B Line I had, should never have sold them! Oh well, that's water under the bridge.

Garey, I reviewed the RV7 VFO schematic you sent. Although there are some basic similarities, the RV7 VFO is quite different. I haven't compared it with the TR4CW but I did compare it with the TR4C. The RV7 doesn't have the FSK terminal as the TR4C, and other T4<any> PTO's do. Anyway, it's quite obvious that modifying a TR4<any> transceiver to add RIT would be quite a challenge. More than likely the original TR4<any> PTO stability would be lost.

Anyway, good luck Vic. I'm sure you'll find an RV3 or RV4 soon. Don't know if you have ever been to the annual Friedrichshafen ham fest in southern Germany or not. It's Germany's version of the Dayton Hamvention. Huge ham fest! That's where I bought my second Drake R4C for less than $100 USD 8 years ago. I still have that R4C which I modified heavily with Sherwood and INRAD mods and upgrades and use it with the T4XC which I also picked up on eBay. Great receiver! I was DA1TNJ back then.

73's
Mike
W5RKL

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> > > Anyway, thanks for the correction.
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> > > 73
> > > Mike
> > > W5RKL
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> > >> That schematic is of the DC switching circuit ONLY for the RIT. It
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> > > identical from the outside, but the internal circuitry connected to
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> > >
> > >> terminal is entirely different.
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> > >> almost certainly require complete rework of linearity and
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> > > temperature compensating caps. I have the schematic if anyone is
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> > >
> > >> A possible alternative to the RV-3/4 would be the FCC-1/2 kit from
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> > > NORCAL. It's a DDS frequency generator and counter that could
> > >
> > >> replicate something similar to the RV-75. I believe the kits would
> > >>
> > > be less than $100.
> > >
> > >> 73, Garey - K4OAH
> > >> Glen Allen, VA

> > >>
> > >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > >> <www.k4oah.com>
> > >>
> > >>
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> > >>
> > >>> Looking at Drake's TR4CW RIT circuit in the TR4CW manual, I
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> > >>> Drake's chip part number is: MC14016BCP
> > >>>
> > >>> Mouser's replacement part number: 512-CD4016BCN
> > >>> Mouser's price for the 14 pin dip chip: 48 cents
> > >>>
> > >>> Drake's diode part number is: 1N4744A
> > >>> Mouser's replacement part number: 512-1N4744A_T26A
> > >>> Mouser's price, 8 cents.
> > >>>
> > >>> These and the other components can possibly be obtained
through your
> > >>> local parts dealer, prices will differ of course.
> > >>>
> > >>> This doesn't mean I suggest performing the mod. It only means that
> > >>> someone asked for the information and this is what I found,
> > >>>
> > > nothing more.
> > >
> > >>> 73
> > >>> Mike
> > >>> W5RKL
> > >>>
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> > >>>
> > >>>
> > >>> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >>>
> > >>>
> > >>>> I just downloaded the TR4CW manual on bama's mirror site.
There's a
> > >>>> schematic of the RIT circuit in the beginning of the manual and a
> > >>>>
> > > note
> > >
> > >>>> about it from Drake.
> > >>>>
> > >>>> I still believe the safest route is the RV3 or RV4 remote VFO.

> > >>>>
> > >>>> Here's the link to the TR4CW's manual. It requires the DjVu
reader
> > >>>> which can be downloaded through a link on the same bama mirror
> > >>>>
> > > website
> > >
> > >>>> (see second link below).
> > >>>>
> > >>>> http://bama.edebris.com/manuals/drake/tr4cw/
> > >>>>
> > >>>> To download the free DjVu reader, use the following link and
> click on
> > >>>> the DjVu icon.
> > >>>>
> > >>>> http://bama.edebris.com/manuals/drake
> > >>>>
> > >>>> 73
> > >>>> Mike
> > >>>> W5RKL
> > >>>>
> >
> >
> > [Non-text portions of this message have been removed]
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>
> 2 for 1 on ID protection with Tiscali SpyGuard (offer open to all
internet users. Offer ends 18th August 2008) -
http://www.tiscali.co.uk/spyguard
> ~~~~~~
>
> [Non-text portions of this message have been removed]
>

1032. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-20 16:30:33 UTC
From: Garey Barrell
Topic: 985 Message: 1032

Mike -

All of the TR-4 series PTOs are the same, aside from a few semiconductor device changes over the years, until you get to the "RIT" version. The "RIT" version was then used in the TR-7 line, including the RV-7 Remote PTO. The physical FSK terminal of the earlier version was changed to the RIT terminal.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Garey, I reviewed the RV7 VFO schematic you sent. Although there are
> some basic similarities, the RV7 VFO is quite different. I haven't
> compared it with the TR4CW but I did compare it with the TR4C. The RV7
> doesn't have the FSK terminal as the TR4C, and other T4<any> PTO's do.
> Anyway, it's quite obvious that modifying a TR4<any> transceiver to
> add RIT would be quite a challenge. More than likely the original
> TR4<any> PTO stability would be lost.
>

1033. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-20 23:02:21 UTC
From: Jim Gerke
Topic: 985 Message: 1033

That unmentionable auction site has several of the RV series units at any given time. Recently completed auctions range from around $100 (RV-3) to $155 (RV-4C). A super clean one might sometimes go for more. Not at all outrageous, in my opinion.

There is currently an RV-4C auction in progress with the bidding up to $355. Now THAT'S outrageous!

73, Jim K5JG

w5rkl wrote:
> You're probably right Vic. The RV3 and RV4 VFO's are quite scarce
> these days and when you find one the prices can be outrageous!
>

1034. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-20 23:08:19 UTC
From: hetman45
Topic: 985 Message: 1034

--- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@...> wrote:
>Jim, what is equally outrageous is that the shipping cost via Priority Mail is close to $77.

Joel
> That unmentionable auction site has several of the RV series units at
> any given time. Recently completed auctions range from around $100
> (RV-3) to $155 (RV-4C). A super clean one might sometimes go for more.
> Not at all outrageous, in my opinion.
>
> There is currently an RV-4C auction in progress with the bidding up to
> $355. Now THAT'S outrageous!
>
> 73, Jim K5JG
>
> w5rkl wrote:
> > You're probably right Vic. The RV3 and RV4 VFO's are quite scarce
> > these days and when you find one the prices can be outrageous!
> >
>

1035. Re: [DrakeRadio] Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-21 07:49:16 UTC
From: g4jss@tiscali.co.uk
Topic: 985 Message: 1035

Hi Mike

Thanks. Yep I also have the C line twins and I also prefer using separates. I like my TR7 and TR4C but the twins win.

Cheers

Vic

Sorry, no I've never been to the German fest and do most of buying what I want from Ebay or members ads in the Radcom monthly mag.

----Original Message----
From: w5rkl@...
Date: 20/08/2008 17:17
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: RIT for the TR4C

You're probably right Vic. The RV3 and RV4 VFO's are quite scarce these days and when you find one the prices can be outrageous!

Although I have a few rice boxes with built-in RIT and one with a remote VFO, I honestly don't use the remote VFO that much. Most of my air time is with the C Line. I like the flexibility of operating separates. Remote VFO's are nice but there's no comparison, in my opinion, to the twins. I do miss the TR4C and B Line I had, should never have sold them! Oh well, that's water under the bridge.

Garey, I reviewed the RV7 VFO schematic you sent. Although there are some basic similarities, the RV7 VFO is quite different. I haven't compared it with the TR4CW but I did compare it with the TR4C. The RV7 doesn't have the FSK terminal as the TR4C, and other T4<any> PTO's do. Anyway, it's quite obvious that modifying a TR4<any> transceiver to add RIT would be quite a challenge. More than likely the original TR4<any> PTO stability would be lost.

Anyway, good luck Vic. I'm sure you'll find an RV3 or RV4 soon. Don't know if you have ever been to the annual Friedrichshafen ham fest in southern Germany or not. It's Germany's version of the Dayton Hamvention. Huge ham fest! That's where I bought my second Drake R4C for less than $100 USD 8 years ago. I still have that R4C which I modified heavily with Sherwood and INRAD mods and upgrades and use it with the T4XC which I also picked up on eBay. Great receiver! I was DA1TNJ back then.

73's
Mike

W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi all
>
> Thanks for all the info and help. I think I'll hang around and hope
an RV4 pops up somewhere but I suspect I have more chance of winning
the National lottery!
>
> Jose, I also think that your 100Khz problem is with misalignment of
the tuning scales. I had exactly the same problem with the Tx-4 The
nylon gearing was very stiff so I took it out to loosen the cogs on
there shafts. When I put it back I had put the tuning dial 100Khz out
(obviously the same on all bands) Very easy to put right. Stick your
finger in and pull back the sprung shaft thus disengaging the gears
and then rotate the tuning dial plate which ever way it needs to go.
Make sure the cogs are properly re-engaged when you release the sprung
shaft.
>
>
>
> Vic
>
>
>
> ----Original Message----
> From: w5rkl@...
> Date: 19/08/2008 23:00
> To: <DrakeRadio@yahoogroups.com>
> Subj: [DrakeRadio] Re: RIT for the TR4C
>
>
>
>
>
>
>
>
> Afternoon Garey,
>
> I received the schematic from you via e-mail from the group. I'll
> print it out and look at it later on this evening.
>
> As I said earlier, I don't doubt your word. I did some additional
> research on the Drake Museum and it appears back when Drake was still
> in the ham gear business, they would modify a TR4C, adding RIT, for
> $100. In addition, it appears the TR4C RIT mod must also have been an
> optional item one could have purchased from Drake back in the 70's to
> modify a TR4C. The other thing is, once a hole is drilled in the front

> panel the value of the radio just dropped considerably unless it was
> done by Drake many years ago.
>
> Personally, I wouldn't modify a TR4C to add RIT. I would go the
> RV3/RV4 route which was indicated not only my initial response but
> also in the Drake Museum as well.
>
> I have a Heathkit HW-101 that was given to me free (sat in a garage
> for 20 years never powered up). It had an RIT mod installed and it was
> worthless. The LMO was unstable, more than normal, and the RIT mod
> produced chirp on CW, whether it was turned on or not. I removed it
> and now the front panel has the two holes, one on each side of the
> meter, where the RIT controls were. I'm still working on it but it's a
> lot better than it was when I got it.
>
> Have a good one Garey and I'll take a look at the RV7 schematic later
> on this evening.
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Mike -
> >
> > Yes, the Drake docs are somewhat misleading. They only added that one
> > sheet addendum to the Cw manual, and didn't change the PTO
schematic to
> > reflect the internal changes.
> >
> > You can confirm what I am saying by comparing the schematics for the
> > PTOs for the TR-4/C/Cw with the schematic for the TR-4Cw_RIT_ which
> ONLY
> > appears in the RV-75 manual. All previous PTO "side terminals" were
> > intended to shift the PTO by either 170 or 850 Hz by diode
switching an
> > external capacitor for RTTY transmission. When the "RIT" version was
> > designed they used the same terminal to access the internal PTO
> > varicap. By the time this change was made, most amateur RTTY was via
> > AFSK (SSB), plus I doubt there were many TR-4's used on RTTY anyway!
> :-)
> >
> > I've attached the schematic, I don't remember whether this list
allows
> > attachments or not.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >

> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
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> >
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> > >
> > > Oh well, hopefully folks will notice this so they won't make the
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> > >> The only published schematic for the PTO used in the TR-4CwRIT and
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> > > TR-7 is in the RV-7 Remote PTO manual for the 7 Line. The RIT
portion
> > >
> > >> consists of a couple of resistors, several caps and a varicap. I
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> > > suppose similar circuitry could be added to an earlier PTO, but

would
> > >
> > >> almost certainly require complete rework of linearity and
> > >>
> > > temperature compensating caps. I have the schematic if anyone is
> > > interested.
> > >
> > >> A possible alternative to the RV-3/4 would be the FCC-1/2 kit from
> > >>
> > > NORCAL. It's a DDS frequency generator and counter that could
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> > >> replicate something similar to the RV-75. I believe the kits would
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> > >> 73, Garey - K4OAH
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> > >>> Mouser's replacement part number: 512-CD4016BCN
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> > >>> These and the other components can possibly be obtained
through your
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> > >>> This doesn't mean I suggest performing the mod. It only means that
> > >>> someone asked for the information and this is what I found,
> > >>>
> > > nothing more.
> > >
> > >>> 73
> > >>> Mike

> > >>> W5RKL
> > >>>
> > >>>
> > >>>
> > >>>
> > >>> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >>>
> > >>>
> > >>> I just downloaded the TR4CW manual on bama's mirror site.
There's a
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> > > note
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> > >>> about it from Drake.
> > >>>
> > >>> I still believe the safest route is the RV3 or RV4 remote VFO.
> > >>>
> > >>> Here's the link to the TR4CW's manual. It requires the DjVu
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> > > website
> > >
> > >>> (see second link below).
> > >>>
> > >>> http://bama.edebris.com/manuals/drake/tr4cw/
> > >>>
> > >>> To download the free DjVu reader, use the following link and
> click on
> > >>> the DjVu icon.
> > >>>
> > >>> http://bama.edebris.com/manuals/drake
> > >>>
> > >>> 73
> > >>> Mike
> > >>> W5RKL
> > >>>
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> > [Non-text portions of this message have been removed]
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>
> 2 for 1 on ID protection with Tiscali SpyGuard (offer open to all
internet users. Offer ends 18th August 2008) -
http://www.tiscali.co.uk/spyguard
> _____
>
> [Non-text portions of this message have been removed]
>

2 for 1 on ID protection with Tiscali SpyGuard (offer open to all internet users. Offer ends 18th August 2008) - http://www.tiscali.co.uk/spyguard

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[Non-text portions of this message have been removed]

1036. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-21 13:20:30 UTC
From: w5rkl
Topic: 985 Message: 1036

Garey,

Yes, you're right.

I decided to pick up some solid state component replacements in the event something fails in either the T4XC or the R4C. Although the physical body looks the same, the pin orientation between Drake's original 2N5950 and Fairchild's 2N5950 are not the same. Drake's pin orientation is Gate Drain Source but Fairchild's is Gate Source Drain. This requires reorienting the Drain and Source pins. The PTO, first IF in the R4C, and the calibrator uses them.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> All of the TR-4 series PTOs are the same, aside from a few
semiconductor
> device changes over the years, until you get to the "RIT" version. The
> "RIT" version was then used in the TR-7 line, including the RV-7 Remote
> PTO. The physical FSK terminal of the earlier version was changed to
> the RIT terminal.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
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> > compared it with the TR4CW but I did compare it with the TR4C. The RV7
> > doesn't have the FSK terminal as the TR4C, and other T4<any> PTO's do.
> > Anyway, it's quite obvious that modifying a TR4<any> transceiver to
> > add RIT would be quite a challenge. More than likely the original
> > TR4<any> PTO stability would be lost.
> >
>

1037. Re: RIT for the TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-21 20:11:14 UTC
From: john baker
Topic: 985 Message: 1037

Hey Vic,
Keep an eye on e-bay. You'd be suprised how often they show up on
there. I'd say in the last 6 months or so I've seen 4 or 5 of them.

Good luck
73
jb
kg6biw

> --- In DrakeRadio@yahoogroups.com, "g4jss@" <g4jss@> wrote:
> >
> >
> > Hi all
> >
> > Thanks for all the info and help. I think I'll hang around and hope
> an RV4 pops up somewhere but I suspect I have more chance of winning
> the National lottery!

[snip]

1038. TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-22 16:19:26 UTC
From: K4GM-George
Topic: 985 Message: 1038

Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or is that essentially a different radio ?

K4GM-George

1039. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-22 17:29:19 UTC
From: w5rkl
Topic: 985 Message: 1039

Hello George,

The TR4 series had two individual sideband filters, one for LSB and one for USB. I can't say for sure whether the T4XC filter will work with the TR4CW or not. Maybe Garey will chime in with additional information on this. My initial thought it no.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, K4GM-George <k4gm@...> wrote:
>
> Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or
> is that essentially a different radio ?
>
> K4GM-George
>

1040. Re: [DrakeRadio] TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-22 21:06:08 UTC
From: Larry Taft
Topic: 985 Message: 1040

Different radios. C Twins use 5645 KHz IF while the TR4 series use
9000 KHz.

73, Larry K2LT
drakerepair.com 800-687-9161

K4GM-George wrote:
> Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or
> is that essentially a different radio ?
>
> K4GM-George
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1041. Re: [DrakeRadio] TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-22 21:57:08 UTC
From: K4GM-George
Topic: 985 Message: 1041

Thanks guys. I am very familiar with the twins but the xcvr is unfamiliar territory. Guess the 500hz built-in filter is as good as it gets for cw on the TR-4Cw.

Larry Taft wrote:
>
> Different radios. C Twins use 5645 KHz IF while the TR4 series use
> 9000 KHz.
>
> 73, Larry K2LT
> drakerepair.com 800-687-9161
>
> K4GM-George wrote:
> > Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or
> > is that essentially a different radio ?
> >
> > K4GM-George
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
>

[Non-text portions of this message have been removed]

1042. Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-23 03:35:54 UTC
From: jfelts13
Topic: 1042 Message: 1042

I just got a Drake 2A today and I'm not so sure about it. Ok it works, needs to be recapped. CW and SSB don't tune right sorta raspy sounding. I'm guessing new caps are in order.

Tuning is slower than the 7 year itch. hi I would hate to try and go from one end of the band to the other.

The front panel has a rectangluar hole above the 2.4/4.8kc switch. Lettering is pretty worn around the preselector. Does anyone rework them? Or does anyone have one in fair shape.

so I guess next step is re-cap and re-tube it. Always wanted a Drake 2B and the 2A is almost the same thing. This one is a early one too, ser nu 135.

Jerry - NR5A - South Dakota

1043. Re: TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-22 17:40:33 UTC
From: w5rkl
Topic: 985 Message: 1043

Hi George,

I just visited Sherwood's website and I couldn't locate any reference
to a Drake T4XC roofing filter mod. The only filter mod for a Drake
transceiver was the TR-7.

INRAD, however, has an upgrade filters for the R4C and the TR4,
nothing for the T4XC.

Where did you see the T4XC roofing filter mod on Sherwood's website?
Maybe I missed it.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, K4GM-George <k4gm@...> wrote:
>
> Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or
> is that essentially a different radio ?
>
> K4GM-George
>

1044. Re: [DrakeRadio] TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-24 12:25:13 UTC
From: Larry Taft
Topic: 985 Message: 1044

How about using a Softrock module at the IF freq to get the
Panadapter/DSP features of a modern receiver. I have added these
modules to the Twin receivers and they can be installed on the
transceivers too. The Softrock module is cheap and allows the use of
a computer and sound card to get into the Software Defined Receiver
(SDR) techniques.

The SDR software gives better noise reduction, filtering and detection
for all modes of operation. The panadapter view of the band shows
what is going on around the frequency of interest. Key clicks,
splatter and other interesting artifacts can be seen on the screen.
Real time audio and the panadapter can be fed to the internet too.

Look at the yahoo group "Softrock40" for all kinds of info.

<http://groups.yahoo.com/group/softrock40?v=1&t=search&ch=web&pub=groups&sec=group&slk=1
>

Beware the dreaded wordwrap on the URL. If the URL is a bust go to
Yahoo groups and search for Softrock40.

73, Larry K2LT
drakerepair.com 800-687-9161

K4GM-George wrote:
> Thanks guys. I am very familiar with the twins but the xcvr is
> unfamiliar territory. Guess the 500hz built-in filter is as good as it
> gets for cw on the TR-4Cw.
>
> Larry Taft wrote:
>> Different radios. C Twins use 5645 KHz IF while the TR4 series use
>> 9000 KHz.
>>
>> 73, Larry K2LT
>> drakerepair.com 800-687-9161
>>
>> K4GM-George wrote:
>>> Does the Sherwood roofing filter mod for the T-4XC work on the TR4Cw or
>>> is that essentially a different radio ?
>>>
>>> K4GM-George
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>

>>>
>>>
>>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1045. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 04:14:58 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1045

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1046. TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 10:25:50 UTC
From: Victor Waddington
Topic: 1046 Message: 1046

Hello again
My TR7 was working fine. Next day nothing - no pilot lights, sound or anything. Nothing had been touched since the previous day when it was working.
Opened it up and found a glass cartridge fuse had blown. The fuse is situated behind the front facia top right.
I do not have a circuit dia. of the TR7 only the block in the handbook.So can anyone please help with a little bit more info about that fuse e.g. which circuit is it in and a likely reason why it has blown.
Don't just want to stick another one in and hope it works without knowing a bit more about it.
Cheers

Vic

1047. Re: TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 14:27:14 UTC
From: w5rkl
Topic: 1046 Message: 1047

Hello Vic,

Here's a link to WB4HFN's TR7 website.

http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-12.htm

I was unable to find a schematic for the TR7 but hopefully this
website will help you.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hello again
> My TR7 was working fine. Next day nothing - no pilot lights, sound or
> anything. Nothing had been touched since the previous day when it was
> working.
> Opened it up and found a glass cartridge fuse had blown. The fuse is
> situated behind the front facia top right.
> I do not have a circuit dia. of the TR7 only the block in the
> handbook.So can anyone please help with a little bit more info about
> that fuse e.g. which circuit is it in and a likely reason why it has
> blown.
> Don't just want to stick another one in and hope it works without
> knowing a bit more about it.
> Cheers
>
> Vic
>

1048. Re: [DrakeRadio] TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 15:20:56 UTC
From: Garey Barrell
Topic: 1046 Message: 1048

Vic -

There is no "overall" schematic of the TR-7. I have attached a "block" diagram, which shows the "Parent Board" wiring that interconnects all the cards, controls and connectors. There are individual schematics for each card, and all are included in the Service Manual.

The fuse you found is for everything in the transceiver and power supply (control) except the PA stages. The fuse is a 5A fast blow. If it was mine, I'd try a new 5A fast blow fuse first. That one was 30 years old, and fuses DO fatigue and fail with age. If the new one blows immediately, then you have a problem. There is a polarity-protection diode to ground right after the fuse, which could be checked quickly. To tell you the truth, I've never gone looking for CR1, but it's an MR501 which is a standard 3A axial lead silicon diode. It MAY be on that terminal strip just above the fuse, but I don't have a TR-7 open to look at. Perhaps Gary Poland or someone else can point you to it. A simple ohmmeter check to ground would tell you whether it's shorted.

There are poor scans of the TR-7 Service Manual on the net, but the photos are useless. I got a decent CD version on E* for $10 from WB3CEZ, but there is no substitute for the real thing. A good original will run $40-50. There are two versions, the original is dated 1978, and there was a revised edition dated 1980 that is for s/n 6000 (approximately) and up, with the Version 2 2nd IF/ Audio board. The Version 2 manual has the original schematics as well.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello again
> My TR7 was working fine. Next day nothing - no pilot lights, sound or
> anything. Nothing had been touched since the previous day when it was
> working.
> Opened it up and found a glass cartridge fuse had blown. The fuse is
> situated behind the front facia top right.
> I do not have a circuit dia. of the TR7 only the block in the
> handbook.So can anyone please help with a little bit more info about
> that fuse e.g. which circuit is it in and a likely reason why it has
> blown.
> Don't just want to stick another one in and hope it works without
> knowing a bit more about it.

> Cheers
>
> Vic
>
>
>

[Non-text portions of this message have been removed]

1049. Re: [DrakeRadio] Re: TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 15:26:24 UTC
From: g4jss@tiscali.co.uk
Topic: 1046 Message: 1049

Hi Mike

Thanks for the info. Just checked the link and spot on. Didn't like that bit about changing the VFO analogue lamp. Mine is flickering a bit so probably needs re-seating but going to give that a raincheck.

Would still like to know probable causes for that fuse blowing before blindly sticking another one in - the rig is too good to see it disappear in a haze of blue smoke!!

Thanks again

Vic

----Original Message----
From: w5rkl@...
Date: 25/08/2008 15:27
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: TR-7

Hello Vic,

Here's a link to WB4HFN's TR7 website.

http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-12.htm

I was unable to find a schematic for the TR7 but hopefully this
website will help you.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hello again
> My TR7 was working fine. Next day nothing - no pilot lights, sound or
> anything. Nothing had been touched since the previous day when it was
> working.
> Opened it up and found a glass cartridge fuse had blown. The fuse is
> situated behind the front facia top right.
> I do not have a circuit dia. of the TR7 only the block in the
> handbook.So can anyone please help with a little bit more info about
> that fuse e.g. which circuit is it in and a likely reason why it has
> blown.
> Don't just want to stick another one in and hope it works without
> knowing a bit more about it.
> Cheers
>

> Vic
>

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1050. Re: [DrakeRadio] TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 15:40:44 UTC
From: g4jss@tiscali.co.uk
Topic: 1046 Message: 1050

Hi Garey

Having opened the TR7 for the first time I quickly realized that I hadn't a clue what I was looking at. So, having found that fuse was blown I quickly shut it up again!!

Will check that diode to earth first (when I find it) and then try another 5A quick blow.

Thanks again.

Vic

PS. I honestly don't know who Gary Poland is. Perhaps he may feel inclined to help me if he subscribes to this site.

----Original Message----
From: k4oah@...
Date: 25/08/2008 16:20
To: <DrakeRadio@yahoogroups.com>, "g4jss@..."<g4jss@...>
Subj: Re: [DrakeRadio] TR-7

Vic -

There is no "overall" schematic of the TR-7. I have attached a "block" diagram, which shows the "Parent Board" wiring that interconnects all the cards, controls and connectors. There are individual schematics for each card, and all are included in the Service Manual.

The fuse you found is for everything in the transceiver and power supply (control) except the PA stages. The fuse is a 5A fast blow. If it was mine, I'd try a new 5A fast blow fuse first. That one was 30 years old, and fuses DO fatigue and fail with age. If the new one blows immediately, then you have a problem. There is a polarity-protection diode to ground right after the fuse, which could be checked quickly. To tell you the truth, I've never gone looking for CR1, but it's an MR501 which is a standard 3A axial lead silicon diode. It MAY be on that terminal strip just above the fuse, but I don't have a TR-7 open to look at. Perhaps Gary Poland or someone else can point you to it. A simple ohmmeter check to ground would tell you whether it's shorted.

There are poor scans of the TR-7 Service Manual on the net, but the photos are useless. I got a decent CD version on E* for $10 from WB3CEZ, but there is no substitute for the real thing. A good original will run $40-50. There are two versions, the original is dated 1978, and there was a revised edition dated 1980 that is for s/n 6000 (approximately) and up, with the Version 2 2nd IF/ Audio board. The Version 2 manual has the original schematics as well.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello again
> My TR7 was working fine. Next day nothing - no pilot lights, sound or
> anything. Nothing had been touched since the previous day when it was
> working.
> Opened it up and found a glass cartridge fuse had blown. The fuse is
> situated behind the front facia top right.
> I do not have a circuit dia. of the TR7 only the block in the
> handbook.So can anyone please help with a little bit more info about
> that fuse e.g. which circuit is it in and a likely reason why it has
> blown.
> Don't just want to stick another one in and hope it works without
> knowing a bit more about it.
> Cheers
>
> Vic
>
>
>

[Non-text portions of this message have been removed]

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1051. Re: [DrakeRadio] TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 15:59:36 UTC
From: Garey Barrell
Topic: 1046 Message: 1051

Vic -

Gary is one of several excellent Drake repair guys who monitor this reflector. I'm sure any one of them knows where to find that diode. It's not on the Parent board itself, but is bound to be pretty close to the fuse. Doesn't do much good if it's somewhere else and connected via a wire in a bundle! :-)

It's in the +12VDC input line and only drives the receiver and low level transmitter stages, so would take a direct short to take it out. There aren't many individual components in there that could blow a 5A fuse "by themselves", without letting out a puff of smoke!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> Having opened the TR7 for the first time I quickly realized that I hadn't a clue what I was looking at. So, having found that fuse was blown I quickly shut it up again!!
>
> Will check that diode to earth first (when I find it) and then try another 5A quick blow.
>
> Thanks again.
>
> Vic
>
> PS. I honestly don't know who Gary Poland is. Perhaps he may feel inclined to help me if he subscribes to this site.
>
> ----Original Message----
> From: k4oah@...
> Date: 25/08/2008 16:20
> To: <DrakeRadio@yahoogroups.com>, "g4jss@..."<g4jss@...>
> Subj: Re: [DrakeRadio] TR-7
>
>
>
>
>
>
>

>
> Vic -
>
> There is no "overall" schematic of the TR-7. I have attached a "block"
> diagram, which shows the "Parent Board" wiring that interconnects all
> the cards, controls and connectors. There are individual schematics for
> each card, and all are included in the Service Manual.
>
> The fuse you found is for everything in the transceiver and power supply
> (control) except the PA stages. The fuse is a 5A fast blow. If it was
> mine, I'd try a new 5A fast blow fuse first. That one was 30 years old,
> and fuses DO fatigue and fail with age. If the new one blows
> immediately, then you have a problem. There is a polarity-protection
> diode to ground right after the fuse, which could be checked quickly.
> To tell you the truth, I've never gone looking for CR1, but it's an
> MR501 which is a standard 3A axial lead silicon diode. It MAY be on
> that terminal strip just above the fuse, but I don't have a TR-7 open to
> look at. Perhaps Gary Poland or someone else can point you to it. A
> simple ohmmeter check to ground would tell you whether it's shorted.
>
> There are poor scans of the TR-7 Service Manual on the net, but the
> photos are useless. I got a decent CD version on E* for $10 from
> WB3CEZ, but there is no substitute for the real thing. A good original
> will run $40-50. There are two versions, the original is dated 1978,
> and there was a revised edition dated 1980 that is for s/n 6000
> (approximately) and up, with the Version 2 2nd IF/ Audio board. The
> Version 2 manual has the original schematics as well.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Victor Waddington wrote:
>
>> Hello again
>> My TR7 was working fine. Next day nothing - no pilot lights, sound or
>> anything. Nothing had been touched since the previous day when it was
>> working.
>> Opened it up and found a glass cartridge fuse had blown. The fuse is
>> situated behind the front facia top right.
>> I do not have a circuit dia. of the TR7 only the block in the
>> handbook.So can anyone please help with a little bit more info about
>> that fuse e.g. which circuit is it in and a likely reason why it has
>> blown.
>> Don't just want to stick another one in and hope it works without
>> knowing a bit more about it.
>> Cheers
>>

>> Vic
>>
>

1052. Re: TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 18:42:07 UTC
From: Floyd Sense
Topic: 1046 Message: 1052

A bit of a coincidence - one of my TR7's stopped working the other day after being in use daily for about a year and the cause was that same fuse was open. I inserted a new one and all has been well for several days again. Radio Shack sells a similar 5A fuse in packs of 4. When mine failed, I had no 5A fuses on hand so inserted a 4A and ran the rest of the day with that and no problems. Interesting comment about old fuses - I haven't had one die from old age before, but I can't find any other explanation for mine blowing.

1053. Re: [DrakeRadio] Re: TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-25 19:29:03 UTC
From: LEE BAHR
Topic: 1046 Message: 1053

Fuses wear out. This happens over time to expansion and contraction from heating/cooling.

Lee, w0vt

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 25, 2008 1:42 PM
Subject: [DrakeRadio] Re: TR-7

A bit of a coincidence - one of my TR7's stopped working the other day after being in use daily for about a year and the cause was that same fuse was open. I inserted a new one and all has been well for several days again. Radio Shack sells a similar 5A fuse in packs of 4. When mine failed, I had no 5A fuses on hand so inserted a 4A and ran the rest of the day with that and no problems. Interesting comment about old fuses - I haven't had one die from old age before, but I can't find any other explanation for mine blowing.

[Non-text portions of this message have been removed]

1054. R4C PTO question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 13:39:04 UTC
From: Floyd Sense
Topic: 1054 Message: 1054

Don't have an R4C or any other R4 here at the moment or I'd answer this myself. Question is: With the receiver tuned to exactly 7.000 MHz, what is the frequency being output by the PTO?

1055. Re: [DrakeRadio] R4C PTO question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 13:52:12 UTC
From: Garey Barrell
Topic: 1054 Message: 1055

5.455 MHz

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> Don't have an R4C or any other R4 here at the moment or I'd answer this
> myself. Question is: With the receiver tuned to exactly 7.000 MHz,
> what is the frequency being output by the PTO?
>
>

1056. Re: [DrakeRadio] R4C PTO question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 13:57:34 UTC
From: Garey Barrell
Topic: 1054 Message: 1056

Floyd -

ASSUMING the 18.1 MHz Band Crystal is on exactly 18.100 MHz and the Carrier Oscillator is on
exactly 5.645 MHz! Which is why the knob skirt slips! :-)

18.100 - 5.455 MHz = 12.645 Premixer

12.645 - 5.645 MHz (Carrier Osc) = 7.000

5.455 MHz

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> Don't have an R4C or any other R4 here at the moment or I'd answer this
> myself. Question is: With the receiver tuned to exactly 7.000 MHz,
> what is the frequency being output by the PTO?
>
>

1057. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 16:02:46 UTC
From: Victor Waddington
Topic: 855 Message: 1057

Hi
The good news is that I threw caution to the winds and put another 5 amp slow blow in and it's back to life with no smoke anywhere. Will see how long that lasts!
I was running the rig from 2 PSU's as the one I had was only 22 amp. So I bought a 30 amp job and ran the high current (PA's) from that and the low current from the 22 amp job. Worked fine. But the 22 amp one has given up the ghost and when I opened it up I found that it had no fuse in but had been jumped with a bit of wire soldered across it.
The voltage off load was fine but on load it dropped to two or three volts. I am not really surprised that the TR7 5 amp blew when the PSU had a girder for a fuse!!
Thanks to all for your help.
Vic

1058. Re: R4C PTO question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 17:39:30 UTC
From: Floyd Sense
Topic: 1054 Message: 1058

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> Floyd -
>
> _ASSUMING_ the 18.1 MHz Band Crystal is on exactly 18.100 MHz and
the Carrier Oscillator is on
> exactly 5.645 MHz! Which is why the knob skirt slips! :-)
>
> 18.100 - 5.455 MHz = 12.645 Premixer
>
> 12.645 - 5.645 MHz (Carrier Osc) = 7.000
>
>
> 5.455 MHz
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

OK - that's what I needed - thanks.

1059. Re: R4C PTO question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-27 21:49:18 UTC
From: w5rkl
Topic: 1054 Message: 1059

The mixing process is outlined in the R4C manual. If you don't have
the manual, it can be downloaded at the following link:

http://www.dproducts.be/drake_museum/manuals.htm

73
Mike
W5RKL

--- In DrakeRadio@...m, "Floyd Sense" <floyd@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >
> > Floyd -
> >
> > _ASSUMING_ the 18.1 MHz Band Crystal is on exactly 18.100 MHz and
> the Carrier Oscillator is on
> > exactly 5.645 MHz! Which is why the knob skirt slips! :-)
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> >
> >
> > 5.455 MHz
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
>
> OK - that's what I needed - thanks.
>

1060. Sell: SP75 Speech Processor - not working

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-28 12:23:27 UTC
From: Floyd Sense
Topic: 1060 Message: 1060

This is a very nice looking SP-75, no scratches, plastic end pieces perfect. Only one problem - it doesn't work. The 459 KHz crystal won't oscillate (doesn't work in a test oscillator either) so we can be pretty sure it's dead. I've been unable to locate a replacement, so will sell this unit for $50 plus $8 for shipping. Email me if interested.

73, K8AC

1061. TR-4C NB Efficacy?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 03:19:13 UTC
From: Dale Parfitt
Topic: 1061 Message: 1061

I have had excellent experiences with the Drake NB's in my R-7 and R-4C.
I am picking up a TR-4CW/RIT tomorrow at Shelby (no NB)and am looking
for comments as to whether the TR-4C blanker is as effective as the
other Drakes?

It was interesting to read Wayne Burdick's comments on developing the
Elecraft K-3 in that he said the noise blanker they investigated was
the Drake!

Dale W4OP

1062. Re: [DrakeRadio] TR-4C NB Efficacy?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 13:22:19 UTC
From: Garey Barrell
Topic: 1061 Message: 1062

Dale -

All of the Drake noise blankers are essentially the same basic circuit according to Bill Frost, designed by a German engineer. There are variations in the active devices according to era, and some refinements such as the additional crystal filter section in the NB-7A. But essentially they all work the same way, i.e., turn the IF stage(s) off for the duration of a narrow pulse. They work best with very short pulses such as ignition noise, but as the pulses get longer the efficiency goes down.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dale Parfitt wrote:
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> I am picking up a TR-4CW/RIT tomorrow at Shelby (no NB)and am looking
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> other Drakes?
>
> It was interesting to read Wayne Burdick's comments on developing the
> Elecraft K-3 in that he said the noise blanker they investigated was
> the Drake!
>
> Dale W4OP
>
>

1063. T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 17:13:29 UTC
From: Jose V. Gavila
Topic: 1054 Message: 1063

Hello!

Well, it seems that lately all I get in my shop are Drake units with problems :-)!!!

This time is a T-4XC from a friend. It gives full power on TUNE (120W in 40m) but lots less in X-CW position... any hint?

Thanks!

JOSE (who has LOTS to learn about Drake units!)
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1064. Re: [DrakeRadio] T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 18:03:36 UTC
From: Garey Barrell
Topic: 1054 Message: 1064

Turn up the GAIN? May need to go to 2 o'clock for full output.

The GAIN (R105) control applies DC voltage to the Balanced Modulator to
unbalance it, and the Carrier Oscillator is shifted about 900 Hz (C177)
to put it within the passband of the LSB filter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hello!
>
> Well, it seems that lately all I get in my shop are Drake units with
> problems :-)!!!
>
> This time is a T-4XC from a friend. It gives full power on TUNE (120W in
> 40m) but lots less in X-CW position... any hint?
>
> Thanks!
>
> JOSE (who has LOTS to learn about Drake units!)
> ---
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
>
>

1065. Re: [DrakeRadio] T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 20:26:49 UTC
From: g4jss@tiscali.co.uk
Topic: 1054 Message: 1065

This seems to be a problem with the T-4XC. On tune mine gives full power about ten to but I have to turn the gain to about twenty past to bring it up to full power in the CW position.

Vic
----Original Message----
From: k4oah@...
Date: 30/08/2008 19:03
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC problem

Turn up the GAIN? May need to go to 2 o'clock for full output.

The GAIN (R105) control applies DC voltage to the Balanced Modulator to
unbalance it, and the Carrier Oscillator is shifted about 900 Hz (C177)
to put it within the passband of the LSB filter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hello!
>
> Well, it seems that lately all I get in my shop are Drake units with
> problems :-)!!!
>
> This time is a T-4XC from a friend. It gives full power on TUNE (120W in
> 40m) but lots less in X-CW position... any hint?
>
> Thanks!
>
> JOSE (who has LOTS to learn about Drake units!)
> --
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
>
>

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1066. Re: [DrakeRadio] TR-4C NB Efficacy?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-30 21:09:32 UTC
From: DALE PARFITT
Topic: 1061 Message: 1066

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, August 30, 2008 9:22 AM
Subject: Re: [DrakeRadio] TR-4C NB Efficacy?

Dale -

All of the Drake noise blankers are essentially the same basic circuit according to Bill Frost, designed by a German engineer. There are variations in the active devices according to era, and some refinements such as the additional crystal filter section in the NB-7A. But essentially they all work the same way, i.e., turn the IF stage(s) off for the duration of a narrow pulse. They work best with very short pulses such as ignition noise, but as the pulses get longer the efficiency goes down.

73, Garey - K4OAH
Glen Allen, VA
Thank you Gary,

I just returned from Shelby- first year at their new location- very nice.
The TR-4CW/RIT looks pretty much new. Hard to believe how stable the VFO is from the get go.
The AC-4 has the new AC-4R upgrade board installed. So now I'll begin a search for the NB.

Dale W4OP

1067. Re: [DrakeRadio] T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-31 00:42:07 UTC
From: Garey Barrell
Topic: 1054 Message: 1067

Vic -

Not a "problem", just the result of two different controls on one shaft
that operate in two entirely different ways. One is an AF GAIN control
for the Mic Amp, and the other is a DC Voltage control for biasing diodes.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> This seems to be a problem with the T-4XC. On tune mine gives full power about ten to but I have to turn the gain to about twenty past to bring it up to full power in the CW position.
>
>
>
> Vic
> ----Original Message----
> From: k4oah@...
> Date: 30/08/2008 19:03
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC problem
>
>
>
>
>
>
>
>
> Turn up the GAIN? May need to go to 2 o'clock for full output.
>
> The GAIN (R105) control applies DC voltage to the Balanced Modulator to
> unbalance it, and the Carrier Oscillator is shifted about 900 Hz (C177)
> to put it within the passband of the LSB filter.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Jose V. Gavila wrote:
>

>> Hello!
>>
>> Well, it seems that lately all I get in my shop are Drake units with
>> problems :-)!!!
>>
>> This time is a T-4XC from a friend. It gives full power on TUNE (120W in
>> 40m) but lots less in X-CW position... any hint?
>>
>> Thanks!
>>
>> JOSE (who has LOTS to learn about Drake units!)
>> --
>> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
>>
>

1068. Re: T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-31 02:21:43 UTC
From: w5rkl
Topic: 1054 Message: 1068

Another possibility is the T4XC is out of alignment and the final may need to be neutralized. I experience a similar output problem with my T4XC. However, after performing the alignment listed in the manual, the transmitter's output and tuning greatly improved. I now obtain full output at 2 o'clock with the plate at full dip and the load control set as stated in the manual.

If the AC4 can't provide the stable voltages and current the output will be affected.

Just a thought.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Vic -
>
> Not a "problem", just the result of two different controls on one shaft
> that operate in two entirely different ways. One is an AF GAIN control
> for the Mic Amp, and the other is a DC Voltage control for biasing diodes.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> g4jss@... wrote:
> > This seems to be a problem with the T-4XC. On tune mine gives full power about ten to but I have to turn the gain to about twenty past to bring it up to full power in the CW position.
> >
> >
> >
> > Vic
> > ----Original Message----
> > From: k4oah@...
> > Date: 30/08/2008 19:03
> > To: <DrakeRadio@yahoogroups.com>
> > Subj: Re: [DrakeRadio] T-4XC problem

> >
> >
> >
> >
> >
> >
> >
> > Turn up the GAIN? May need to go to 2 o'clock for full output.
> >
> > The GAIN (R105) control applies DC voltage to the Balanced
Modulator to
> > unbalance it, and the Carrier Oscillator is shifted about 900 Hz
(C177)
> > to put it within the passband of the LSB filter.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> > Jose V. Gavila wrote:
> >
> >> Hello!
> >>
> >> Well, it seems that lately all I get in my shop are Drake units with
> >> problems :-)!!!
> >>
> >> This time is a T-4XC from a friend. It gives full power on TUNE
(120W in
> >> 40m) but lots less in X-CW position... any hint?
> >>
> >> Thanks!
> >>
> >> JOSE (who has LOTS to learn about Drake units!)
> >> --
> >> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> >>
> >
>

1069. Re: [DrakeRadio] Re: T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-08-31 13:29:40 UTC
From: Garey Barrell
Topic: 1054 Message: 1069

Good point Mike.

The ALC is active in the TUNE mode, and is the reason for the "topping out" of the GAIN control at about 10 o'clock. There is no ALC in CW, and so the GAIN control and output power are both capable of going higher. So if the stage gain(s) are down because of tube decline or misalignment, it's easier to spot in CW because of the masking effect of the ALC.

However, it is normal for the GAIN control to be advanced further in CW than in TUNE or SSB in a properly working transmitter.

Obviously, power supply problems can cause all sorts of transmitter anomalies!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Another possibility is the T4XC is out of alignment and the final may
> need to be neutralized. I experience a similar output problem with my
> T4XC. However, after performing the alignment listed in the manual,
> the transmitter's output and tuning greatly improved. I now obtain
> full output at 2 o'clock with the plate at full dip and the load
> control set as stated in the manual.
>
> If the AC4 can't provide the stable voltages and current the output
> will be affected.
>
> Just a thought.
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Vic -
>>
>> Not a "problem", just the result of two different controls on one shaft
>> that operate in two entirely different ways. One is an AF GAIN control
>> for the Mic Amp, and the other is a DC Voltage control for biasing

>>
> diodes.
>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> g4jss@... wrote:
>>
>>> This seems to be a problem with the T-4XC. On tune mine gives full
>>>
> power about ten to but I have to turn the gain to about twenty past to
> bring it up to full power in the CW position.
>
>>>
>>>
>>> Vic
>>> ----Original Message----
>>> From: k4oah@...
>>> Date: 30/08/2008 19:03
>>> To: <DrakeRadio@yahoogroups.com>
>>> Subj: Re: [DrakeRadio] T-4XC problem
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> Turn up the GAIN? May need to go to 2 o'clock for full output.
>>>
>>> The GAIN (R105) control applies DC voltage to the Balanced
>>>
> Modulator to
>
>>> unbalance it, and the Carrier Oscillator is shifted about 900 Hz
>>>
> (C177)
>
>>> to put it within the passband of the LSB filter.
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>> <www.k4oah.com>

>>>
>>> Jose V. Gavila wrote:
>>>
>>>
>>>> Hello!
>>>>
>>>> Well, it seems that lately all I get in my shop are Drake units with
>>>> problems :-)!!!
>>>>
>>>> This time is a T-4XC from a friend. It gives full power on TUNE
>>>>
> (120W in
>
>>>> 40m) but lots less in X-CW position... any hint?
>>>>
>>>> Thanks!
>>>>
>>>> JOSE (who has LOTS to learn about Drake units!)
>>>> --
>>>> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
>>>>

1070. R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 08:08:16 UTC
From: Victor Waddington
Topic: 1070 Message: 1070

Hi
I'm following a 4B on Ebay. The owner doesn't know if it will work on 240AC as opposed to the U.S. 115v. So, were all Drakes made for dual voltage? I seem to think that they were and it could be switched by adding/removing a jumper on the tranni primary.
Cheers
Vic

1071. Re: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 11:44:37 UTC
From: w5rkl
Topic: 1070 Message: 1071

Hello Vic,

Yes, the R4B has primary transformer windings for 120/220VAC. The
R4B's manual is available at one of the following websites.

http://www.dproducts.be/drake_museum/r-4b_manual.htm

or at the Bama mirror site at:

http://bama.edebris.com/manuals/drake/r4b/

The manual at the Bama website requires the DjVu reader which is
available at the same website link just scroll down and click on the
DjVu icon to download the DjVu free reader.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hi
> I'm following a 4B on Ebay. The owner doesn't know if it will work on
> 240AC as opposed to the U.S. 115v. So, were all Drakes made for dual
> voltage? I seem to think that they were and it could be switched by
> adding/removing a jumper on the tranni primary.
> Cheers
> Vic
>

1072. Re: [DrakeRadio] Re: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 13:04:51 UTC
From: g4jss@tiscali.co.uk
Topic: 1070 Message: 1072

Thanks Mike

Never seen a R-4B so I thought it better to ask first. I do have the R-4C which has a switch on the rear panel to select voltage supply. Not sure if the 4B has the same facility.

Cheers

Vic
----Original Message----
From: w5rkl@...
Date: 02/09/2008 12:44
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: R-4B

Hello Vic,

Yes, the R4B has primary transformer windings for 120/220VAC. The
R4B's manual is available at one of the following websites.

http://www.dproducts.be/drake_museum/r-4b_manual.htm

or at the Bama mirror site at:

http://bama.edebris.com/manuals/drake/r4b/

The manual at the Bama website requires the DjVu reader which is
available at the same website link just scroll down and click on the
DjVu icon to download the DjVu free reader.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hi
> I'm following a 4B on Ebay. The owner doesn't know if it will work on
> 240AC as opposed to the U.S. 115v. So, were all Drakes made for dual
> voltage? I seem to think that they were and it could be switched by
> adding/removing a jumper on the tranni primary.
> Cheers
> Vic
>

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1073. Re: [DrakeRadio] Re: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 16:41:37 UTC
From: Garey Barrell
Topic: 1070 Message: 1073

Vic -

ALL the R-4/A/B/C receivers have split primaries. Only the C Line has
the external switch.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Thanks Mike
>
> Never seen a R-4B so I thought it better to ask first. I do have the R-4C which has a switch on the rear panel to select voltage supply. Not sure if the 4B has the same facility.
>
> Cheers
>
>
>
> Vic
>
>

1074. Re:R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 17:36:34 UTC
From: Robert Clinton
Topic: 1070 Message: 1074

Vic,

I have an R-4C that has worked off both 115 and 230V. According to the manual for the R-4B, it is capable of working off both voltages as well. Some earlier Drake receivers were only designed for 115V - I once had a 2A that only worked directly off 115V. You should be OK with the R-4B - good luck in the auction.

Bob

W0BUX/G0BUX (thus the experience with both voltages)

1075. TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-02 17:46:08 UTC
From: DALE PARFITT
Topic: 1075 Message: 1075

I have my new rig and absolutely love it. The only oddity I have noticed is the inability to select LSB on 20M- not sure why I would want to, but I see no reason or mention why I should not be able to.
A quick (very quick) look at the schematic would seem to point to S1A. All other bands allow selection of U or L.

Trying not to reinvent the wheel,

Dale W4OP

[Non-text portions of this message have been removed]

1076. Re: TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-03 13:54:57 UTC
From: w5rkl
Topic: 1075 Message: 1076

Hello Dale,

Yes, S1A(F) and S1A(R), both part of the band switch, controls the sideband indicator lamps. Since the lamp issue only occurs on 20 meters, I would look closely at both switch wafers. One or both may just be dirty on 20 meters.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "DALE PARFITT" <parinc1@...> wrote:
>
> I have my new rig and absolutely love it. The only oddity I have noticed is the inability to select LSB on 20M- not sure why I would want to, but I see no reason or mention why I should not be able to.
> A quick (very quick) look at the schematic would seem to point to S1A. All other bands allow selection of U or L.
>
> Trying not to reinvent the wheel,
>
> Dale W4OP
>
> [Non-text portions of this message have been removed]
>

1077. Re: [DrakeRadio] Re: TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-03 15:55:16 UTC
From: DALE PARFITT
Topic: 1075 Message: 1077

----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, September 03, 2008 9:54 AM
Subject: [DrakeRadio] Re: TR-4CW/RIT

Hi MIke,
Thank you for the reply. I did find that by slightly rocking the bandswitch, the LSB filter and light are enabled. So, before using the rig anymore, I'll inspect, lubricate and DeOxid all of the switches.

73,
Dale W4OP

[Non-text portions of this message have been removed]

1078. Re: TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-03 17:09:49 UTC
From: w5rkl
Topic: 1075 Message: 1078

Hello Dale,

It sure sounds like a dirty/corroded band switch contact to me.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "DALE PARFITT" <parinc1@...> wrote:
>
>
> ----- Original Message -----
> From: w5rkl
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, September 03, 2008 9:54 AM
> Subject: [DrakeRadio] Re: TR-4CW/RIT
>
>
> Hi MIke,
> Thank you for the reply. I did find that by slightly rocking the
bandswitch, the LSB filter and light are enabled. So, before using the
rig anymore, I'll inspect, lubricate and DeOxid all of the switches.
>
> 73,
> Dale W4OP
>
> [Non-text portions of this message have been removed]
>

1079. Test equipment - Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-04 01:01:26 UTC
From: py2xb
Topic: 1079 Message: 1079

Hello
I am looking for these test equipment to upgrade my bench. In needed
order:

- 100Mhz class oscilloscope (or better) dual trace with probes
- Function generator
- RF voltimeter
- Signal generator 100Khz-512/1Ghz class , -125/-130 dbm level class

Need them to be in good working and cosmetics condition.

Thanks Fred PY2XB

1080. Re: [DrakeRadio] Test equipment - Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-04 03:34:20 UTC
From: Sprint
Topic: 1079 Message: 1080

Just happen to know where a whole bunch of test equipment is for sale...reasonable!

Email Stephanie at: ptoiyabe@...

She is in Reno, Nevada, USA.

This test equipment she has is from her late husband's estate.

Joe Wolfe
WA6RKN

----- Original Message -----
From: "py2xb" <py2xb@...>

Subject: [DrakeRadio] Test equipment - Wanted

> Hello
> I am looking for these test equipment to upgrade my bench. In needed
> order:
>
> - 100Mhz class oscilloscope (or better) dual trace with probes
> - Function generator
> - RF voltimeter
> - Signal generator 100Khz-512/1Ghz class , -125/-130 dbm level class

1081. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-07 14:43:01 UTC
From: Garey Barrell
Topic: 993 Message: 1081

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

1082. Drake R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-07 18:43:42 UTC
From: daver_06441
Topic: 1082 Message: 1082

Looking for some info on where I might obtain parts (tubes, etc.) for a Drake R4B I'm trying to restore so I can use it as an external receiver with a TR4 xcvr. Where can I obtain the phono jack strip on rear panel, the ceramic inside the connectors are all broken. Also what can I use to clean switch contacts? I've heard that the cleaner from Radio Shack should not be used, so what is out there that is good. I also have a C Line that could use the switches cleaned also. Any info from anybody would be greatly appreciated.

73

Dave KW1V

1083. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 00:48:35 UTC
From: Jim Gerke
Topic: 1082 Message: 1083

I found this switch cleaning tip on the web at

http://www.wb4hfn.com/DRAKE/DrakeArticles/CleaningSwitches/CleaningSwitches.htm

and find it works much better than DeoxIt.

I've used it on 2 or 3 radios and am very satisfied with the results.

Another thing that will really help bandswitch operation is to carefully
remove its shaft and detent mechanism from the radio. Clean the dried
out grease from the detent mechanism and ball bearing, re-lube it with
a light application of automotive lithium-based wheel bearing grease,
then re-install in the radio. Your bandswitch will again operate as
smoothly and positively as factory-new.

Have fun!

73, Jim K5JG

daver_06441 wrote:
> Looking for some info on where I might obtain parts (tubes, etc.) for
> a Drake R4B I'm trying to restore so I can use it as an external
> receiver with a TR4 xcvr. Where can I obtain the phono jack strip on
> rear panel, the ceramic inside the connectors are all broken. Also
> what can I use to clean switch contacts? I've heard that the cleaner
> from Radio Shack should not be used, so what is out there that is
> good. I also have a C Line that could use the switches cleaned also.
> Any info from anybody would be greatly appreciated.
>
> 73
>
> Dave KW1V
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1084. RE: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 01:11:32 UTC
From: Jerry Kimento
Topic: 1082 Message: 1084

I agree

Tried it on my old drakes and they look new

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Gerke
Sent: Sunday, September 07, 2008 7:49 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake R4B - switch cleaning

I found this switch cleaning tip on the web at

http://www.wb4hfn.
<http://www.wb4hfn.com/DRAKE/DrakeArticles/CleaningSwitches/CleaningSwitches.htm> com/DRAKE/DrakeArticles/CleaningSwitches/CleaningSwitches.htm

and find it works much better than DeoxIt.

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Have fun!

73, Jim K5JG

daver_06441 wrote:
> Looking for some info on where I might obtain parts (tubes, etc.) for
> a Drake R4B I'm trying to restore so I can use it as an external
> receiver with a TR4 xcvr. Where can I obtain the phono jack strip on
> rear panel, the ceramic inside the connectors are all broken. Also
> what can I use to clean switch contacts? I've heard that the cleaner
> from Radio Shack should not be used, so what is out there that is
> good. I also have a C Line that could use the switches cleaned also.
> Any info from anybody would be greatly appreciated.
>
> 73

>
> Dave KW1V
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

[Non-text portions of this message have been removed]

1085. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 01:29:13 UTC
From: DALE PARFITT
Topic: 1082 Message: 1085

----- Original Message -----
From: Jerry Kimento
To: DrakeRadio@yahoogroups.com
Sent: Sunday, September 07, 2008 9:11 PM
Subject: RE: [DrakeRadio] Drake R4B - switch cleaning

This is very timely for my new (to me) TR-4CW/RIT. I would have just gone the DeoxiT route.

Tnx & 73,
Dale W4OP

[Non-text portions of this message have been removed]

1086. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 02:08:38 UTC
From: Larry Taft
Topic: 1082 Message: 1086

Jim,

I have recently been asked to repair TR-4s that had the band wafer switches cleaned using Mark's method with Tarn-X.

The rotors of the switches have arced to the shaft and to the front and back sections and ruined the switches.

Looking at the composition formula of Tarn-X shows it contains sulfamic acid and thiourea which are mild acids. It looks like the Tarn-X was not thoroughly removed good enough and left behind a conductive path that arced when power was applied. The sandwich construction of the switch parts provides many crevices and blind corners for the acids to get trapped and the rinsing process can't remove them.

I see no reason to try to remove the "tarnish" from the switches as the cleaning process is harmful to the switch. Just the application of a tiny amount of contact cleaner such as DeOxit or Stabilant 22 to the actual contacts at the point where they touch is the best way to ensure proper operation of the switches.

73, Larry K2LT

Lawrence R. Taft PE
T and T Measurements
drakerepair.com 800-687-9161

Jim Gerke wrote:
> I found this switch cleaning tip on the web at
>
> http://www.wb4hfn.com/DRAKE/DrakeArticles/CleaningSwitches/CleaningSwitches.htm
>
> and find it works much better than DeoxIt.
>
> I've used it on 2 or 3 radios and am very satisfied with the results.
>
> Another thing that will really help bandswitch operation is to carefully
> remove its shaft and detent mechanism from the radio. Clean the dried
> out grease from the detent mechanism and ball bearing, re-lube it with
> a light application of automotive lithium-based wheel bearing grease,
> then re-install in the radio. Your bandswitch will again operate as
> smoothly and positively as factory-new.
>
> Have fun!
>
> 73, Jim K5JG

>
> daver_06441 wrote:
>> Looking for some info on where I might obtain parts (tubes, etc.) for
>> a Drake R4B I'm trying to restore so I can use it as an external
>> receiver with a TR4 xcvr. Where can I obtain the phono jack strip on
>> rear panel, the ceramic inside the connectors are all broken. Also
>> what can I use to clean switch contacts? I've heard that the cleaner
>> from Radio Shack should not be used, so what is out there that is
>> good. I also have a C Line that could use the switches cleaned also.
>> Any info from anybody would be greatly appreciated.
>>
>> 73
>>
>> Dave KW1V
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1087. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 02:22:03 UTC
From: Garey Barrell
Topic: 1082 Message: 1087

Dale -

Unless your switches are extremely corroded (white and/or green)
corrosion, stick with DeoxIT. Keep in mind that the purpose of cleaning
the switches is to make them operate reliably. Unless you are looking
to enter your transceiver in a concours exhibit for appearance only!!

The black sulphide coating which forms on unprotected silver surfaces is
very soft, and easily displaced by the fixed contact tension. If you
look closely at your switch wipers, you'll see a bright silver line down
the center of the wiper where the actual contact is made.

ANY silver "cleaner" or "polish" works by removing the silver sulphide
mechanically, in other words by removing some of the silver plating, so
any time you "polish" silver, you are removing some of the silver. Once
a layer of silver sulphide forms, however, the action essentially stops.

While the silver plating on switch contacts is very thin, you'd probably
have to "clean" them several times to actually remove enough silver to
expose the brass underneath. The real danger is the risk of damaging
the fixed contacts while poking around in the very tight quarters around
those switch wafers with tools of any kind. All it takes is to catch
the corner of a probe or even a few strands of cotton from a Q-Tip and
"spring" one of those contacts where it no longer applies pressure to
the wiper. Then you have a REAL problem.

A few drops of DexoIT on the fixed contacts to protect the exposed
silver surfaces is MUCH safer and just as effective _electrically_.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> ----- Original Message -----
> From: Jerry Kimento
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, September 07, 2008 9:11 PM
> Subject: RE: [DrakeRadio] Drake R4B - switch cleaning
>
>
> This is very timely for my new (to me) TR-4CW/RIT. I would have just gone the DeoxiT
route.
>
> Tnx & 73,

> Dale W4OP
>
>

1088. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 02:45:57 UTC
From: DALE PARFITT
Topic: 1082 Message: 1088

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, September 07, 2008 10:22 PM
Subject: Re: [DrakeRadio] Drake R4B - switch cleaning

Thanks for the input Garey. I thoght you might have some feedback.
I was a bit warey of the Tarnex- having used it on metals (not switches in the past).
The DeoxiT has always done a nice job- so I'll start/stop with it and cue tip applicators.
Having seen the detent tab on a Collins mode switch actually wear away from neglect, I'll inspect/grease those areas also.

73,
Dale W4OP

[Non-text portions of this message have been removed]

1089. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 04:53:45 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1089

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1090. AC4 or AC4R

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 11:32:41 UTC
From: daver_06441
Topic: 1090 Message: 1090

Anyone out there have a spare AC4/AC4R they are not using? My AC3 for my TR4 smoked yesterday. Probably not worth fixing so now I"m looking for a replacement. Tnx es 73

Dave KW1V

1091. Re: [DrakeRadio] AC4 or AC4R

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 12:36:11 UTC
From: K4GM-George
Topic: 1090 Message: 1091

I've got a working AC-4 for $125 plus shipping.

K4GM- George

daver_06441 wrote:
>
> Anyone out there have a spare AC4/AC4R they are not using? My AC3 for
> my TR4 smoked yesterday. Probably not worth fixing so now I"m looking
> for a replacement. Tnx es 73
>
> Dave KW1V
>
>

1092. Re: AC4 or AC4R

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 13:03:29 UTC
From: w5rkl
Topic: 1090 Message: 1092

Hello Dave,

What smoked in your AC3 power supply? Unless the power transformer shorted internally due to an old dried out shorted filter capacitor etc.,, the supply can be fixed quite inexpensively.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "daver_06441" <kw1v@...> wrote:
>
> Anyone out there have a spare AC4/AC4R they are not using? My AC3 for
> my TR4 smoked yesterday. Probably not worth fixing so now I"m looking
> for a replacement. Tnx es 73
>
> Dave KW1V
>

1093. Re: [DrakeRadio] Drake R4B - switch cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 14:03:49 UTC
From: Garey Barrell
Topic: 1082 Message: 1093

Dale -

Yes, absolutely lubricate the detent mechanism of the rotary switches. Some use machine oil, but I prefer to work in a small amount of Lubriplate or other light, non-hardening grease. Also, it's a good idea to inspect all the switch assembly hardware. It does loosen over time, allowing the wafers to rotate off axis. You don't want to over tighten, it is small hardware and you can crack the phenolic wafers if you get too aggressive.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, September 07, 2008 10:22 PM
> Subject: Re: [DrakeRadio] Drake R4B - switch cleaning
>
>
> Thanks for the input Garey. I thoght you might have some feedback.
> I was a bit warey of the Tarnex- having used it on metals (not switches in the past).
> The DeoxiT has always done a nice job- so I'll start/stop with it and cue tip applicators.
> Having seen the detent tab on a Collins mode switch actually wear away from neglect, I'll inspect/grease those areas also.
>
> 73,
> Dale W4OP
>
>

1094. Re: [DrakeRadio] AC4 or AC4R

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 14:07:27 UTC
From: Garey Barrell
Topic: 1090 Message: 1094

Dave -

As long as the transformer is ok the AC-4R can be adapted to the AC-3
just fine.

<http://www.wb4hfn.com/DRAKE/DrakeArticles/AC4-Upgrade/AC4_Upgrade.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

daver_06441 wrote:
> Anyone out there have a spare AC4/AC4R they are not using? My AC3 for
> my TR4 smoked yesterday. Probably not worth fixing so now I"m looking
> for a replacement. Tnx es 73
>
> Dave KW1V
>
>

1095. Waay OT Favor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 15:51:38 UTC
From: Garey Barrell
Topic: 1095 Message: 1095

None of my kids or grandkids seem to be Ham Radio material. My youngest Grandson in Chicago, however, seems to have the "right stuff" to become interested. When we go to the R/C field for the air show, he watches the planes for a few minutes, then wants to go to the tents and shelters where the guys are taking their planes apart to repair, modify or change the batteries! Fortunately they are tolerant and willing to tell him what they are doing and why, which he just eats up........

Now for the favor.. His pre-school (he's four) class has a project to collect postcards from as many states as possible in the next month. I have filled out and sent a QSL card, which might spark some interest or questions from the group. It occurred to me that several QSL cards from various states might serve to show the class the spread of Ham Radio.

So... If you have a QSL, or even a postcard with your call written on it, Ryan and I would appreciate your sending it to

Ryan Bledsoe
c/o Kids Connection, Inc.
40W304 LaFox Rd.
St. Charles, IL 60175

Thanks for your consideration!

--
73, Garey - K4OAH
Glen Allen, VA

1096. Re: Waay OT Favor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 17:07:49 UTC
From: Richard Zolla
Topic: 1095 Message: 1096

It's in the mail!!!!

Rick N6NKN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> None of my kids or grandkids seem to be Ham Radio material. My
youngest
> Grandson in Chicago, however, seems to have the "right stuff" to
become
> interested.
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>

1097. Re: Waay OT Favor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-08 17:22:12 UTC
From: toptyp19
Topic: 1095 Message: 1097

Mine is, too!

--- In DrakeRadio@yahoogroups.com, "Richard Zolla" <N6NKN@...> wrote:
>
> It's in the mail!!!!
>
>
> Rick N6NKN
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >
> > None of my kids or grandkids seem to be Ham Radio material. My
> youngest
> > Grandson in Chicago, however, seems to have the "right stuff" to
> become
> > interested.
> >
> > --
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
>

1098. WTB: 7 pin and 9 pin bayonette tube shields

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 00:11:05 UTC
From: Dale Parfitt
Topic: 1098 Message: 1098

For my TR-4CW/RIT. I was certain I had some spares here-but nada.
If anyone has one of each I will gladly purchase. Otherwise it's off to
the internet.

Tnx,

Dale W4OP

1099. Re: Waay OT Favor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 01:41:50 UTC
From: Mike
Topic: 1095 Message: 1099

Since I teach school anyway, I hope he doesn't mind one from
Mississippi.
Mike, WD5CCW
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> None of my kids or grandkids seem to be Ham Radio material. My
youngest
> Grandson in Chicago, however, seems to have the "right stuff" to
become
> interested. When we go to the R/C field for the air show, he
watches
> the planes for a few minutes, then wants to go to the tents and
shelters
> where the guys are taking their planes apart to repair, modify or
change
> the batteries! Fortunately they are tolerant and willing to tell
him
> what they are doing and why, which he just eats up........
>
> Now for the favor.. His pre-school (he's four) class has a project
to
> collect postcards from as many states as possible in the next
month. I
> have filled out and sent a QSL card, which might spark some
interest or
> questions from the group. It occurred to me that several QSL cards
from
> various states might serve to show the class the spread of Ham
Radio.
>
> So... If you have a QSL, or even a postcard with your call written
on
> it, Ryan and I would appreciate your sending it to
>
> Ryan Bledsoe
> c/o Kids Connection, Inc.
> 40W304 LaFox Rd.
> St. Charles, IL 60175
>
> Thanks for your consideration!
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA

>

1100. Re: [DrakeRadio] WTB: 7 pin and 9 pin bayonette tube shields

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 02:23:17 UTC
From: Garey Barrell
Topic: 1098 Message: 1100

Dale -

V6 and V7 do NOT need shields. The shell at the bottom is there just to screen the area below the plate of each tube.

No shields!

V11, V12 and V15 are the only tubes requiring shields, and they are all seven pin.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dale Parfitt wrote:
> For my TR-4CW/RIT. I was certain I had some spares here-but nada.
> If anyone has one of each I will gladly purchase. Otherwise it's off to
> the internet.
>
> Tnx,
>
> Dale W4OP
>
>
>

1101. Re: [DrakeRadio] WTB: 7 pin and 9 pin bayonette tube shields

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 02:56:24 UTC
From: DALE PARFITT
Topic: 1098 Message: 1101

Dale -

V6 and V7 do NOT need shields. The shell at the bottom is there just to screen the area below the plate of each tube.

No shields!

V11, V12 and V15 are the only tubes requiring shields, and they are all seven pin.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Thanks Gary,
I just got your CD in- if it had arrived earlier, I would have likely seen this. For those that have not yet purchased one of Garey's CD's, it's a wonderful resource for those times when our "babies" need attention.
I just got the right angle mic plug wired for my EV-664 and QSOed some friends on 75M, receiving excellent audio reports.

73,

Dale W4OP

1102. T4xc

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 20:00:15 UTC
From: wb8ure
Topic: 1102 Message: 1102

I have a drake t4xc that is stuck in transmit,Just shows idle current
any ideas?????

1103. Re: [DrakeRadio] T4xc

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 20:08:29 UTC
From: Garey Barrell
Topic: 1102 Message: 1103

SSB or CW?

VOX gain up too high?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

wb8ure wrote:
> I have a drake t4xc that is stuck in transmit,Just shows idle current
> any ideas?????
>

1104. Best Mic for TR-4C?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-09 20:22:36 UTC
From: DALE PARFITT
Topic: 1104 Message: 1104

What are the opinions of a good mic for the TR-4C? I have been using an EV-664 on previous BA's (KWM-2, SR-400) with good audio reports albeit not a lot of highs. Reports on my 4C are similar- smooth, lacking highs. I don't do much phone, but would like opinions.

Dale W4OP

[Non-text portions of this message have been removed]

1105. Front panel redo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 00:54:53 UTC
From: kd5aq
Topic: 1105 Message: 1105

Help please:
I saw an article somewhere on redoing or cleaning up front panels on Drake radios. I think it was on TR-7s but I have a Drake R4A that I am going to repaint the case and clean up the front panel(not in bad shape) and I can't find the artical.
Ron KD5AQ

1106. 4 Series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 16:14:59 UTC
From: Victor Waddington
Topic: 1106 Message: 1106

Hello
Looking for a couple of knobs for R-4c. Tuning knob and one of the standard knobs for the other controls. Can anybody help, please?
Vic - G4JSS

1107. Re: [DrakeRadio] 4 Series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 19:19:54 UTC
From: Garey Barrell
Topic: 1106 Message: 1107

Vic -

Alan has the only currently available new "bar" knobs that I know of.
<kc9ys@...>

C-Line Main Tuning knobs are kind of hard to find, although the bright
discs are readily available from Charlie Talbot <pincon@...>

Be aware that the 7 Line knob looks identical, but is slightly
shallower. It will work just fine on the C-Line by moving the C-clip a
little further out on the PTO shaft. Charlie often has 7 Line knobs
available also.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello
> Looking for a couple of knobs for R-4c. Tuning knob and one of the
> standard knobs for the other controls. Can anybody help, please?
> Vic - G4JSS
>
>
>

1108. Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 20:10:40 UTC
From: David Rose
Topic: 1108 Message: 1108

I had my AC-3 for my TR4 go bad earlier this week and having today off gave me a chance to check it out. I found the problem I believe; a bad capacitor (chassis mounted standup) value 100 mfd @ 150VDC/80 mfd @ 350 VDC. The one on the supply is leaking oil, which would explain the "smell". I don't know if any can be gotten at a parts store so I figured it be worth my while to see if someone on the users group would have one. If someone can help that would be great.

73

Dave KW1V

kw1v@...

[Non-text portions of this message have been removed]

1109. Re: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 21:13:21 UTC
From: Garey Barrell
Topic: 1108 Message: 1109

Dave -

You can probably get a replacement cap from

<http://www.hayseedhamfest.com/capkit.htm>

Tom doesn't stock these, but can probably get one made in a week or two.

Most likely the rest of the electrolytics are not far behind.
Personally I think you'd be much better off to install the upgrade kit from

<http://www.sunlightenergysystems.com/theheathkitshop/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

David Rose wrote:
> I had my AC-3 for my TR4 go bad earlier this week and having today off gave me a chance to check it out. I found the problem I believe; a bad capacitor (chassis mounted standup) value 100 mfd @ 150VDC/80 mfd @ 350 VDC. The one on the supply is leaking oil, which would explain the "smell". I don't know if any can be gotten at a parts store so I figured it be worth my while to see if someone on the users group would have one. If someone can help that would be great.
>
> 73
>
> Dave KW1V
>
> kw1v@...
>
>
>

1110. Re: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 21:37:07 UTC
From: Garey Barrell
Topic: 1108 Message: 1110

Dave -

Meant to mention in my previous message that Tom needs to know the size
of the original cap, i.e., 1" or 1-3/8" diameter can and maximum height
to be able to make you a replacement.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

David Rose wrote:
> I had my AC-3 for my TR4 go bad earlier this week and having today off gave me a chance to check it out. I found the problem I believe; a bad capacitor (chassis mounted standup) value 100 mfd @ 150VDC/80 mfd @ 350 VDC. The one on the supply is leaking oil, which would explain the "smell". I don't know if any can be gotten at a parts store so I figured it be worth my while to see if someone on the users group would have one. If someone can help that would be great.
>
> 73
>
> Dave KW1V
>
> kw1v@...
>
>

1111. My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 22:11:54 UTC
From: Jose V. Gavila
Topic: 1111 Message: 1111

Hello my friends,

Well, I have finally started to build a new page in my WEB, devoted to my TR-4C works. It has plenty of detailed pictures and comments.

Address is:

http://jvgavila.com/dktr4c_2.htm

Hope you enjoy it!

Best regards,

JOSE
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1112. RE: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-10 22:19:29 UTC
From: Walter Milton
Topic: 1108 Message: 1112

Dave,

Good advise from Garey. I had the same one go on my AC-4 and I changed the whole lot out with the AC-4R kit from theheathkitshop. It also knock down some of the noise on receive. Now I do not have to worry about one of the caps going bad.

Walt. , KA2NJF
Psalm 1
A child of the living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, September 10, 2008 5:13 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Bad cap on AC-3

Dave -

You can probably get a replacement cap from

<http://www.hayseedh <http://www.hayseedhamfest.com/capkit.htm>
amfest.com/capkit.htm>

Tom doesn't stock these, but can probably get one made in a week or two.

Most likely the rest of the electrolytics are not far behind.
Personally I think you'd be much better off to install the upgrade kit from

<http://www.sunlight
<http://www.sunlightenergysystems.com/theheathkitshop/page6/page6.html>
energysystems.com/theheathkitshop/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

David Rose wrote:
> I had my AC-3 for my TR4 go bad earlier this week and having today off gave me a chance to check it out. I found the problem I believe; a bad capacitor (chassis mounted standup) value 100 mfd @ 150VDC/80 mfd @ 350 VDC. The one on the supply is leaking oil, which would explain the "smell". I don't know if any can be gotten at a parts store so I figured it be worth my while to see if someone on the users group would have one. If someone can

help that would be great.
>
> 73
>
> Dave KW1V
>
> kw1v@... <mailto:kw1v%40snet.net>
>
>
>

[Non-text portions of this message have been removed]

1113. Re: [DrakeRadio] 4 Series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 06:29:16 UTC
From: g4jss@tiscali.co.uk
Topic: 1106 Message: 1113

Thanks Garey - will give those links a try.

Vic

----Original Message----
From: k4oah@...
Date: 10/09/2008 20:19
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] 4 Series

Vic -

Alan has the only currently available new "bar" knobs that I know of.
<kc9ys@...>

C-Line Main Tuning knobs are kind of hard to find, although the bright
discs are readily available from Charlie Talbot <pincon@...>

Be aware that the 7 Line knob looks identical, but is slightly
shallower. It will work just fine on the C-Line by moving the C-clip a
little further out on the PTO shaft. Charlie often has 7 Line knobs
available also.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello
> Looking for a couple of knobs for R-4c. Tuning knob and one of the
> standard knobs for the other controls. Can anybody help, please?
> Vic - G4JSS
>
>
>

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1114. RE: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 09:08:14 UTC
From: g4jss@tiscali.co.uk
Topic: 1108 Message: 1114

Hi

Also had same problem with AC-4. Wasn't able to get replacements so I changed the double for two single 100mfd 450v. Because modern caps are much smaller there is enough room on the chassis to lay them down instead of standup and then redirected the wiring. Replaced the other caps as well. Total cost about $18 and it works well although it looks nothing like the original.

But I would be interested to know how much the AC-4 upgrade kit costs.

Vic

----Original Message----
From: wmilton@...
Date: 10/09/2008 23:19
To: <DrakeRadio@yahoogroups.com>
Subj: RE: [DrakeRadio] Bad cap on AC-3

Dave,

Good advise from Garey. I had the same one go on my AC-4 and I changed the whole lot out with the AC-4R kit from theheathkitshop. It also knock down some of the noise on receive. Now I do not have to worry about one of the caps going bad.

Walt. , KA2NJF
Psalm 1
A child of the living God

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, September 10, 2008 5:13 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Bad cap on AC-3

Dave -

You can probably get a replacement cap from

<http://www.hayseedh <http://www.hayseedhamfest.com/capkit.htm>
amfest.com/capkit.htm>

Tom doesn't stock these, but can probably get one made in a week or two.

Most likely the rest of the electrolytics are not far behind.
Personally I think you'd be much better off to install the upgrade kit from

<http://www.sunlight
<http://www.sunlightenergysystems.com/theheathkitshop/page6/page6.html>
energysystems.com/theheathkitshop/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

David Rose wrote:
> I had my AC-3 for my TR4 go bad earlier this week and having today off gave me a chance to check it out. I found the problem I believe; a bad capacitor (chassis mounted standup) value 100 mfd @ 150VDC/80 mfd @ 350 VDC. The one on the supply is leaking oil, which would explain the "smell". I don't know if any can be gotten at a parts store so I figured it be worth my while to see if someone on the users group would have one. If someone can help that would be great.
>
> 73
>
> Dave KW1V
>
> kw1v@... <mailto:kw1v%40snet.net>
>
>
>

[Non-text portions of this message have been removed]

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1115. RE: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 09:33:26 UTC
From: Jose V. Gavila
Topic: 1108 Message: 1115

Hi Vic and all the Group,

>Also had same problem with AC-4. Wasn't able to get replacements so I changed
>the double for two single 100mfd 450v. Because modern caps are much smaller
>there is enough room on the chassis to lay them down instead of standup and
>then redirected the wiring. Replaced the other caps as well. Total cost about
>$18 and it works well although it looks nothing like the original.
>
>But I would be interested to know how much the AC-4 upgrade kit costs.

If you are talking about the AC-4R kit, I bought a couple of them just some weeks ago. They were US$65 each + shipping

I had installed previously another one and they are perfect for the job and give a very professional look to the power supply. One of the last two is going to my AC-3 and the other one is already installed in a customer's AC-4. I plan to buy some more to put in my three AC-4s. As you can see, I like them :-)

Regards,

JOSE

---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm

European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1116. RE: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 10:16:09 UTC
From: g4jss@tiscali.co.uk
Topic: 1108 Message: 1116

Thanks Jose

Vic

PS Posted that choke yesterday via airmail

----Original Message----
From: eb5agv@...
Date: 11/09/2008 10:33
To: <DrakeRadio@yahoogroups.com>
Subj: RE: [DrakeRadio] Bad cap on AC-3

Hi Vic and all the Group,

>Also had same problem with AC-4. Wasn't able to get replacements so I changed
>the double for two single 100mfd 450v. Because modern caps are much smaller
>there is enough room on the chassis to lay them down instead of standup and
>then redirected the wiring. Replaced the other caps as well. Total cost about
>$18 and it works well although it looks nothing like the original.
>
>But I would be interested to know how much the AC-4 upgrade kit costs.

If you are talking about the AC-4R kit, I bought a couple of them just some
weeks ago. They were US$65 each + shipping

I had installed previously another one and they are perfect for the job and give
a very professional look to the power supply. One of the last two is going to my
AC-3 and the other one is already installed in a customer's AC-4. I plan to buy
some more to put in my three AC-4s. As you can see, I like them :-)

Regards,

JOSE

---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm

European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1117. Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 12:59:43 UTC
From: Don
Topic: 1111 Message: 1117

The pictures look good, Thanks for posting your efforts!

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...>
wrote:
>
> Hello my friends,
>
> Well, I have finally started to build a new page in my WEB, devoted
to my
> TR-4C works. It has plenty of detailed pictures and comments.
>
> Address is:
>
> http://jvgavila.com/dktr4c_2.htm
>
> Hope you enjoy it!
>
> Best regards,
>
> JOSE
> --
--
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
> Vintage Radio: http://jvgavila.com
> Vintage Test Equipment: http://jvgavila.com/testeq.htm
> European Boatanchors List:
http://groups.yahoo.com/group/euro_ba_swap
>

1118. Re: Front panel redo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 13:02:12 UTC
From: Don
Topic: 1105 Message: 1118

Have you lookede through the Drake Museum? I think I saw an article
on there about it.

http://www.dproducts.be/drake_museum/

--- In DrakeRadio@yahoogroups.com, "kd5aq" <fbaker@...> wrote:
>
> Help please:
> I saw an article somewhere on redoing or cleaning up front panels on
> Drake radios. I think it was on TR-7s but I have a Drake R4A that I am
> going to repaint the case and clean up the front panel(not in bad
> shape) and I can't find the artical.
> Ron KD5AQ
>

1119. Re: [DrakeRadio] Bad cap on AC-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 14:12:00 UTC
From: Garey Barrell
Topic: 1108 Message: 1119

Vic -

<http://www.theheathkitshop.com/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi
>
> Also had same problem with AC-4. Wasn't able to get replacements so I changed the double for two single 100mfd 450v. Because modern caps are much smaller there is enough room on the chassis to lay them down instead of standup and then redirected the wiring. Replaced the other caps as well. Total cost about $18 and it works well although it looks nothing like the original.
>
> But I would be interested to know how much the AC-4 upgrade kit costs.
>
> Vic
>
>
>

1120. Re: [DrakeRadio] Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 20:37:03 UTC
From: Jose V. Gavila
Topic: 1111 Message: 1120

Hello!

Thanks for your kind comments about my (under construction) TR-4C page (if someone missed it, it is located at: http://jvgavila.com/dktr4c_2.htm)

Well, I am in need of a couple 10m crystals, as one of them is of the wrong frequency and the other one is just missing. They are the 42.5 and 43.6 MHz crystals. Please, let me know if you have one or both available.

Thanks!

JOSE

---

73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1121. Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 20:44:08 UTC
From: w5rkl
Topic: 1111 Message: 1121

Another Drake restoration and technical website is at the following link:

http://www.wb4hfn.com/DRAKE/DrakeTechTips.htm

Ron has a number of excellent technical articles pertaining to most
R.L. Drake transmitter, transceiver, and receivers.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hello!
>
> Thanks for your kind comments about my (under construction) TR-4C
page (if
> someone missed it, it is located at: http://jvgavila.com/dktr4c_2.htm)
>
> Well, I am in need of a couple 10m crystals, as one of them is of
the wrong
> frequency and the other one is just missing. They are the 42.5 and
43.6 MHz
> crystals. Please, let me know if you have one or both available.
>
> Thanks!
>
> JOSE
> --
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
> Vintage Radio: http://jvgavila.com
> Vintage Test Equipment: http://jvgavila.com/testeq.htm
> European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap
>

1122. RE: [DrakeRadio] Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-11 21:33:30 UTC
From: John Page
Topic: 1111 Message: 1122

I have both crystals from a parts chassis. John k4kwm

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: eb5agv@...
Date: Thu, 11 Sep 2008 22:37:03 +0200
Subject: Re: [DrakeRadio] Re: My TR-4C restoration WEB page

Hello!

Thanks for your kind comments about my (under construction) TR-4C page (if

someone missed it, it is located at: http://jvgavila.com/dktr4c_2.htm)

Well, I am in need of a couple 10m crystals, as one of them is of the wrong

frequency and the other one is just missing. They are the 42.5 and 43.6 MHz

crystals. Please, let me know if you have one or both available.

Thanks!

JOSE

---

73 EB5AGV / EC5AAU - JOSE V. GAVILA

La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com

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---
Stay up to date on your PC, the Web, and your mobile phone with Windows Live.
http://clk.atdmt.com/MRT/go/msnnkwxp1020093185mrt/direct/01/

[Non-text portions of this message have been removed]

1123. MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 00:27:49 UTC
From: Dale Parfitt
Topic: 1123 Message: 1123

I just received a logo for my MS-4 that did not have one. Can someone give me a measurement from, say, the lower right inside corner of the cabinet to the lower right corner of the logo so I can properly register it?

Tnx,

Dale W4OP

1124. Re: [DrakeRadio] MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 02:21:51 UTC
From: Garey Barrell
Topic: 1123 Message: 1124

Dale -

The correct placement is 3/4" from the right, up 3/4" from the bottom. These dimensions are from the inner surface of the rolled cabinet edge, so would a little more (3/16") from the edge of the perforated front panel if you're doing it out of the cabinet.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dale Parfitt wrote:
> I just received a logo for my MS-4 that did not have one. Can someone
> give me a measurement from, say, the lower right inside corner of the
> cabinet to the lower right corner of the logo so I can properly
> register it?
>
> Tnx,
>
> Dale W4OP
>
>

1125. Re: [DrakeRadio] MS-4 Logo PLacement & 34-PNB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 02:48:17 UTC
From: DALE PARFITT
Topic: 1125 Message: 1125

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Thursday, September 11, 2008 10:21 PM
Subject: Re: [DrakeRadio] MS-4 Logo PLacement

Dale -

The correct placement is 3/4" from the right, up 3/4" from the bottom.
These dimensions are from the inner surface of the rolled cabinet edge,
so would a little more (3/16") from the edge of the perforated front
panel if you're doing it out of the cabinet.

73, Garey - K4OAH
Glen Allen, VA

Got it- thanks Garey. It's installed and looks great.

Anyone have a 34-PNB they would be willing to sell?

Dale W4OP

1126. Re: [DrakeRadio] Re: T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 16:43:38 UTC
From: Jose V. Gavila
Topic: 1054 Message: 1126

Hi Mike, Garey and all the List,

Some time ago I asked about a problem with a T4X-C and you told me this:

At 09:29 31/08/2008 -0400, K4OAH wrote:
>Good point Mike.
>
>The ALC is active in the TUNE mode, and is the reason for the "topping
>out" of the GAIN control at about 10 o'clock. There is no ALC in CW,
>and so the GAIN control and output power are both capable of going
>higher. So if the stage gain(s) are down because of tube decline or
>misalignment, it's easier to spot in CW because of the masking effect of
>the ALC.
>
>However, it is normal for the GAIN control to be advanced further in CW
>than in TUNE or SSB in a properly working transmitter.
>
>Obviously, power supply problems can cause all sorts of transmitter
>anomalies!! :-)
>
>73, Garey - K4OAH
>Glen Allen, VA
>
>w5rkl wrote:
> > Another possibility is the T4XC is out of alignment and the final may
> > need to be neutralized. I experience a similar output problem with my
> > T4XC. However, after performing the alignment listed in the manual,
> > the transmitter's output and tuning greatly improved. I now obtain
> > full output at 2 o'clock with the plate at full dip and the load
> > control set as stated in the manual.
> >
> > If the AC4 can't provide the stable voltages and current the output
> > will be affected.
> >
> > Just a thought.
> >
> > 73
> > Mike
> > W5RKL

Well, you were absolutely right!. It needs to be about "2 o'clock" to get similar power in CW mode than in TUNE mode.

So it was not a fault but a 'feature' ;-)

Thanks for your help!

Regards,

JOSE
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN) - Loc: IM99SM

Vintage Radio: http://jvgavila.com
Vintage Test Equipment: http://jvgavila.com/testeq.htm
European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

1127. Re: [DrakeRadio] Re: T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 16:51:01 UTC
From: Garey Barrell
Topic: 1054 Message: 1127

Jose -

The reason is the GAIN control is a dual section, and the two sections act in entirely ways.

The AF portion of the GAIN control determines either the Mic Preamp gain or the level of the AF tone in TUNE mode.

The CW portion controls the amount of dc current applied to the Balanced Modulator diodes to "unbalance" it and allow the Carrier Oscillator to pass through.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Well, you were absolutely right!. It needs to be about "2 o'clock" to get
> similar power in CW mode than in TUNE mode.
>
> So it was not a fault but a 'feature' ;-)
>
> Thanks for your help!
>
> Regards,
>
> JOSE
> ---
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
>

1128. Re: T-4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-12 22:03:31 UTC
From: w5rkl
Topic: 1054 Message: 1128

Hello Jose,

That's great. However, does the maximum RF output occur at the same time as the maximum final plate current dip? If maximum final output does not occur at the same time the final's maximum plate current dip occurs, the final amplifier is not neutralized.

A final that is not neutralized will produce higher than normal plate current at maximum RF output which creates more heat in the final tubes, radiates spurious emissions, and shortens the life span of final tubes.

Just some thoughts.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hi Mike, Garey and all the List,
>
> Some time ago I asked about a problem with a T4X-C and you told me this:
>
> At 09:29 31/08/2008 -0400, K4OAH wrote:
> >Good point Mike.
> >
> >The ALC is active in the TUNE mode, and is the reason for the "topping
> >out" of the GAIN control at about 10 o'clock. There is no ALC in CW,
> >and so the GAIN control and output power are both capable of going
> >higher. So if the stage gain(s) are down because of tube decline or
> >misalignment, it's easier to spot in CW because of the masking
effect of
> >the ALC.
> >
> >However, it is normal for the GAIN control to be advanced further in CW
> >than in TUNE or SSB in a properly working transmitter.
> >
> >Obviously, power supply problems can cause all sorts of transmitter
> >anomalies!! :-)
> >
> >73, Garey - K4OAH
> >Glen Allen, VA
> >
> >w5rkl wrote:
> > > Another possibility is the T4XC is out of alignment and the

final may
> > > need to be neutralized. I experience a similar output problem
with my
> > > T4XC. However, after performing the alignment listed in the manual,
> > > the transmitter's output and tuning greatly improved. I now obtain
> > > full output at 2 o'clock with the plate at full dip and the load
> > > control set as stated in the manual.
> > >
> > > If the AC4 can't provide the stable voltages and current the output
> > > will be affected.
> > >
> > > Just a thought.
> > >
> > > 73
> > > Mike
> > > W5RKL
>
>
> Well, you were absolutely right!. It needs to be about "2 o'clock"
to get
> similar power in CW mode than in TUNE mode.
>
> So it was not a fault but a 'feature' ;-)
>
> Thanks for your help!
>
> Regards,
>
> JOSE
> ---
> 73 EB5AGV / EC5AAU - JOSE V. GAVILA
> La Canyada - Valencia (SPAIN) - Loc: IM99SM
>
> Vintage Radio: http://jvgavila.com
> Vintage Test Equipment: http://jvgavila.com/testeq.htm
> European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap
>

1129. 34-PNB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 16:06:26 UTC
From: Dale Parfitt
Topic: 1129 Message: 1129

Will any of the 34-PNB's work in my CW/RIT or should I be looking for a certain S.N. and higher? I thought I had seen a note on this somewhere.

Tnx,
Dale W4OP

1130. Re: [DrakeRadio] 34-PNB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 19:48:31 UTC
From: Garey Barrell
Topic: 1129 Message: 1130

Dale -

The Drake Noise Blankers are all basically the same circuit, the 9-NB, 34-NB, PNB-34, NB-4, NB-7 etc.

The 34-NB was for the TR-3/4 and consisted of the 9-NB and the NBK board along with the mechanical parts to add the control lever for the front panel. The NBK board was only required for the TR-3 and early TR-4 units with the soupcan or single can filter to match the impedance of those filters. Originally it was only available as a factory installed option. According to the 34-NB product sheet, it was included as standard in some versions of the TR-4, but I've never seen one "in person".

Starting with Version 7 of the TR-4, the front panel switch (lower right corner of panel) and the internal 9 pin socket were added to allow field installation of the 34-PNB.

The TR-4CwRIT moved the NB control to the push-button, and replaced the NB rotary switch with the RIT control.

Bottom line, any of the 34-PNB Noise Blankers (with the 9-pin plug on the bottom edge of the board) will work fine.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dale Parfitt wrote:
> Will any of the 34-PNB's work in my CW/RIT or should I be looking for a
> certain S.N. and higher? I thought I had seen a note on this somewhere.
>
> Tnx,
> Dale W4OP
>
>

1131. R4-A AGC problem?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 20:21:51 UTC
From: mater@concordia.psi.br
Topic: 1131 Message: 1131

Dear Friends, I am working in the restoration of a Drake R-4A. It would like to verify if anybody knows a possible way for the resolution of the following problem: When I power the radio the indication of s-meter is going to the end of the scale and stays (tension in the terminals of S-meter = 14,2V). A quite intense loss of sensibility of the receiver exists. I thought the problem could be in the section of AGC (Tube 13) even so the tensions are OK (1,3 V in the TP-2). I already try to find for any problem in several points, but without success... Can anybody help me?

Thaks in advance

Alexandre Mater
PU5-ALE

1132. Re: [DrakeRadio] 34-PNB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 20:32:28 UTC
From: DALE PARFITT
Topic: 1129 Message: 1132

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, September 13, 2008 3:48 PM
Subject: Re: [DrakeRadio] 34-PNB

Dale -

The Drake Noise Blankers are all basically the same circuit, the 9-NB, 34-NB, PNB-34, NB-4, NB-7 etc.

The 34-NB was for the TR-3/4 and consisted of the 9-NB and the NBK board along with the mechanical parts to add the control lever for the front panel. The NBK board was only required for the TR-3 and early TR-4 units with the soupcan or single can filter to match the impedance of those filters. Originally it was only available as a factory installed option. According to the 34-NB product sheet, it was included as standard in some versions of the TR-4, but I've never seen one "in person".

Starting with Version 7 of the TR-4, the front panel switch (lower right corner of panel) and the internal 9 pin socket were added to allow field installation of the 34-PNB.

The TR-4CwRIT moved the NB control to the push-button, and replaced the NB rotary switch with the RIT control.

Bottom line, any of the 34-PNB Noise Blankers (with the 9-pin plug on the bottom edge of the board) will work fine.

73, Garey - K4OAH
Glen Allen, VA

You're the man Garey- and I appreciate the history.

Dale W4OP

1133. Re: R4-A AGC problem?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 21:07:52 UTC
From: w5rkl
Topic: 1131 Message: 1133

Hello Alexandre,

Check the RF gain control setting. It may be set incorrectly which
will cause the S meter to read full scale.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, mater@... wrote:
>
> Dear Friends, I am working in the restoration of a Drake R-4A. It
> would like to verify if anybody knows a possible way for the
> resolution of the following problem: When I power the radio the
> indication of s-meter is going to the end of the scale and stays
> (tension in the terminals of S-meter = 14,2V). A quite intense loss of
> sensibility of the receiver exists. I thought the problem could be in
> the section of AGC (Tube 13) even so the tensions are OK (1,3 V in the
> TP-2). I already try to find for any problem in several points, but
> without success... Can anybody help me?
>
> Thaks in advance
>
> Alexandre Mater
> PU5-ALE
>

1134. Re: [DrakeRadio] R4-A AGC problem?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 21:13:47 UTC
From: Garey Barrell
Topic: 1131 Message: 1134

Alexandre -

First be sure there is a shorted RCA plug in the MUTE jack on the back of the receiver.

Next is to verify the -80V DC supply, measure across C91, originally a black, tubular electrolytic under the chassis, back near the power transformer.

Since you mention an AVC "TUBE" you have either a Version 1 or Version 2 model.

The S-Meter circuit is a bridge, that compares the plate current drawn by the 1st and 2nd Mixer stages (V2 & V3), against the plate current drawn by the 1st and 2nd IF stages (V4 & V5). The 12BA6, and to a lesser extent the 12BE6 are both prone to grid emission (gas) and can cause the stage to draw excessive current and unbalance the bridge. So if you have spare tubes available, swapping these four out one at a time might reveal the troublemaker. If you don't have a spare 6HS6, you can sub a 6AU6A temporarily for this test.

If no spare tubes, you could start by measuring the plate voltage (Pin 5 on all) to see if one is unusually low. Should read approximately

V2 - 145V DC
V3 - 140V DC
V4 - 135V DC
V5 - 110V DC

If no luck, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

mater@... wrote:
> Dear Friends, I am working in the restoration of a Drake R-4A. It
> would like to verify if anybody knows a possible way for the
> resolution of the following problem: When I power the radio the
> indication of s-meter is going to the end of the scale and stays
> (tension in the terminals of S-meter = 14,2V). A quite intense loss of
> sensibility of the receiver exists. I thought the problem could be in
> the section of AGC (Tube 13) even so the tensions are OK (1,3 V in the
> TP-2). I already try to find for any problem in several points, but
> without success... Can anybody help me?

>
> Thaks in advance
>
> Alexandre Mater
> PU5-ALE
>
>
>

1135. Re: [DrakeRadio] Re: R4-A AGC problem?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-13 21:21:58 UTC
From: mater@concordia.psi.br
Topic: 1131 Message: 1135

Hi Mike,

Is correctly set. In any place of RF gain control I find the same result.

Thanks

73

Alexandre
PU5ALE

Quoting w5rkl <w5rkl@...>:

> Hello Alexandre,
>
> Check the RF gain control setting. It may be set incorrectly which
> will cause the S meter to read full scale.
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, mater@... wrote:
>>
>> Dear Friends, I am working in the restoration of a Drake R-4A. It
>> would like to verify if anybody knows a possible way for the
>> resolution of the following problem: When I power the radio the
>> indication of s-meter is going to the end of the scale and stays
>> (tension in the terminals of S-meter = 14,2V). A quite intense loss of
>> sensibility of the receiver exists. I thought the problem could be in
>> the section of AGC (Tube 13) even so the tensions are OK (1,3 V in the
>> TP-2). I already try to find for any problem in several points, but
>> without success... Can anybody help me?
>>
>> Thaks in advance
>>
>> Alexandre Mater
>> PU5-ALE
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

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>
>

1136. R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-14 20:31:52 UTC
From: w5rkl
Topic: 1136 Message: 1136

Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My spare R4C needs the top portion only. No dents, bends, or extra holes. I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION switches.

73
Mike
W5RKL

1137. Re: [DrakeRadio] R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-14 21:10:01 UTC
From: Garey Barrell
Topic: 1136 Message: 1137

Mike -

Sorry no extra cabinet pieces here. Alan, KC9YS has the bar knobs
available, just in case you weren't aware!

<http://www.wb4hfn.com/DRAKE/DrakeArticles/DrakeKnobs.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My
> spare R4C needs the top portion only. No dents, bends, or extra holes.
> I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION
> switches.
>
> 73
> Mike
> W5RKL
>
>
>

1138. Re: R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-14 21:37:56 UTC
From: w5rkl
Topic: 1136 Message: 1138

Afternoon Garey,

Thanks for the knob reference. Will check it out.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Sorry no extra cabinet pieces here. Alan, KC9YS has the bar knobs
> available, just in case you weren't aware!
>
> <http://www.wb4hfn.com/DRAKE/DrakeArticles/DrakeKnobs.htm>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> w5rkl wrote:
> > Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My
> > spare R4C needs the top portion only. No dents, bends, or extra holes.
> > I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION
> > switches.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
>

1139. Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-14 22:28:23 UTC
From: jfelts13
Topic: 1042 Message: 1139

Can someone tell me what crystals I need to get the low end of 10m, 17m, and 30m and where to get them. Also where do they go in the reciever. ABCD slot??

Jerry - nr5a

1140. Re: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 00:46:06 UTC
From: k9qb
Topic: 1042 Message: 1140

Hi Jerry,

The 2A manual has a list of all the xtals and which sockets they go into.

I'm interested in obtaining xtals for 10 mhz and 18 mhz bands as well. I have built several qrp rigs, mostly xcvrs, and, want to build some more little transmitters to use with my 2A.

I have a list of xtal mfrs...

Mebbe we should put our heads together and come up with the best pricing on some HC6U xtals to give us these bands..

I wonder if there's anyone else out there with 2A's, 2B's or 2C's in doing the same???

Mike, WA5PSE

--- In DrakeRadio@yahoogroups.com, "jfelts13" <NR5AJerry@...> wrote:
>
> Can someone tell me what crystals I need to get the low end of 10m,
> 17m, and 30m and where to get them. Also where do they go in the
> reciever. ABCD slot??
>
> Jerry - nr5a
>

1141. Re: MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 01:47:02 UTC
From: Dean Hemphill
Topic: 1123 Message: 1141

On my MS-4, the logo is 3/4" up from the lower edge of the panel, and 5/8" in from the right side. I wonder if there just isn't an "exact" location, but more like an approximate location. Hmmm...

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
> I just received a logo for my MS-4 that did not have one. Can someone
> give me a measurement from, say, the lower right inside corner of the
> cabinet to the lower right corner of the logo so I can properly
> register it?
>
> Tnx,
>
> Dale W4OP
>

1142. Re: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 01:50:11 UTC
From: w5rkl
Topic: 1042 Message: 1142

Hello Jerry and Mike,

International Crystal in Oklahoma City, Oklahoma can provide the 2A crystal you need.

http://www.icmfg.com/hamradio.html

I purchased a replacement 40 meter heterodyne oscillator crystal for my R4C, 18.100Mhz, and the cost was $20 plus a few bucks shipping. Takes a few weeks to get the crystals but it's worth the wait.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "k9qb" <k9qb@...> wrote:
>
> Hi Jerry,
>
> The 2A manual has a list of all the xtals and which sockets they go
> into.
>
> I'm interested in obtaining xtals for 10 mhz and 18 mhz bands as well.
> I have built several qrp rigs, mostly xcvrs, and, want to build some
> more little transmitters to use with my 2A.
>
> I have a list of xtal mfrs...
>
> Mebbe we should put our heads together and come up with the best
> pricing on some HC6U xtals to give us these bands..
>
> I wonder if there's anyone else out there with 2A's, 2B's or 2C's in
> doing the same???
>
> Mike, WA5PSE
>
>
> --- In DrakeRadio@yahoogroups.com, "jfelts13" <NR5AJerry@> wrote:
> >
> > Can someone tell me what crystals I need to get the low end of 10m,
> > 17m, and 30m and where to get them. Also where do they go in the
> > reciever. ABCD slot??
> >
> > Jerry - nr5a
> >
>

1143. Re: [DrakeRadio] R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 14:15:30 UTC
From: g4jss@tiscali.co.uk
Topic: 1136 Message: 1143

Hi Garey

Web site OK for bar switches. Tried to send him an order via email but it was returned undelivered due to faulty address. I read it as kc9ys@.... Do you know if this is correct, please?

Vic

----Original Message----
From: k4oah@...
Date: 14/09/2008 22:10
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] R4C cabine top

Mike -

Sorry no extra cabinet pieces here. Alan, KC9YS has the bar knobs
available, just in case you weren't aware!

<http://www.wb4hfn.com/DRAKE/DrakeArticles/DrakeKnobs.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My
> spare R4C needs the top portion only. No dents, bends, or extra holes.
> I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION
> switches.
>
> 73
> Mike
> W5RKL
>
>
>

What can Tiscali do for you? - http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1144. Re: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 14:44:45 UTC
From: jfelts13
Topic: 1042 Message: 1144

Ok so I know where to get the crystals. I still don't know what ones
I need to order, or what slot they go in. I don't have a manual so I
can't look it up.

Jerry - NR5A

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Jerry and Mike,
>
> International Crystal in Oklahoma City, Oklahoma can provide the 2A
> crystal you need.
>
> http://www.icmfg.com/hamradio.html
>
> I purchased a replacement 40 meter heterodyne oscillator crystal for
> my R4C, 18.100Mhz, and the cost was $20 plus a few bucks shipping.
> Takes a few weeks to get the crystals but it's worth the wait.
>
> 73
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, "k9qb" <k9qb@> wrote:
> >
> > Hi Jerry,
> >
> > The 2A manual has a list of all the xtals and which sockets they
go
> > into.
> >
> > I'm interested in obtaining xtals for 10 mhz and 18 mhz bands as
well.
> > I have built several qrp rigs, mostly xcvrs, and, want to build
some
> > more little transmitters to use with my 2A.
> >
> > I have a list of xtal mfrs...
> >
> > Mebbe we should put our heads together and come up with the best
> > pricing on some HC6U xtals to give us these bands..
> >
> > I wonder if there's anyone else out there with 2A's, 2B's or 2C's
in

> > doing the same???
> >
> > Mike, WA5PSE
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "jfelts13" <NR5AJerry@> wrote:
> > >
> > > Can someone tell me what crystals I need to get the low end of
10m,
> > > 17m, and 30m and where to get them. Also where do they go in
the
> > > reciever. ABCD slot??
> > >
> > > Jerry - nr5a
> > >
> >
>

1145. Re: [DrakeRadio] R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 15:13:07 UTC
From: Garey Barrell
Topic: 1136 Message: 1145

Vic -

That's the same address I have. They have had some bad weather up
there, lots of flooding, so there may be some comms problems.

I'll see what I can find out!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> Web site OK for bar switches. Tried to send him an order via email but it was returned undelivered due to faulty address. I read it as kc9ys@.... Do you know if this is correct, please?
>
> Vic
>
>

1146. Re: [DrakeRadio] R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 17:48:53 UTC
From: Garey Barrell
Topic: 1136 Message: 1146

Mike -

Re your cabinet top search.

Just in case you are not aware, ALL the 4 Line separates R-4 / T-4 have the same cabinet top. The
early ones, (R-4 and R-4A,) were smooth semi-flat black while the R-4B and R-4C were a "spatter"
finish, and finally powder coated. But they're all the same mechanically. Might be able to widen
your search a bit.

73, Garey - K4OAH
Glen Allen, VA

w5rkl wrote:
> Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My
> spare R4C needs the top portion only. No dents, bends, or extra holes.
> I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION
> switches.
>
> 73
> Mike
> W5RKL
>
>
>

1147. Re: R4C cabine top

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 18:37:01 UTC
From: w5rkl
Topic: 1136 Message: 1147

Hi Garey,

Yes I know the cabinet sizes are the same with the R4 and T4 <any's>. Whether the paint is powder coated or not is, to me, not important. I can have it repainted. I've been considering selling my Kenwood TS-820S and VFO-820 in hopes of picking up a nice TR-4 or TR-4C and AC4 supply. Haven't decided yet whether to do that or not.

Thank Garey for the info. Always good to be reminded of things one forgets as we get older.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Re your cabinet top search.
>
> Just in case you are not aware, ALL the 4 Line separates R-4 / T-4 have the same cabinet top. The
> early ones, (R-4 and R-4A,) were smooth semi-flat black while the R-4B and R-4C were a "spatter"
> finish, and finally powder coated. But they're all the same mechanically. Might be able to widen
> your search a bit.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
> w5rkl wrote:
> > Anyone have a cabinet top to an R4C or any of the R4<any> cabinets? My
> > spare R4C needs the top portion only. No dents, bends, or extra holes.
> > I'm also looking for 3 Drake knobs for the BAND, NOTCH, and FUNCTION
> > switches.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >

>

1148. Re: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-15 19:03:20 UTC
From: w5rkl
Topic: 1042 Message: 1148

Hello Jerry,

You can download the 2A manual at the following website. You will need the "DjVu" reader to view the files. The reader can be obtained at the same website, free. Just scroll down and click on the DjVu reader icon and download and install it.

http://bama.edebris.com/manuals/drake/2a/

I recommend downloading the 2A manual from the above website and read starting on page 10. Page 11 give a list of every possible crystal frequency for every possible band you may want to receive.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "jfelts13" <NR5AJerry@...> wrote:
>
>
> Ok so I know where to get the crystals. I still don't know what ones
> I need to order, or what slot they go in. I don't have a manual so I
> can't look it up.
>
> Jerry - NR5A
>
>
>
>
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>
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>
>
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Jerry and Mike,
> >

> > International Crystal in Oklahoma City, Oklahoma can provide the 2A
> > crystal you need.
> >
> > http://www.icmfg.com/hamradio.html
> >
> > I purchased a replacement 40 meter heterodyne oscillator crystal for
> > my R4C, 18.100Mhz, and the cost was $20 plus a few bucks shipping.
> > Takes a few weeks to get the crystals but it's worth the wait.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "k9qb" <k9qb@> wrote:
> > >
> > > Hi Jerry,
> > >
> > > The 2A manual has a list of all the xtals and which sockets they
> go
> > > into.
> > >
> > > I'm interested in obtaining xtals for 10 mhz and 18 mhz bands as
> well.
> > > I have built several qrp rigs, mostly xcvrs, and, want to build
> some
> > > more little transmitters to use with my 2A.
> > >
> > > I have a list of xtal mfrs...
> > >
> > > Mebbe we should put our heads together and come up with the best
> > > pricing on some HC6U xtals to give us these bands..
> > >
> > > I wonder if there's anyone else out there with 2A's, 2B's or 2C's
> in
> > > doing the same???
> > >
> > > Mike, WA5PSE
> > >
> > >
> > > --- In DrakeRadio@yahoogroups.com, "jfelts13" <NR5AJerry@> wrote:
> > > >
> > > > Can someone tell me what crystals I need to get the low end of
> 10m,
> > > > 17m, and 30m and where to get them. Also where do they go in
> the
> > > > reciever. ABCD slot??
> > > >
> > > > Jerry - nr5a
> > > >

> > >
> >
>

1149. T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-16 14:22:53 UTC
From: tnham63
Topic: 1149 Message: 1149

My T-4XC has developed a problem.
Low output on 80/40 and 20m in the XCW position.
But in the TUNE position it is fine.
I did a re-align and peaked the output on inj and trimmers, but
this is all I get.
40m TUNE 140 W XCW 90/100 W
80M TUNE 140 W XCW 100 W
30M TUNE 150 W XCW 150 W (THIS BAND IS FINE)
20M TUNE 140 W XCW 100 W

This is with the XMTR GAIN control wide open . It used to
put out 140w on all bands now, just 30 meters..

Any ideas?

Thanks
Wink

1150. Re: T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 13:22:22 UTC
From: w5rkl
Topic: 1149 Message: 1150

Hello Wink,

You said you did a re-align and peaked the output on inj and trmmers.
Did you perform any additional alignment adjustments other than the
RF and Injection trimmer adjustments?

A complete alignment consist of more than just adjusting the RF and
Injection trimmers on the left side of the T4XC. Aging components,
including tubes, can affect the overall T4XC alignment which will
ultimately contribute to a change (reduction) in the final
amplifier's output.

Have the final amplifier tubes been replaced recently? If so did you
check the final amplifier to see if it needs to be neutralized? The
level of output from the final amplifier will be affected if the
final amplifier is not neutralized.

The key is for maximum final amplifier RF output to occur at the same
time that minimum plate current (dip) occurs when adjusting the PLATE
control. If you adjust the PLATE control either side of minimum plate
current in TUNE or CW mode and the output increases significantly, 10
to 20 watts for example, then the final needs to be neutralized.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> My T-4XC has developed a problem.
> Low output on 80/40 and 20m in the XCW position.
> But in the TUNE position it is fine.
> I did a re-align and peaked the output on inj and trimmers, but
> this is all I get.
> 40m TUNE 140 W XCW 90/100 W
> 80M TUNE 140 W XCW 100 W
> 30M TUNE 150 W XCW 150 W (THIS BAND IS FINE)
> 20M TUNE 140 W XCW 100 W
>
> This is with the XMTR GAIN control wide open . It used to
> put out 140w on all bands now, just 30 meters..
>
> Any ideas?
>
> Thanks
> Wink

>

1151. Re: T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 16:54:43 UTC
From: tnham63
Topic: 1149 Message: 1151

Hi Mike -
Yes, Neutralization is fine -- The finals were
relaced about 2 years ago and, I still get
full power out on 30meters.Also changed the Driver tube.
I guess some component has changed value but I don't
know where to look.

Wink

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Wink,
>
> You said you did a re-align and peaked the output on inj and
trmmers.
> Did you perform any additional alignment adjustments other than the
> RF and Injection trimmer adjustments?
>
> A complete alignment consist of more than just adjusting the RF and
> Injection trimmers on the left side of the T4XC. Aging components,
> including tubes, can affect the overall T4XC alignment which will
> ultimately contribute to a change (reduction) in the final
> amplifier's output.
>
> Have the final amplifier tubes been replaced recently? If so did
you
> check the final amplifier to see if it needs to be neutralized? The
> level of output from the final amplifier will be affected if the
> final amplifier is not neutralized.
>
> The key is for maximum final amplifier RF output to occur at the
same
> time that minimum plate current (dip) occurs when adjusting the
PLATE
> control. If you adjust the PLATE control either side of minimum
plate
> current in TUNE or CW mode and the output increases significantly,
10
> to 20 watts for example, then the final needs to be neutralized.
>
> 73
> Mike
> W5RKL
>
>

> --- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@> wrote:
> >
> > My T-4XC has developed a problem.
> > Low output on 80/40 and 20m in the XCW position.
> > But in the TUNE position it is fine.
> > I did a re-align and peaked the output on inj and trimmers, but
> > this is all I get.
> > 40m TUNE 140 W XCW 90/100 W
> > 80M TUNE 140 W XCW 100 W
> > 30M TUNE 150 W XCW 150 W (THIS BAND IS FINE)
> > 20M TUNE 140 W XCW 100 W
> >
> > This is with the XMTR GAIN control wide open . It used to
> > put out 140w on all bands now, just 30 meters..
> >
> > Any ideas?
> >
> > Thanks
> > Wink
> >
>

1152. Re: T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 18:30:37 UTC
From: w5rkl
Topic: 1149 Message: 1152

Hello Wink,

Although it's a good idea to initially check/substitute tubes, tubes are not always the source of problems. I recommend performing the resistive and voltage checks on page 5-4 of the T4XC's manual. These checks can possibly point you in the right direction or to the stage that may be causing your problem.

Another area that contributes to these types of problems are dirty switch contacts (band switch for example). This is common with vintage gear.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> Hi Mike -
> Yes, Neutralization is fine -- The finals were
> relaced about 2 years ago and, I still get
> full power out on 30meters.Also changed the Driver tube.
> I guess some component has changed value but I don't
> know where to look.
>
> Wink
>
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Wink,
> >
> > You said you did a re-align and peaked the output on inj and
> trmmers.
> > Did you perform any additional alignment adjustments other than the
> > RF and Injection trimmer adjustments?
> >
> > A complete alignment consist of more than just adjusting the RF and
> > Injection trimmers on the left side of the T4XC. Aging components,
> > including tubes, can affect the overall T4XC alignment which will
> > ultimately contribute to a change (reduction) in the final
> > amplifier's output.
> >
> > Have the final amplifier tubes been replaced recently? If so did
> you
> > check the final amplifier to see if it needs to be neutralized? The

> > level of output from the final amplifier will be affected if the
> > final amplifier is not neutralized.
> >
> > The key is for maximum final amplifier RF output to occur at the
> same
> > time that minimum plate current (dip) occurs when adjusting the
> PLATE
> > control. If you adjust the PLATE control either side of minimum
> plate
> > current in TUNE or CW mode and the output increases significantly,
> 10
> > to 20 watts for example, then the final needs to be neutralized.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@> wrote:
> > >
> > > My T-4XC has developed a problem.
> > > Low output on 80/40 and 20m in the XCW position.
> > > But in the TUNE position it is fine.
> > > I did a re-align and peaked the output on inj and trimmers, but
> > > this is all I get.
> > > 40m TUNE 140 W XCW 90/100 W
> > > 80M TUNE 140 W XCW 100 W
> > > 30M TUNE 150 W XCW 150 W (THIS BAND IS FINE)
> > > 20M TUNE 140 W XCW 100 W
> > >
> > > This is with the XMTR GAIN control wide open . It used to
> > > put out 140w on all bands now, just 30 meters..
> > >
> > > Any ideas?
> > >
> > > Thanks
> > > Wink
> > >
> >
>

1153. Re: [DrakeRadio] Re: MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 18:44:33 UTC
From: Garey Barrell
Topic: 1123 Message: 1153

Dean -

When this question was originally posted, I looked at the one on my desk
that I knew to be "original" cause I bought it new in 1965. It measured
3/4" up and 3/4" from the right side so I said that was "correct".
Then your message came up and said that yours was 3/4" up, and it was
only 5/8" in!! So I walked over to the shelves and measured three more.
ALL were 3/4" up, but they were 1/2", 5/8" and 3/4" from the right side
respectively!!

Well, now we have two measured as 3/4" in, two measured as 5/8" in, and
one as 1/2" in. If I was producing them, I'd have an "L" shaped guide
that was aligned with the lower right corner of the panel, spot on some
glue, and fit the badge in the corner. I would have guessed 3/4" and
3/4" for the design goal. It looks good. But perhaps Drake only had a
3/4" strip or ruler along the bottom and the horizontal placement was by
eye? Or since I "know" my 3/4" unit is "original", that's correct and
the others have been removed and re-installed over the years?

Or, and this is most likely, we're all just nuts for worrying about
something like this!

Nahhh, that _couldn't_ be it.........

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dean Hemphill wrote:
> On my MS-4, the logo is 3/4" up from the lower edge of the panel, and
> 5/8" in from the right side. I wonder if there just isn't an "exact"
> location, but more like an approximate location. Hmmm...
>
> 73,
> Dean K5DH
>
> --- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
>> I just received a logo for my MS-4 that did not have one. Can someone
>> give me a measurement from, say, the lower right inside corner of the
>> cabinet to the lower right corner of the logo so I can properly
>> register it?
>>
>> Tnx,
>>

>> Dale W4OP
>>
>>
>

1154. Re: [DrakeRadio] Re: T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 19:06:50 UTC
From: Garey Barrell
Topic: 1149 Message: 1154

Wink -

Mike has had some good suggestions.

Do you get the same results in TUNE mode in both USB and LSB?

I would suggest checking R44 for value and condition.

The GAIN control in CW mode applies a DC current to the diodes in the Balanced Modulator to unbalance it and let the carrier oscillator signal through. This current is supplied via R104, a 2.2M resistor. This resistor is prone to increasing in value, limiting the current that can be applied to the BM.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Hi Mike -
> Yes, Neutralization is fine -- The finals were
> relaced about 2 years ago and, I still get
> full power out on 30meters.Also changed the Driver tube.
> I guess some component has changed value but I don't
> know where to look.
>
> Wink
>
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>> Hello Wink,
>>
>> You said you did a re-align and peaked the output on inj and
>>
> trmmers.
>
>> Did you perform any additional alignment adjustments other than the
>> RF and Injection trimmer adjustments?
>>
>> A complete alignment consist of more than just adjusting the RF and
>> Injection trimmers on the left side of the T4XC. Aging components,
>> including tubes, can affect the overall T4XC alignment which will
>> ultimately contribute to a change (reduction) in the final
>> amplifier's output.

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>> Have the final amplifier tubes been replaced recently? If so did
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>
>> check the final amplifier to see if it needs to be neutralized? The
>> level of output from the final amplifier will be affected if the
>> final amplifier is not neutralized.
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>> The key is for maximum final amplifier RF output to occur at the
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>> control. If you adjust the PLATE control either side of minimum
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> plate
>
>> current in TUNE or CW mode and the output increases significantly,
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>> Mike
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>> --- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@> wrote:
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>>> Low output on 80/40 and 20m in the XCW position.
>>> But in the TUNE position it is fine.
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>>> this is all I get.
>>> 40m TUNE 140 W XCW 90/100 W
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>>>
>>> This is with the XMTR GAIN control wide open . It used to
>>> put out 140w on all bands now, just 30 meters..
>>>
>>> Any ideas?
>>>
>>> Thanks

```
>>> Wink
>>>
```

1155. Re: [DrakeRadio] Re: MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 19:11:46 UTC
From: Jose V. Gavila
Topic: 1123 Message: 1155

Hello!

I have three MS-4... and each has the label at a different horizontal position!. Looking at it, I guess they just put the label tangent to the third hole row, upper part, and then, 'more or less' about 12mm from right side.

All in all, not a great deal... but we are this way ;-)

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1156. RE: [DrakeRadio] Re: MS-4 Logo PLacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 21:35:19 UTC
From: Walter Milton
Topic: 1123 Message: 1156

Well Garey,

You got me thinking, so I went and checked mine out. One is 3/4" in by 5/8"in and the other is 3/4" in by 1/2" in. So where do we go from here? It look like 3/4" in. in is standard but the height can vary from 1/2 to 3/4" in.

Walt. , KA2NJF
Psalm 1
A child of the living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, September 17, 2008 2:45 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: MS-4 Logo PLacement

Dean -

When this question was originally posted, I looked at the one on my desk that I knew to be "original" cause I bought it new in 1965. It measured 3/4" up and 3/4" from the right side so I said that was "correct". Then your message came up and said that yours was 3/4" up, and it was only 5/8" in!! So I walked over to the shelves and measured three more. ALL were 3/4" up, but they were 1/2", 5/8" and 3/4" from the right side respectively!!

Well, now we have two measured as 3/4" in, two measured as 5/8" in, and one as 1/2" in. If I was producing them, I'd have an "L" shaped guide that was aligned with the lower right corner of the panel, spot on some glue, and fit the badge in the corner. I would have guessed 3/4" and 3/4" for the design goal. It looks good. But perhaps Drake only had a 3/4" strip or ruler along the bottom and the horizontal placement was by eye? Or since I "know" my 3/4" unit is "original", that's correct and the others have been removed and re-installed over the years?

Or, and this is most likely, we're all just nuts for worrying about something like this!

Nahhh, that _couldn't_ be it.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dean Hemphill wrote:
> On my MS-4, the logo is 3/4" up from the lower edge of the panel, and
> 5/8" in from the right side. I wonder if there just isn't an "exact"
> location, but more like an approximate location. Hmmm...
>
> 73,
> Dean K5DH
>
> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com,
"Dale Parfitt" <parinc1@...> wrote:
>
>> I just received a logo for my MS-4 that did not have one. Can someone
>> give me a measurement from, say, the lower right inside corner of the
>> cabinet to the lower right corner of the logo so I can properly
>> register it?
>>
>> Tnx,
>>
>> Dale W4OP
>>
>>
>

[Non-text portions of this message have been removed]

1157. DRake TC-6/SC-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 21:36:52 UTC
From: DALE PARFITT
Topic: 1157 Message: 1157

Were these TX and RX converters ever used on the TR-4 series? I seem to recall the conversion on the 4 line separates was a bit involved but don't ever recall the possibility of them being used with the TR-4.
BTW, Currently, there is a TR-6 with CW and AM filters + NB being advertised on QTH if anyone is interested.

Dale W4OP

1158. Re: [DrakeRadio] DRake TC-6/SC-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-17 22:03:47 UTC
From: Garey Barrell
Topic: 1157 Message: 1158

Dale -

Yes, the VHF converters were used with the TR-4 and TR-4C.

Drake offered a kit for the TR-4 that included a plate for the "open"
area at the back of the TR-4 to mount the six phono jacks required.
It's just a flat panel cut out to fit over the left side of the
chassis. The TR-4C already had a panel installed in this area, punched
and marked for the conversion.

It's not a particularly difficult mod to perform, essentially just
disable the screen supply to the Final, tap a small amount of 20M RF off
of the Driver stage, and couple the converter output to the receive antenna.

I have a copy of the mod instructions on my TR-4/C CDs or can send them
to anyone who wants them.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> Were these TX and RX converters ever used on the TR-4 series? I seem to
> recall the conversion on the 4 line separates was a bit involved but don't
> ever recall the possibility of them being used with the TR-4.
> BTW, Currently, there is a TR-6 with CW and AM filters + NB being advertised
> on QTH if anyone is interested.
>
> Dale W4OP
>
>

1159. Re: [DrakeRadio] DRake TC-6/SC-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-18 00:00:29 UTC
From: DALE PARFITT
Topic: 1157 Message: 1159

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, September 17, 2008 6:03 PM
Subject: Re: [DrakeRadio] DRake TC-6/SC-6

Hi Garey,
I was driving myself crazy- because I knew I had seen a Drake VHF Mod somewhere, but could not find it on the Internet.
When you mentioned your CD- it was obvious! Thanks for the reminder. I guess now, the most difficult part will be finding a TC-6. I've seen SC-6's and even owned one (may still), but I don't ever recall seeing a TC-6 in captivity.

73,

Dale W4OP

[Non-text portions of this message have been removed]

1160. Re: T-4XC OUTPUT PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-18 13:37:08 UTC
From: tnham63
Topic: 1149 Message: 1160

Garey -
Yes same results in TUNE LSB and USB.
I have located R44 and R104 (thanks to your CD)
And I will try to test them this weekend.
73
Wink
>
> Wink -
>
> Mike has had some good suggestions.
>
> Do you get the same results in TUNE mode in both USB and LSB?
>
> I would suggest checking R44 for value and condition.
>
> The GAIN control in CW mode applies a DC current to the diodes in
the
> Balanced Modulator to unbalance it and let the carrier oscillator
signal
> through. This current is supplied via R104, a 2.2M resistor. This
> resistor is prone to increasing in value, limiting the current that
can
> be applied to the BM.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> tnham63 wrote:
> > Hi Mike -
> > Yes, Neutralization is fine -- The finals were
> > relaced about 2 years ago and, I still get
> > full power out on 30meters.Also changed the Driver tube.
> > I guess some component has changed value but I don't
> > know where to look.
> >
> > Wink
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >

> >> Hello Wink,
> >>
> >> You said you did a re-align and peaked the output on inj and
> >>
> > trmmers.
> >
> >> Did you perform any additional alignment adjustments other than
the
> >> RF and Injection trimmer adjustments?
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> >> A complete alignment consist of more than just adjusting the RF
and
> >> Injection trimmers on the left side of the T4XC. Aging
components,
> >> including tubes, can affect the overall T4XC alignment which
will
> >> ultimately contribute to a change (reduction) in the final
> >> amplifier's output.
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> >> Have the final amplifier tubes been replaced recently? If so did
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> >> check the final amplifier to see if it needs to be neutralized?
The
> >> level of output from the final amplifier will be affected if the
> >> final amplifier is not neutralized.
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> >> The key is for maximum final amplifier RF output to occur at the
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> >> time that minimum plate current (dip) occurs when adjusting the
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> > PLATE
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> >> control. If you adjust the PLATE control either side of minimum
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> > plate
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> >> current in TUNE or CW mode and the output increases
significantly,
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> >
> >> to 20 watts for example, then the final needs to be neutralized.
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> >> 73
> >> Mike
> >> W5RKL

> >>
> >>
> >> --- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@> wrote:
> >>
> >>> My T-4XC has developed a problem.
> >>> Low output on 80/40 and 20m in the XCW position.
> >>> But in the TUNE position it is fine.
> >>> I did a re-align and peaked the output on inj and trimmers, but
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> >>> 80M TUNE 140 W XCW 100 W
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> >>> This is with the XMTR GAIN control wide open . It used to
> >>> put out 140w on all bands now, just 30 meters..
> >>>
> >>> Any ideas?
> >>>
> >>> Thanks
> >>> Wink
> >>>
>

1161. Re: MS-4 Logo Placement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-18 14:43:00 UTC
From: Garey Barrell
Topic: 1123 Message: 1161

OK guys, here's the _REAL_ answer!!

From our friend Bill Frost at Drake. (Still!) :-)

"""""""

Hello Garey,

NEWS FLASH !!!!

I was talking to one of the guys here and mentioned our conversation about
the MS-4 name plate placement. He said "I'll ask my wife, she was on the
MS-4 production line and put on the name plates", so he called her and ask
how she put on the MS-4 logo. She said they just tried to get it squarely
in the corner, they didn't use a gauge of any sort.

So, depending on the vintage and the girl that was putting on the name plate
and her frame of mind ....

73, Bill

"""""""""

One more mystery resolved....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

>

1162. Drake TC-6 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-18 15:46:28 UTC
From: DALE PARFITT
Topic: 1162 Message: 1162

I thought I'd start here to see if anyone is willing to sell a TC-6. Even if not, have there been enough that have exchanged hands to set a ballpark price?

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1163. Re: [DrakeRadio] Drake TC-6 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-18 17:38:02 UTC
From: Garey Barrell
Topic: 1162 Message: 1163

Dale -

I've seen only a very few sold. Seems like they were in the $300 - 350
range.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I thought I'd start here to see if anyone is willing to sell a TC-6. Even if not, have there been enough that have exchanged hands to set a ballpark price?
>
> Tnx,
>
> Dale W4OP
>

1164. TR7 Weak RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-19 17:07:08 UTC
From: Al Scanandoah
Topic: 1164 Message: 1164

Hi

I'm new to the group, and decided to join after acquiring a TR7 in rough condition.

For now, I'm just trying to get the RX going. I'm seeing sensitivity on the order of -80 dBm. I injected the same level signal to the input of the up-converter board and got the same result, so the path from the rear panel is OK.

I can inject less signal into to input of the the IF filter board, and the signal is rock-solid, so it looks like I'm losing ~45 dB somewhere between the input of the up-converter and input of the filter board.

Has anyone experienced anything like this? If so, to what was the problem attributed?

73 - Al, K2ZN

1165. Newbie Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-19 17:14:07 UTC
From: jch39_99
Topic: 1165 Message: 1165

I am an old ham ... always wanted a Drake rig, but never got one.
I work 99% CW and would like to get a Drake rig ... thinking of TR4-CW xcvr. Good choice, Bad Choice ... for CW. What kinda of power supply would I need to get? Not really wanting separate RX and TX.
Suggestions? Thoughts?
73/Crit/K4BXN

1166. RE: [DrakeRadio] TR7 Weak RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-19 17:32:16 UTC
From: Keith R. Erickson
Topic: 1164 Message: 1166

Look for a lead shorted to ground.

I speak from experience

73

K0GNW Keith

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Al Scanandoah
Sent: Friday, September 19, 2008 12:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR7 Weak RX

Hi

I'm new to the group, and decided to join after acquiring a TR7 in rough condition.

For now, I'm just trying to get the RX going. I'm seeing sensitivity on the order of -80 dBm. I injected the same level signal to the input of the up-converter board and got the same result, so the path from the rear panel is OK.

I can inject less signal into to input of the the IF filter board, and the signal is rock-solid, so it looks like I'm losing ~45 dB somewhere between the input of the up-converter and input of the filter board.

Has anyone experienced anything like this? If so, to what was the problem attributed?

73 - Al, K2ZN

[Non-text portions of this message have been removed]

1167. Re: [DrakeRadio] Newbie Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-19 18:45:06 UTC
From: Garey Barrell
Topic: 1165 Message: 1167

Crit -

From another 99% CW op....

You would be _***MUCH***_ happier with a good B Line pair. The B Line pair has four selectivity positions and a Noise Blanker standard. It has L/C filters which I prefer for CW, UNLESS you want to operate during a major contest on the low bands. A C Line pair is good too, but needs at least the (optional) 500 Hz filter. The NB is another (expensive) option for the C Line if you need/want it.

in my opinion, NO transceiver of that era was a "good" choice for CW. The TR-4CwRIT comes the closest. RIT is a must.

Either setup will work best with an AC-4 Power Supply.

The TR-7 does a good job, but is better still with the R-7 in transceive. And is a solid state product. It's one of the last "repairable" solid state transceivers that uses second-source parts throughout. Again, filters other than the standard 2.3 kHz are optional, as is the NB.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> I am an old ham ... always wanted a Drake rig, but never got one.
> I work 99% CW and would like to get a Drake rig ... thinking of TR4-CW
> xcvr. Good choice, Bad Choice ... for CW. What kinda of power supply
> would I need to get? Not really wanting separate RX and TX.
> Suggestions? Thoughts?
> 73/Crit/K4BXN
>
>

1168. Match for R4A Transmit transceive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-19 20:31:55 UTC
From: kd5aq
Topic: 1168 Message: 1168

I am looking for a fixer upper either the TX-4 or Tr-4 to match my R4A. I don't want to spend a lot of money . I have some Drake gear like L4-B and MN-200 and R4A so just looking for something that needs paint ECT. It will not ever be my main rig just fun to work on.
Ron

1169. Re: [DrakeRadio] TR7 Weak RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 00:53:35 UTC
From: Al Scanandoah
Topic: 1164 Message: 1169

Thanks, Keith

I'm hoping to delve into it this weekend. I did notice that a few
component leads on several boards seemed to be rather poorly trimmed.

Al

Keith R. Erickson wrote:
> Look for a lead shorted to ground.
>
>
>
> I speak from experience
>
>
>
> 73
>
>
>
> K0GNW Keith
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Al Scanandoah
> Sent: Friday, September 19, 2008 12:07 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] TR7 Weak RX
>
>
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> Hi
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> 73 - Al, K2ZN
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1170. RE: [DrakeRadio] TR7 Weak RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 00:56:49 UTC
From: Keith R. Erickson
Topic: 1164 Message: 1170

Al,

Took me several years to finally find a problem with an AM detector on an R-7 because of an excess lead on a component.

Keith

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Al Scanandoah
Sent: Friday, September 19, 2008 7:54 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR7 Weak RX

Thanks, Keith

I'm hoping to delve into it this weekend. I did notice that a few component leads on several boards seemed to be rather poorly trimmed.

Al

Keith R. Erickson wrote:
> Look for a lead shorted to ground.
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> I speak from experience
>
>
>
> 73
>
>
>
> K0GNW Keith
>
>
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
On
> Behalf Of Al Scanandoah
> Sent: Friday, September 19, 2008 12:07 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] TR7 Weak RX
>
>
>

> Hi
>
> I'm new to the group, and decided to join after acquiring a TR7 in
> rough condition.
>
> For now, I'm just trying to get the RX going. I'm seeing sensitivity
> on the order of -80 dBm. I injected the same level signal to the input
> of the up-converter board and got the same result, so the path from
> the rear panel is OK.
>
> I can inject less signal into to input of the the IF filter board, and
> the signal is rock-solid, so it looks like I'm losing ~45 dB somewhere
> between the input of the up-converter and input of the filter board.
>
> Has anyone experienced anything like this? If so, to what was the
> problem attributed?
>
> 73 - Al, K2ZN
>
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1171. Re: [DrakeRadio] TR7 Weak RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 02:45:59 UTC
From: Don
Topic: 1164 Message: 1171

I would also check and clean the contacts on all the boards, as well as make sure the bandswitch is clean.

----- Original Message -----
From: Keith R. Erickson
To: DrakeRadio@yahoogroups.com
Sent: Friday, September 19, 2008 11:32 AM
Subject: RE: [DrakeRadio] TR7 Weak RX

Look for a lead shorted to ground.

I speak from experience

73

K0GNW Keith

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Al Scanandoah
Sent: Friday, September 19, 2008 12:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR7 Weak RX

Hi

I'm new to the group, and decided to join after acquiring a TR7 in rough condition.

For now, I'm just trying to get the RX going. I'm seeing sensitivity on the order of -80 dBm. I injected the same level signal to the input of the up-converter board and got the same result, so the path from the rear panel is OK.

I can inject less signal into to input of the the IF filter board, and the signal is rock-solid, so it looks like I'm losing ~45 dB somewhere between the input of the up-converter and input of the filter board.

Has anyone experienced anything like this? If so, to what was the problem attributed?

73 - Al, K2ZN

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1172. Re: Newbie Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 13:15:06 UTC
From: David Rose
Topic: 1165 Message: 1172

Crit,

I echo the sentiments of Gary that if you can get a T4XB/R4B combo you will simply enjoy working either cw/ssb with it. I have a Drake C Line that I have had for 20+ years and would not ever consider parting with it. I also have a TR4/RV4 xcvr and am planning to restore a R4B rcvr to use with the TR4 as an external rcvr. On most of these rigs, the AC4 p/s is best suited. If you look on QRZ.com, QTH.com or E-Ham.net you will see for sale any of the combos you have spoken of. Again like Gary has stated, the R4B has great filters and the noise blanker built-in where the TR4CW w/RIT or R$c rcvr do not and they are expensive even if you can find one. I've attached a couple of photos of my Drake hear. Good luck in your search for what I consider to be the best amateur equipment ever made in the Us.

73,

David Rose KW1V
Higganum, Ct.

kw1v@...

[Non-text portions of this message have been removed]

1173. Re: Newbie Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 13:41:05 UTC
From: jch39_99
Topic: 1165 Message: 1173

Tnx Garey for the info. Much appreciated.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> From another 99% CW op....
>
> You would be _***MUCH***_ happier with a good B Line pair. The B
Line
> pair has four selectivity positions and a Noise Blanker standard. It
> has L/C filters which I prefer for CW, UNLESS you want to operate
during
> a major contest on the low bands. A C Line pair is good too, but needs
> at least the (optional) 500 Hz filter. The NB is another (expensive)
> option for the C Line if you need/want it.
>
> in my opinion, NO transceiver of that era was a "good" choice for CW.
> The TR-4CwRIT comes the closest. RIT is a must.
>
> Either setup will work best with an AC-4 Power Supply.
>
> The TR-7 does a good job, but is better still with the R-7 in
> transceive. And is a solid state product. It's one of the last
> "repairable" solid state transceivers that uses second-source parts
> throughout. Again, filters other than the standard 2.3 kHz are
> optional, as is the NB.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

1174. Drake W4 Dimensions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 19:50:03 UTC
From: DALE PARFITT
Topic: 1174 Message: 1174

Can someone comment on whether the W4 is the same height as other C line gear? The manual says 6" while the C line TX, RX etc seem to be around 5.4". It is unclear whether the feet are taken into account.

Dale W4OP

1175. Re: Drake W4 Dimensions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 20:56:06 UTC
From: Tim Stotenburg
Topic: 1174 Message: 1175

Mine is 6 1/8" with feet, 5 3/8 without the feet.

Tim

1176. Re: [DrakeRadio] Re: Drake W4 Dimensions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-20 23:44:10 UTC
From: DALE PARFITT
Topic: 1174 Message: 1176

----- Original Message -----
From: Tim Stotenburg
To: DrakeRadio@yahoogroups.com
Sent: Saturday, September 20, 2008 4:56 PM
Subject: [DrakeRadio] Re: Drake W4 Dimensions

Mine is 6 1/8" with feet, 5 3/8 without the feet.

Tim

Thanks Tim,
Looks to be the same height as the 4 line rigs- which I would have expected
before I researched the catalog dimensions.

Dale W4OP

1177. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-22 12:19:54 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1177

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1178. Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-22 16:02:54 UTC
From: Joel
Topic: 1178 Message: 1178

Greetings to all,

I'm a newbee here, and I want to thank the moderator for approving my request for joining the Drake group.

I'm in need of both manuals (op/serv) for a Drake TR-7A rig that I'm trying to get back on air, this rig seems to be very solid in its constructions, except for those crazy flat head screws(geees a pain in the but to get started)

It has a faulty PSU and the display starts out crazy like 53.815.0 when it should be 3.815.0 then it settles down and show 3.815.0, then if I change to the higher bands
like 10,14, or 28 MHz it only shows the secone MHz digit, for example 0 for 10 MHz, 4 for 14 MHz, and 8 for 28 MHz, the band switch is also intermitant, I can fix that easy.

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.0/1684 - Release Date: 9/22/2008 6:39 AM

[Non-text portions of this message have been removed]

1179. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-22 23:43:44 UTC
From: Don
Topic: 1178 Message: 1179

http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm

----- Original Message -----
From: Joel
To: DrakeRadio@yahoogroups.com
Sent: Monday, September 22, 2008 10:02 AM
Subject: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Greetings to all,

I'm a newbee here, and I want to thank the moderator for approving my request for joining the Drake group.

I'm in need of both manuals (op/serv) for a Drake TR-7A rig that I'm trying to get back on air, this rig seems to be very solid in its constructions, except for those crazy flat head screws(geees a pain in the but to get started)

It has a faulty PSU and the display starts out crazy like 53.815.0 when it should be 3.815.0 then it settles down and show 3.815.0, then if I change to the higher bands
like 10,14, or 28 MHz it only shows the secone MHz digit, for example 0 for 10 MHz, 4 for 14 MHz, and 8 for 28 MHz, the band switch is also intermitant, I can fix that easy.

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.0/1684 - Release Date: 9/22/2008 6:39 AM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1180. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 15:55:01 UTC
From: Joel
Topic: 1178 Message: 1180

Hi Don,

Thanks for the link to the manual for the TR-7 is it the same for the TR-7A?
I suposed it's almost the same.

v44kai.....Joel.

----- Original Message -----
From: "Don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, September 22, 2008 6:43 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

>
>
> http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm
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> ----- Original Message -----
> From: Joel
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, September 22, 2008 10:02 AM
> Subject: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
>
>
> Greetings to all,
>
> I'm a newbee here, and I want to thank the moderator for approving my
> request for joining the Drake group.
>
> I'm in need of both manuals (op/serv) for a Drake TR-7A rig that I'm
> trying to get
> back on air, this rig seems to be very solid in its constructions, except
> for those crazy flat head screws(geees a pain in the but to get started)
>
> It has a faulty PSU and the display starts out crazy like 53.815.0 when
> it
> should be 3.815.0 then it settles down and show 3.815.0, then if I change
> to the higher bands
> like 10,14, or 28 MHz it only shows the secone MHz digit, for example 0
> for 10 MHz, 4 for

> 14 MHz, and 8 for 28 MHz, the band switch is also intermitant, I can fix
> that easy.
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> No virus found in this outgoing message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.169 / Virus Database: 270.7.0/1684 - Release Date: 9/22/2008
> 6:39 AM
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008
7:38 AM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008 7:38 AM

[Non-text portions of this message have been removed]

1181. TR7 Weak RX - Update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 16:41:24 UTC
From: Al Scanandoah
Topic: 1164 Message: 1181

The problem turned out to be the double-balanced mixer module.
Luckily, I had an SRA-3H in the junque box to at least get things up
and running. Now I'm pondering whether I should buy the correct mixer
(SRA-3MH+) or modify the LO to increase the drive to the '3H. Either
way, performance should be better than with the original mixer.

Al, K2ZN

1182. Looking for TR-7 Filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 16:43:21 UTC
From: Al Scanandoah
Topic: 1182 Message: 1182

Yes, I know I can purchase them from Inrad, but I figured I'd ask first. Does anyone have a 500 Hz CW filter and either a 4 or 6 kHz AM filter that needs a new home?

73 - Al, K2ZN

1183. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 17:22:25 UTC
From: Ken Burchfield
Topic: 1178 Message: 1183

Joel, this the best pages on the Drake , that I have seen on the web...
Check all his web site, much there!
This link should lead you to some of the differents in the TR7s
http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Comparison_Article/TR7_Idenity-01.htm
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

----- Original Message ----
From: Joel <v44kai@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 23, 2008 9:55:01 AM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Hi Don,

Thanks for the link to the manual for the TR-7 is it the same for the TR-7A?
I suposed it's almost the same.

v44kai.....Joel.

----- Original Message -----
From: "Don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, September 22, 2008 6:43 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

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> http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm
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[Non-text portions of this message have been removed]

1184. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 20:26:46 UTC
From: Joel
Topic: 1178 Message: 1184

Hi Ken,

Thanks for the link, but I have been there all day yesterday, and today looking through the the pile of info (lots of good stuff there) but no service manual for the TR-7A.

I have seen the difference between the models, I have the TR-7A and need the service manual to fix the display problem.

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 12:22 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel, this the best pages on the Drake , that I have seen on the web...
> Check all his web site, much there!
> This link should lead you to some of the differents in the TR7s
> http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Comparison_Article/TR7_Idenity-01.htm
> 73 Ken
>
> PacketRadio is Still
> Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
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> ----- Original Message ----
> From: Joel <v44kai@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, September 23, 2008 9:55:01 AM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
>
> Hi Don,
>
> Thanks for the link to the manual for the TR-7 is it the same for the
> TR-7A?
> I suposed it's almost the same.
>
> v44kai.....Joel.
>
>
> ----- Original Message -----

> From: "Don" <drfrasher@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, September 22, 2008 6:43 PM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
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>> http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008
7:38 AM

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Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008 7:38 AM

[Non-text portions of this message have been removed]

1185. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 19:46:08 UTC
From: Garey Barrell
Topic: 1178 Message: 1185

As usual, there is a LOT of misinformation on the internet..... For FREE!!

The Operating Manual is about 40 pages and there are several decent scans at various manual repositories.

The Service Manual, on the other hand, is almost 250 pages, with about 10% of them 11 x 17 size or larger. The "FREE" scan copies that I have been able to find, are the typical low resolution with blocked up photographs that are useless for service.

Obviously, just photocopying the Service Manual would easily run $30, (unless of course you can steal the use of your employer's copy machine,) and just scanning (or copying) the entire book would be a half-day project. Even printing out the CD at a copy center would cost well over $30.

I did find one decent scan on CD of the Service Manual on E* for $12 from WB3CEX. Even that one had all the oversize sheets displaying upside down in the Reader, but at least the photos were clear, aside from the Moire patterning caused by not using (or having) a 'descreen' filter.

Original Service Manuals show up often on E* for around $50, and are well worth the cost if you want a usable manual. It's hard to understand that someone would pay $600 for a piece of equipment and then think they should get service manuals for free.

By the way, there are two versions of the Service Manual, covering TR-7's below or above about s/n 6000

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1186. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 21:05:35 UTC
From: Ken Burchfield
Topic: 1178 Message: 1186

Joel,
Give this guy a try , he also has a wealth of info on Drake!!!!!!!!
http://www.ea1ddo.es/drake.html

Good luck.................73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

----- Original Message ----
From: Joel <v44kai@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 23, 2008 2:26:46 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Hi Ken,

Thanks for the link, but I have been there all day yesterday, and today
looking through the the pile of info (lots of good stuff there) but no
service manual for the TR-7A.

I have seen the difference between the models, I have the TR-7A and need the
service manual to fix the display problem.

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 12:22 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel, this the best pages on the Drake , that I have seen on the web...
> Check all his web site, much there!
> This link should lead you to some of the differents in the TR7s
> http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Comparison_Article/TR7_Idenity-01.htm
> 73 Ken
>
> PacketRadio is Still
> Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
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> ----- Original Message ----
> From: Joel <v44kai@...>
> To: DrakeRadio@yahoogroups.com

> Sent: Tuesday, September 23, 2008 9:55:01 AM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
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> Hi Don,
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> Thanks for the link to the manual for the TR-7 is it the same for the
> TR-7A?
> I suposed it's almost the same.
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> v44kai.....Joel.
>
>
> ----- Original Message -----
> From: "Don" <drfrasher@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, September 22, 2008 6:43 PM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
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>> http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008
7:38 AM

No virus found in this outgoing message.
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Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008 7:38 AM

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1187. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-23 21:13:42 UTC
From: Ken Burchfield
Topic: 1178 Message: 1187

Sorry guys forgot to cut the Junk off, on last
Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

----- Original Message ----
From: Joel <v44kai@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 23, 2008 2:26:46 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Hi Ken,

[Non-text portions of this message have been removed]

1188. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 01:15:45 UTC
From: Don
Topic: 1178 Message: 1188

about the only difference will be that that the TR7A will have all the filters adn such and the later sn# tr7 2nd ver board
otherwise, its the same.

----- Original Message -----
From: Joel
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 23, 2008 2:26 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Hi Ken,

Thanks for the link, but I have been there all day yesterday, and today
looking through the the pile of info (lots of good stuff there) but no
service manual for the TR-7A.

I have seen the difference between the models, I have the TR-7A and need the
service manual to fix the display problem.

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 12:22 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel, this the best pages on the Drake , that I have seen on the web...
> Check all his web site, much there!
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> http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Comparison_Article/TR7_Idenity-01.htm
> 73 Ken
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> PacketRadio is Still
> Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
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> ----- Original Message ----
> From: Joel <v44kai@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, September 23, 2008 9:55:01 AM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
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> Hi Don,

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> TR-7A?
> I suposed it's almost the same.
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> v44kai.....Joel.
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> ----- Original Message -----
> From: "Don" <drfrasher@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, September 22, 2008 6:43 PM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
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>> http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008
7:38 AM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com

Version: 8.0.169 / Virus Database: 270.7.1/1686 - Release Date: 9/23/2008 7:38 AM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1189. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:12:46 UTC
From: Joel
Topic: 1178 Message: 1189

Ok ken,
Thanks.

v44kai.....Joel.

----- Original Message -----
From: "Don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 8:15 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> about the only difference will be that that the TR7A will have all the
> filters adn such and the later sn# tr7 2nd ver board
> otherwise, its the same.
>
> ----- Original Message -----
> From: Joel
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, September 23, 2008 2:26 PM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
>
>
> Hi Ken,
>
> Thanks for the link, but I have been there all day yesterday, and today
> looking through the the pile of info (lots of good stuff there) but no
> service manual for the TR-7A.
>
> I have seen the difference between the models, I have the TR-7A and need
> the
> service manual to fix the display problem.
>
> v44kai.....Joel.

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1688 - Release Date: 9/24/2008 6:29 AM

[Non-text portions of this message have been removed]

1190. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:22:00 UTC
From: Joel
Topic: 1178 Message: 1190

Oh yeah he got the service manual, and a ton of stuff, the manual is not as nice though, and the few drawings I needed are the missing pieces(that's what comes with the free world, teck what you get)

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 4:05 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel,
> Give this guy a try , he also has a wealth of info on Drake!!!!!!!!
> http://www.ea1ddo.es/drake.html
>
>
> Good luck.................73 Ken

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1688 - Release Date: 9/24/2008 6:29 AM

[Non-text portions of this message have been removed]

1191. 2B/BQ Rear feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:19:09 UTC
From: Joe
Topic: 1191 Message: 1191

my radio and Q-multiplier are missing their feet. Can anyone confirm if this is the correct feet or not for the rear 2 feet?
EBAY Link:
http://cgi.ebay.com/Drake-2-line-replacement-rear-feet_W0QQitemZ330272025870QQcmdZViewItem?hash=item330272025870&_trkparms=72%3A1205%7C39%3A1%7C66%3A2%7C65%3A12%7C240%3A1318&_trksid=p3286.c0.m14

1192. Re: [DrakeRadio] 2B/BQ Rear feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:49:53 UTC
From: Garey Barrell
Topic: 1191 Message: 1192

I don't have one available to check, but it sounds and looks right.

You can buy 100 pcs for $8 from McMaster-Carr, p/n 9544K34

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> my radio and Q-multiplier are missing their feet. Can anyone confirm
> if this is the correct feet or not for the rear 2 feet?
> EBAY Link:
> http://cgi.ebay.com/Drake-2-line-replacement-rear-
> feet_W0QQitemZ330272025870QQcmdZViewItem?
> hash=item330272025870&_trkparms=72%3A1205%7C39%3A1%7C66%3A2%7C65%3A12%
> 7C240%3A1318&_trksid=p3286.c0.m14
>
>
>

1193. Re: [DrakeRadio] 2B/BQ Rear feet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:53:59 UTC
From: N9JCQ@aol.com
Topic: 1191 Message: 1193

wow, thanks Garey. I need 5 (1 as back up if I screw things up). Any idea as to where to find front Feet. Bill Frost just told me those are hard to find.

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, 24 Sep 2008 9:49 am
Subject: Re: [DrakeRadio] 2B/BQ Rear feet

I don't have one available to check, but it sounds and looks right.

You can buy 100 pcs for $8 from McMaster-Carr, p/n 9544K34

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>;

Joe wrote:
> my radio and Q-multiplier are missing their feet. Can anyone confirm
> if this is the correct feet or not for the rear 2 feet?
> EBAY Link:
> http://cgi.ebay.com/Drake-2-line-replacement-rear-
> feet_W0QQitemZ330272025870QQcmdZViewItem?
> hash=item330272025870&_trkparms=72%3A1205%7C39%3A1%7C66%3A2%7C65%3A12%
> 7C240%3A1318&_trksid=p3286.c0.m14
>
>
>

1194. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 14:55:48 UTC
From: Ken Burchfield
Topic: 1178 Message: 1194

Joel,
Pse explain which dwgs U are looking for and just maybe I will find in my searches.
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

----- Original Message ----
From: Joel <v44kai@...>
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, September 24, 2008 8:22:00 AM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Oh yeah he got the service manual, and a ton of stuff, the manual is not as
nice though, and the few drawings I needed are the missing pieces(that's
what comes with the free world, teck what you get)

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 23, 2008 4:05 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel,
> Give this guy a try , he also has a wealth of info on Drake!!!!!!!!
> http://www.ea1ddo.es/drake.html
>
>
> Good luck.................73 Ken

-

[Non-text portions of this message have been removed]

1195. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 16:35:52 UTC
From: Joel
Topic: 1178 Message: 1195

They are as follow....digital control board (C3927W for the TR-7, and the C4396F for the TR-7A) and the AUX-7 board. I already got the DR7 the display board, now I need the digital control board drawings

v44kai.....Joel.

----- Original Message -----
From: "Ken Burchfield" <k5jxl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, September 24, 2008 9:55 AM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> Joel,
> Pse explain which dwgs U are looking for and just maybe I will find in my
> searches.
> 73 Ken
>
> PacketRadio is Still
> Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

---

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1688 - Release Date: 9/24/2008 6:29 AM

[Non-text portions of this message have been removed]

1196. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-24 16:56:11 UTC
From: Ken Burchfield
Topic: 1178 Message: 1196

Ok Joel, I will attempt to put that in my searches, Let you If I find any
73 Ken

PacketRadio is Still Alive.....Mississippi.....145.010.....Simplex.....1200 Baud

----- Original Message ----
From: Joel <v44kai@...>
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, September 24, 2008 10:35:52 AM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

They are as follow....digital control board (C3927W for the TR-7, and the
C4396F for the TR-7A) and the AUX-7 board. I already got the DR7 the
display board, now I need the digital control board drawings

v44kai.....Joel.

[Non-text portions of this message have been removed]

1197. L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 18:31:35 UTC
From: Walter Milton
Topic: 1197 Message: 1197

All,

I know have my Drake L-4B up and running but I'm experiencing what maybe a problem or not. After I get the amp tuned up on a band I noticed that when the AGC/Standby switch is pulled out. I lose receiver sensitivity. Is this normal? There is a soft key mod in the RF deck. Does this have anything to do with the lose of sensitivity. After transmitting if I push the switch in receiver sensitivity returns. Is this normal for the L-4B?? The amp operates as it should other then the receiver sensitivity lost. Has anyone experienced this problem and or know of a solution.

Thanks in advance,
Walt. , KA2NJF
Psalm 1
A child of the living God

[Non-text portions of this message have been removed]

1198. Re: T-4XC OUTPUT PROBLEM (FIXED)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 20:25:46 UTC
From: tnham63
Topic: 1149 Message: 1198

Thanks Garey -- It was R104 the 2.2 MOHM resistor.
Replace it and now I get full output. R44 checked OK
at 687 ohms..

Thanks again for your help.
73
Wink
WA8KOQ

> Garey -
> Yes same results in TUNE LSB and USB.
> I have located R44 and R104 (thanks to your CD)
> And I will try to test them this weekend.
> 73
> Wink
> >
> > Wink -
> >
> > Mike has had some good suggestions.
> >
> > Do you get the same results in TUNE mode in both USB and LSB?
> >
> > I would suggest checking R44 for value and condition.
> >
> > The GAIN control in CW mode applies a DC current to the diodes in
> the
> > Balanced Modulator to unbalance it and let the carrier oscillator
> signal
> > through. This current is supplied via R104, a 2.2M resistor.
This
> > resistor is prone to increasing in value, limiting the current
that
> can
> > be applied to the BM.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> >
> > tnham63 wrote:
> > > Hi Mike -

> > > Yes, Neutralization is fine -- The finals were
> > > relaced about 2 years ago and, I still get
> > > full power out on 30meters.Also changed the Driver tube.
> > > I guess some component has changed value but I don't
> > > know where to look.
> > >
> > > Wink
> > >
> > >
> > > --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >> Hello Wink,
> > >>
> > >> You said you did a re-align and peaked the output on inj and
> > >>
> > > trmmers.
> > >
> > >> Did you perform any additional alignment adjustments other
than
> the
> > >> RF and Injection trimmer adjustments?
> > >>
> > >> A complete alignment consist of more than just adjusting the
RF
> and
> > >> Injection trimmers on the left side of the T4XC. Aging
> components,
> > >> including tubes, can affect the overall T4XC alignment which
> will
> > >> ultimately contribute to a change (reduction) in the final
> > >> amplifier's output.
> > >>
> > >> Have the final amplifier tubes been replaced recently? If so
did
> > >>
> > > you
> > >
> > >> check the final amplifier to see if it needs to be
neutralized?
> The
> > >> level of output from the final amplifier will be affected if
the
> > >> final amplifier is not neutralized.
> > >>
> > >> The key is for maximum final amplifier RF output to occur at
the
> > >>
> > > same
> > >
> > >> time that minimum plate current (dip) occurs when adjusting

the
> > >>
> > > PLATE
> > >
> > >> control. If you adjust the PLATE control either side of
minimum
> > >>
> > > plate
> > >
> > >> current in TUNE or CW mode and the output increases
> significantly,
> > >>
> > > 10
> > >
> > >> to 20 watts for example, then the final needs to be
neutralized.
> > >>
> > >> 73
> > >> Mike
> > >> W5RKL
> > >>
> > >>
> > >> --- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@> wrote:
> > >>
> > >>> My T-4XC has developed a problem.
> > >>> Low output on 80/40 and 20m in the XCW position.
> > >>> But in the TUNE position it is fine.
> > >>> I did a re-align and peaked the output on inj and trimmers,
but
> > >>> this is all I get.
> > >>> 40m TUNE 140 W XCW 90/100 W
> > >>> 80M TUNE 140 W XCW 100 W
> > >>> 30M TUNE 150 W XCW 150 W (THIS BAND IS FINE)
> > >>> 20M TUNE 140 W XCW 100 W
> > >>>
> > >>> This is with the XMTR GAIN control wide open . It used to
> > >>> put out 140w on all bands now, just 30 meters..
> > >>>
> > >>> Any ideas?
> > >>>
> > >>> Thanks
> > >>> Wink
> > >>>
> > >
>

1199. L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 20:35:38 UTC
From: Walter Milton
Topic: 1197 Message: 1199

All,

Some updated information on the problem I am experiencing with the L-4B. After turning the unit on and waiting 3 minuets. I notice that when I pull the standby switch out the plate amp. Meter needle moves from zero (0) to 0.1 amps and the receive sensitivity drops. Is this normal operation for the L-4B? When the standby switch is pushed in the meter returns to zero and I have full receive sensitivity.

Again thanks for the help and suggestions.
Walt. , KA2NJF
Psalm 1
A child of the living God

[Non-text portions of this message have been removed]

1200. Re: [DrakeRadio] L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 21:19:57 UTC
From: K5VSE
Topic: 1197 Message: 1200

Pull the relay control cable. You have a short in either the cable, or in the transmitter. What you are seeing is the idling current.

Mike-K5VSE

[Non-text portions of this message have been removed]

1201. Re: [DrakeRadio] L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 21:24:56 UTC
From: K5VSE
Topic: 1197 Message: 1201

One other thought, if you are using the two pin original Drake plug, reverse only one end of it. All the relay control does is take one side to ground, and with the plugs not matching, you will get the results you describe. The loss of receiver sensitivity is because the antenna relay in the amp is open in the transmit condition.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1202. RE: [DrakeRadio] L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 21:37:36 UTC
From: Walter Milton
Topic: 1197 Message: 1202

Mike,

Yes, I am using the original two pin Drake Plug. On switching the plug and pulling out the standby switch .. All is as it should be. THANKS that fixed the problem.

Walt. , KA2NJF
Psalm 1
A child of the living God

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of K5VSE
Sent: Sunday, September 28, 2008 5:25 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] L-4B PROBLEM

One other thought, if you are using the two pin original Drake plug, reverse
only one end of it. All the relay control does is take one side to ground, and with the plugs not matching, you will get the results you describe. The

loss of receiver sensitivity is because the antenna relay in the amp is open
in the transmit condition.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members. <http://members.tripod.com/~sjsharks/index.html> tripod.com/~sjsharks/index.html
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APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1203. Re: [DrakeRadio] L-4B PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-28 21:52:11 UTC
From: K5VSE
Topic: 1197 Message: 1203

Glad to be of help. I marked the plug on my amp as to which side is ground.
Makes it simple when for some reason I need to disconnect the amp.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1204. Bar knobs 4 series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 16:30:34 UTC
From: Victor Waddington
Topic: 1204 Message: 1204

Hello all
I seem to be having a problem contacting KC9YS re bar knobs. Sent a couple of emails but no joy. I don't know if he is a member of this group but if he is (you are) can you drop me a line and let me know if you still have some available.
73
Vic Waddington

1205. Re: [DrakeRadio] Bar knobs 4 series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 17:35:36 UTC
From: Garey Barrell
Topic: 1204 Message: 1205

Vic -

I thought you had gotten in touch with Al re these knobs. He said he had heard from someone in England and had replied.

I have forwarded your message to him. He DOES have the bar knobs available, and you should hear from him shortly. If you don't please email me again and we'll get you in touch!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello all
> I seem to be having a problem contacting KC9YS re bar knobs. Sent a
> couple of emails but no joy. I don't know if he is a member of this
> group but if he is (you are) can you drop me a line and let me know
> if you still have some available.
> 73
> Vic Waddington
>
>
>

1206. Tube Subs for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 17:48:54 UTC
From: tnham63
Topic: 1206 Message: 1206

What is a good sub for the 6HS6 and 6EH6 in my
newly acquired R-4?
Tnx
73
Wink
Wa8koq

1207. Re: [DrakeRadio] Tube Subs for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 19:02:37 UTC
From: Garey Barrell
Topic: 1206 Message: 1207

Wink -

The best "subs" are a 6HS6 and a 6EH5. Both are readily available from many tube dealers, although the 6HS6 has become pretty pricey. It was a very "late" tube, and as a result was not made in the huge quantities of the earlier types. It is an excellent mixer, and really sets the performance of the receiver. You only need one, bite the bullet. It should last the rest of the life of the receiver.

That said, the 6AH6 is a reasonable sub. There are a few other tubes that are as good as the 6HS6, but they have a different base and so would require some rewiring.

The 6EH5 is a tube with good output at low plate voltages. Again, there are some equivalents, but not with the same basing. But this tube is plentiful and cheap, so no reason to sub.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> What is a good sub for the 6HS6 and 6EH6 in my
> newly acquired R-4?
> Tnx
> 73
> Wink
> Wa8koq
>
>

1208. TR-7 and Key Clicks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 19:32:24 UTC
From: jch39_99
Topic: 1208 Message: 1208

I am eagerly awaiting the arrival of a TR-7 and am doing as much reading in preparation of the blessed event. I have noticed an article about resolving Key Clicks. Is this a significant issue? I operate 99% CW and while not the best CW operator in the world I don't want to be accused of running a Yaesu. Your thoughts on key clicks and any other CW issues for the TR-7.
73/Crit/K4BXN

1209. TR-7A first digit in 14, 21, and 28 MHz

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-29 21:15:58 UTC
From: v44kai
Topic: 1209 Message: 1209

Hi to all,

First I must say thanks to all on the group, for helping me find the manuals I needed for the TR-7A, especially Garey, who sent me the schematics I needed that were missing from the service manual I downloaded (that what you get in the free world, take what you get, it's free hi hi).

Just to update all, I started work on the TR-7A, thus far I have soldered most of the joints associated with D1 and make a few IC swaps and, changes those that I have in stock. The results are the same.

I also switch Q9005 and Q9006 collectors ensure that D1 is good, the result was D1 is good except segment (e) is no good (I don't think that will matter much, does it!).

I also realized when I put the counter switch to EXT, instead of getting six zero's I get 90000.0 (because segment (e) is bad) but is really 80000.0 In this mode all the digits changes except the left-most one. (This the way it was before I started working on it).

This may put a twist on my problem, to those familiar with repairing this rig.
All suggestions are welcome.

v44kai.....Joel.

[Non-text portions of this message have been removed]

1210. R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 00:08:38 UTC
From: captcurt2000
Topic: 1210 Message: 1210

Good evening guys. My trusty old r4a has developed anissue. pretty much all original (tubes even). I recently paralleled caps for the PS since it is old. I've been using it lately and it seemed fine except for a low level 60Hz hum comming thru the audio with no difference from the level control or stby, etc. I went in again and checked all of the small electrolytics and they all checked good but I replaced them anyway. The 2 10uF-25V in the audi amp stage and also the 8uF -bias supply.

When I was done, I re-aligned the sensitivity and S meter zero and buttoned it up. Now the audio is weak and the 6EH5 has a red plate. I've double checked the three replacement caps several times, replaced the tube, and checked all the voltages. They all are very close to the chart.

It really resembles an un-neutralized final the way it is running. A scope shows nothing strange on the cathode, and the signal is there like it should be and controllable. When I scope the plate side however, there is a very large AC signal there regardless of input. It is several volts and roughly triangular. There is also a very large RC-type triangular ripple on that section of the PS.

ITs like the tube is oscillating at 120hz but that is not translating to a loud output--so it is just in the plate side???

The primary winding of the output transformer measures about 240 ohms. and the feedback cap is good.

Anyone seen this before? Any hints?

Thanks and Regards.

Curt

KU8L

1211. Re: [DrakeRadio] R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 01:24:43 UTC
From: radiomanL
Topic: 1210 Message: 1211

check C86 (.005 mfd 600 vdc) coupling capacitor . look for a high positive DC voltage on the signal grid .
andrew
----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Monday, September 29, 2008 6:08 PM
Subject: [DrakeRadio] R-4A audio Stage Problem

Good evening guys. My trusty old r4a has developed anissue. pretty much all original (tubes even). I recently paralleled caps for the PS since it is old. I've been using it lately and it seemed fine except for a low level 60Hz hum comming thru the audio with no difference from the level control or stby, etc. I went in again and checked all of the small electrolytics and they all checked good but I replaced them anyway. The 2 10uF-25V in the audi amp stage and also the 8uF -bias supply.

When I was done, I re-aligned the sensitivity and S meter zero and buttoned it up. Now the audio is weak and the 6EH5 has a red plate. I've double checked the three replacement caps several times, replaced the tube, and checked all the voltages. They all are very close to the chart.

It really resembles an un-neutralized final the way it is running. A scope shows nothing strange on the cathode, and the signal is there like it should be and controllable. When I scope the plate side however, there is a very large AC signal there regardless of input. It is several volts and roughly triangular. There is also a very large RC-type triangular ripple on that section of the PS.

ITs like the tube is oscillating at 120hz but that is not translating to a loud output--so it is just in the plate side???

The primary winding of the output transformer measures about 240 ohms. and the feedback cap is good.

Anyone seen this before? Any hints?

Thanks and Regards.

Curt

KU8L

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.5/1698 - Release Date: 9/29/2008 7:25 PM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.5/1698 - Release Date: 9/29/2008 7:25 PM

[Non-text portions of this message have been removed]

1212. Re: [DrakeRadio] Tube Subs for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 00:38:26 UTC
From: Tim Kass
Topic: 1206 Message: 1212

You can also sub 6AU6A's I think. Heathkit did this in their later versions of the SB102 and similar Heaths, a common sub for the Heath was the 6HS6...lower noise level, great for mixer circuits..that was the big reason in the S/N improvements from the SB-100 series to the SB-102. etc....but check the schematic first to see if the circuits are similar...good luck

73, Tim K8WBL

"I Need Mo Powa, Cap'n!"

--- On Mon, 9/29/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@mindspring.com>
Subject: Re: [DrakeRadio] Tube Subs for R-4
To: DrakeRadio@yahoogroups.com
Date: Monday, September 29, 2008, 3:02 PM

Wink -

The best "subs" are a 6HS6 and a 6EH5. Both are readily available from many tube dealers, although the 6HS6 has become pretty pricey. It was a very "late" tube, and as a result was not made in the huge quantities of the earlier types. It is an excellent mixer, and really sets the performance of the receiver. You only need one, bite the bullet. It should last the rest of the life of the receiver.

That said, the 6AH6 is a reasonable sub. There are a few other tubes that are as good as the 6HS6, but they have a different base and so would require some rewiring.

The 6EH5 is a tube with good output at low plate voltages. Again, there are some equivalents, but not with the same basing. But this tube is plentiful and cheap, so no reason to sub.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> What is a good sub for the 6HS6 and 6EH6 in my
> newly acquired R-4?
> Tnx
> 73
> Wink
> Wa8koq
>

>

[Non-text portions of this message have been removed]

1213. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 00:46:45 UTC
From: mark helinski
Topic: 1178 Message: 1213

dear joel
i have a service manual askin 30.00 plus shipping great shape.
mark helinski

--- On Wed, 9/24/08, Ken Burchfield <k5jxl@...> wrote:

From: Ken Burchfield <k5jxl@...>
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
To: DrakeRadio@yahoogroups.com
Date: Wednesday, September 24, 2008, 11:56 AM

Ok Joel, I will attempt to put that in my searches, Let you If I find any
73 Ken

PacketRadio is Still Alive..... Mississippi. .....145. 010..... .Simplex. .....1200 Baud

----- Original Message ----
From: Joel <v44kai@caribsurf. com>
To: DrakeRadio@yahoogro ups.com
Sent: Wednesday, September 24, 2008 10:35:52 AM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

They are as follow....digital control board (C3927W for the TR-7, and the
C4396F for the TR-7A) and the AUX-7 board. I already got the DR7 the
display board, now I need the digital control board drawings

v44kai.....Joel.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1214. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 00:48:01 UTC
From: mark helinski
Topic: 1178 Message: 1214

dear joe
i have one 30.00 plus shipping
mark hl

--- On Wed, 9/24/08, Joel <v44kai@...> wrote:

From: Joel <v44kai@...>
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
To: DrakeRadio@yahoogroups.com
Date: Wednesday, September 24, 2008, 9:12 AM

Ok ken,
Thanks.

v44kai.....Joel.

----- Original Message -----
From: "Don" <drfrasher@pmt. org>
To: <DrakeRadio@yahoogro ups.com>
Sent: Tuesday, September 23, 2008 8:15 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> about the only difference will be that that the TR7A will have all the
> filters adn such and the later sn# tr7 2nd ver board
> otherwise, its the same.
>
> ----- Original Message -----
> From: Joel
> To: DrakeRadio@yahoogro ups.com
> Sent: Tuesday, September 23, 2008 2:26 PM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
>
>
> Hi Ken,
>
> Thanks for the link, but I have been there all day yesterday, and today
> looking through the the pile of info (lots of good stuff there) but no
> service manual for the TR-7A.
>
> I have seen the difference between the models, I have the TR-7A and need
> the
> service manual to fix the display problem.
>
> v44kai.....Joel.

No virus found in this outgoing message.
Checked by AVG - http://www.avg. com
Version: 8.0.169 / Virus Database: 270.7.1/1688 - Release Date: 9/24/2008 6:29 AM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1215. Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 02:18:15 UTC
From: v44kai
Topic: 1178 Message: 1215

Thank you mark, but I got the manuals already.

v44kai.....Joel.

----- Original Message -----
From: "mark helinski" <marksbuffalobills@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, September 29, 2008 7:46 PM
Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)

> dear joel
> i have a service manual askin 30.00 plus shipping great shape.
> mark helinski
>
> --- On Wed, 9/24/08, Ken Burchfield <k5jxl@...> wrote:
>
> From: Ken Burchfield <k5jxl@...>
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
> To: DrakeRadio@yahoogroups.com
> Date: Wednesday, September 24, 2008, 11:56 AM
>
>
>
>
>
>
> Ok Joel, I will attempt to put that in my searches, Let you If I find any
> 73 Ken
>
> PacketRadio is Still Alive..... Mississippi. ......145. 010......
> .Simplex. ......1200 Baud
>
> ----- Original Message ----
> From: Joel <v44kai@caribsurf. com>
> To: DrakeRadio@yahoogro ups.com
> Sent: Wednesday, September 24, 2008 10:35:52 AM
> Subject: Re: [DrakeRadio] Drake TR-7A manuals needed (OP / SERV both)
>
> They are as follow....digital control board (C3927W for the TR-7, and the
> C4396F for the TR-7A) and the AUX-7 board. I already got the DR7 the
> display board, now I need the digital control board drawings
>
> v44kai.....Joel.
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1216. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 13:43:05 UTC
From: captcurt2000
Topic: 1210 Message: 1216

Thanks Andreww:

Nope..all of the tube DC voltages look fine--0 on the grid, 3.5 on cathode.

I've put everything back the way it was now ex for the 4 main PS electrolytics.

Doesn't seem like there could be a huge current draw event going on to make the plate glow red and still keep the cathode voltage correct across the cathode-to-ground feedback/bias resistor.

I'm kinda stumped at this point.

Suggestions welcomed.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, "radiomanL" <radiomanl@...> wrote:
>
> check C86 (.005 mfd 600 vdc) coupling capacitor . look for a high positive DC voltage on the signal grid .
> andrew
>

1217. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 13:58:46 UTC
From: Garey Barrell
Topic: 1210 Message: 1217

Curt -

You're missing something.... We _assume_ you have subbed another 6EH5!? IF there is 3.5V on the cathode, and 0V on the grid, a good tube "should" be operating with about 40 mA of plate current which is about right for Class A operation. The fact that the plate is red under these conditions says that the current is NOT going through the cathode. The power is not being coupled OUT effectively. The other problem is that R43 is marginal, and will not support much over the expected Class A current. I would suspect a short in the output, possibly C175 or a shorted output transformer, primary or secondary.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Thanks Andreww:
>
> Nope..all of the tube DC voltages look fine--0 on the grid, 3.5 on
> cathode.
>
> I've put everything back the way it was now ex for the 4 main PS
> electrolytics.
>
> Doesn't seem like there could be a huge current draw event going on to
> make the plate glow red and still keep the cathode voltage correct
> across the cathode-to-ground feedback/bias resistor.
>
> I'm kinda stumped at this point.
>
> Suggestions welcomed.
>
> Curt
>
> KU8L
>
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, "radiomanL" <radiomanl@...> wrote:
>
>> check C86 (.005 mfd 600 vdc) coupling capacitor . look for a high

>>
> positive DC voltage on the signal grid .
>
>> andrew
>>
>>
>

1218. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 15:03:30 UTC
From: radiomanL
Topic: 1210 Message: 1218

check the plate voltage , if it is 0 the screen will take all the current and will be glowing . another possibility is that you just have a bad tube .
andrew
----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 30, 2008 7:43 AM
Subject: [DrakeRadio] Re: R-4A audio Stage Problem

Thanks Andreww:

Nope..all of the tube DC voltages look fine--0 on the grid, 3.5 on cathode.

I've put everything back the way it was now ex for the 4 main PS electrolytics.

Doesn't seem like there could be a huge current draw event going on to make the plate glow red and still keep the cathode voltage correct across the cathode-to-ground feedback/bias resistor.

I'm kinda stumped at this point.

Suggestions welcomed.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, "radiomanL" <radiomanl@...> wrote:
>
> check C86 (.005 mfd 600 vdc) coupling capacitor . look for a high positive DC voltage on the signal grid .
> andrew
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.5/1698 - Release Date: 9/29/2008 7:25 PM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com

Version: 8.0.173 / Virus Database: 270.7.5/1698 - Release Date: 9/29/2008 7:25 PM

[Non-text portions of this message have been removed]

1219. TR-4C Front Panel?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 21:26:08 UTC
From: DALE PARFITT
Topic: 1219 Message: 1219

I am restoring a TR-4C and although the rig is in pretty good shape overall, the front panel has a nickel sized spot where it is corroded. Does anyone have a spare panel? I know I can buy the repros, but this rig is not my keeper rig, and as such, I would prefer not to put that much money into a panel.

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1220. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-09-30 23:37:44 UTC
From: captcurt2000
Topic: 1210 Message: 1220

Alright--I guess I'm feeling kinda stupid tonite. After looking at all the voltages, measureing resistances, and calculating currents and tube power for the plate screen and cathode, I figured I must be looking at the tube wrong. I saw the cathode sticking up at the top center of the tube and it is sure glowing red--suspect it is supposed to. All of the other measurements indicated that the tube was drawing about 35ma. Like Gary said, this is right where it is supposed to be. I believe the low output was a degraded First IF amp--replaced and it is where I expected it to be. So all the PS caps are done, along with the tubulars in the audio section. Still has that annoying hum regardless of audio gain setting.

I had replaced the 6EH5 BTW.

Itouched it and was shocked at how hot it was--thats when I saw the red element and thought the tube was running away. Oh well, live and learn I guess. I appreciate all your suggestions.

Still would like to get rid of the low level hum. Not sure what to do at this point. All the caps are new--although they are all individual radials munted under the chassis instead of a 4x can.

I wonder if a choke would be a good addition to the PS? Not much else to try. I can see nearly a volt of ripple on the 160V feed line.

Anyone have an idea what a good one looks like ripple-wise?

Anyway, thanks and its back up and running.

Curt

KU8L

1221. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 01:28:00 UTC
From: radiomanL
Topic: 1210 Message: 1221

what you are seeing is the tip of the filament and it is normal for it to be glowing red , will check the 2B and see what it's ripple is (I know they are not the same radio but it is the only drake receiver I have) and let you know what I find . audio power tubes will get hot enough to raise blisters .
andrew
----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, September 30, 2008 5:37 PM
Subject: [DrakeRadio] Re: R-4A audio Stage Problem

Alright--I guess I'm feeling kinda stupid tonite. After looking at all the voltages, measureing resistances, and calculating currents and tube power for the plate screen and cathode, I figured I must be looking at the tube wrong. I saw the cathode sticking up at the top center of the tube and it is sure glowing red--suspect it is supposed to. All of the other measurements indicated that the tube was drawing about 35ma. Like Gary said, this is right where it is supposed to be. I believe the low output was a degraded First IF amp--replaced and it is where I expected it to be. So all the PS caps are done, along with the tubulars in the audio section. Still has that annoying hum regardless of audio gain setting.

I had replaced the 6EH5 BTW.

Itouched it and was shocked at how hot it was--thats when I saw the red element and thought the tube was running away. Oh well, live and learn I guess. I appreciate all your suggestions.

Still would like to get rid of the low level hum. Not sure what to do at this point. All the caps are new--although they are all individual radials munted under the chassis instead of a 4x can.

I wonder if a choke would be a good addition to the PS? Not much else to try. I can see nearly a volt of ripple on the 160V feed line.

Anyone have an idea what a good one looks like ripple-wise?

Anyway, thanks and its back up and running.

Curt

KU8L

No virus found in this incoming message.
Checked by AVG - http://www.avg.com

Version: 8.0.173 / Virus Database: 270.7.5/1701 - Release Date: 9/30/2008 7:08 PM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.5/1701 - Release Date: 9/30/2008 7:08 PM

[Non-text portions of this message have been removed]

1222. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 01:02:18 UTC
From: captcurt2000
Topic: 1210 Message: 1222

Thanks Andrew:

Well yes the filament is sticking out the top but that wasn't what I was noticing.. It goes down inside a small oval cylinder and I guess that is the cathode--that is glowing red as well--nearly as red as the filamnet.

Curt

1223. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 01:19:34 UTC
From: Garey Barrell
Topic: 1210 Message: 1223

Curt -

Yes, the 6EH5 does run hot. It WILL burn your fingers if you don't let go soon enough.

About a volt of ripple on the +160V DC is about normal. What is the serial number of your receiver?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1224. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 02:29:51 UTC
From: captcurt2000
Topic: 1210 Message: 1224

Thanks Garrey:

Ser #6131 original owner. Serviced once by Drake for a defective IF xfmr.

Curt

1225. Re: [DrakeRadio] Bar knobs 4 series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 08:17:28 UTC
From: g4jss@tiscali.co.uk
Topic: 1204 Message: 1225

Garey

Alan has been touch and all sorted. Thanks for your assistance

Vic

----Original Message----
From: k4oah@...
Date: 29/09/2008 18:35
To: <DrakeRadio@yahoogroups.com>
Cc: "ALAN PHILLIPS"<kc9ys@...>
Subj: Re: [DrakeRadio] Bar knobs 4 series

Vic -

I thought you had gotten in touch with Al re these knobs. He said he
had heard from someone in England and had replied.

I have forwarded your message to him. He DOES have the bar knobs
available, and you should hear from him shortly. If you don't please
email me again and we'll get you in touch!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello all
> I seem to be having a problem contacting KC9YS re bar knobs. Sent a
> couple of emails but no joy. I don't know if he is a member of this
> group but if he is (you are) can you drop me a line and let me know
> if you still have some available.
> 73
> Vic Waddington
>
>
>

Find out how online threats target you - http://www.tiscali.co.uk/security

---

[Non-text portions of this message have been removed]

1226. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 14:00:50 UTC
From: Garey Barrell
Topic: 1210 Message: 1226

Curt -

OK, that's a Version 4 model. Your hum is most likely coming via R136, C172, R137 and C173. These are the decoupling network for the two audio preamp stages, Q7 and Q8, both of which are "behind" the AF Gain control. Replacing or increasing the value of C173 will reduce the hum. There should be NO ripple on the Collector supply for those two stages. You can also reduce the value of C167 to roll off the low end if the hum is still objectionable. This all assumes you are using a speaker. Hum with headphones is a different subject.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Thanks Garrey:
>
> Ser #6131 original owner. Serviced once by Drake for a defective IF
> xfmr.
>
> Curt
>
>
>

1227. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 14:15:22 UTC
From: captcurt2000
Topic: 1210 Message: 1227

Thanks Garey:

That makes alot of sense..I'll check that out. Someone also suggested a possible short between cathode and filament. Didn't check for that but not sure if I actually listened to it with the second tube in place or not.

Why is it a different issue with headphones?? Comes from the same place? Is it just a level issue?

I do use headphones alot 8Ohm variety, and it is quite noticeable and it is barely noticeable on the Drake speaker. Some other speakers are worse or better. The hum is generally below the noise threshold but is showing up when I use the audio interface to SSTV and PSK31.

Thanks Again,

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> OK, that's a Version 4 model. Your hum is most likely coming via
R136,
> C172, R137 and C173. These are the decoupling network for the two
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> preamp stages, Q7 and Q8, both of which are "behind" the AF Gain
> control. Replacing or increasing the value of C173 will reduce the
> hum. There should be NO ripple on the Collector supply for those two
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> if the hum is still objectionable. This all assumes you are using a
> speaker. Hum with headphones is a different subject.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> captcurt2000 wrote:
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> >

> > Ser #6131 original owner. Serviced once by Drake for a defective IF
> > xfmr.
> >
> > Curt
> >
> >
> >
>

1228. Re: [DrakeRadio] Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 17:12:42 UTC
From: Garey Barrell
Topic: 1210 Message: 1228

Curt -

Typically, a heater-cathode short gives quite a bit of hum, not just a little!

There are two types of problems with phones. One is the use of Hi-Z phones, which are VERY sensitive, meaning the AF Gain control ends up very near minimum, where the S/N ratio of the AF stages is poorest. Consider that the AF stages are all running at maximum gain, and volume is controlled by limiting the input signal level. Here the answer is a series resistor to enable you to run the AF Gain control up to at least 10 - 11 O'clock where the S/N ratio is considerably better.

The other problem, which shows up with Low-Z phones such as your 8 ohm variety, is that these are typically "Hi-Fi" phones, designed with extra bass response for music reproduction. "Modern" music and its' audience prefer heavy bass response, exaggerating whatever hum may be present. They are also considerably more efficient than a speaker, causing you to again run the AF Gain very near minimum, further exacerbating the S/N / hum situation. About all you can do here is insert a high-pass filter to roll off the low end below 2-300 Hz and/or insert a pad to at least enable you to turn up the AF Gain to get out of the S/N problem.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Thanks Garey:
>
> That makes alot of sense..I'll check that out. Someone also suggested
> a possible short between cathode and filament. Didn't check for that
> but not sure if I actually listened to it with the second tube in
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> it is barely noticeable on the Drake speaker. Some other speakers are
> worse or better. The hum is generally below the noise threshold but
> is showing up when I use the audio interface to SSTV and PSK31.
>
> Thanks Again,

>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Curt -
>>
>> OK, that's a Version 4 model. Your hum is most likely coming via
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> R136,
>
>> C172, R137 and C173. These are the decoupling network for the two
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> audio
>
>> preamp stages, Q7 and Q8, both of which are "behind" the AF Gain
>> control. Replacing or increasing the value of C173 will reduce the
>> hum. There should be NO ripple on the Collector supply for those two
>> stages. You can also reduce the value of C167 to roll off the low end
>> if the hum is still objectionable. This all assumes you are using a
>> speaker. Hum with headphones is a different subject.
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>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> captcurt2000 wrote:
>>
>>> Thanks Garrey:
>>>
>>> Ser #6131 original owner. Serviced once by Drake for a defective IF
>>> xfmr.
>>>
>>> Curt
>>>

1230. Re: R-4A audio Stage Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 18:11:35 UTC
From: captcurt2000
Topic: 1210 Message: 1230

Got It!

Thanks again Garey for the considered and detailed responses.

It is interesting that the usual problems associated with older
tube-type equpment/analog VFO for PSK and SSTV is the frequency
stability and quality of output. None of that here. These things are
rock solid--Giving me IMD checks internally of -40dB. I'm thinkin
I'll keep 'em around a while! ;)

Thanks again to all,

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> Typically, a heater-cathode short gives quite a bit of hum, not just a
> little!
>
> There are two types of problems with phones. One is the use of Hi-Z
> phones, which are VERY sensitive, meaning the AF Gain control ends up
> very near minimum, where the S/N ratio of the AF stages is poorest.
> Consider that the AF stages are all running at maximum gain, and volume
> is controlled by limiting the input signal level. Here the answer is a
> series resistor to enable you to run the AF Gain control up to at least
> 10 - 11 O'clock where the S/N ratio is considerably better.
>
> The other problem, which shows up with Low-Z phones such as your 8 ohm
> variety, is that these are typically "Hi-Fi" phones, designed with
extra
> bass response for music reproduction. "Modern" music and its' audience
> prefer heavy bass response, exaggerating whatever hum may be present.
> They are also considerably more efficient than a speaker, causing
you to
> again run the AF Gain very near minimum, further exacerbating the S/N /
> hum situation. About all you can do here is insert a high-pass filter
> to roll off the low end below 2-300 Hz and/or insert a pad to at least
> enable you to turn up the AF Gain to get out of the S/N problem.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

> <www.k4oah.com>
>
>
>
> captcurt2000 wrote:
> > Thanks Garey:
> >
> > That makes alot of sense..I'll check that out. Someone also suggested
> > a possible short between cathode and filament. Didn't check for that
> > but not sure if I actually listened to it with the second tube in
> > place or not.
> >
> > Why is it a different issue with headphones?? Comes from the same
> > place? Is it just a level issue?
> >
> > I do use headphones alot 8Ohm variety, and it is quite noticeable and
> > it is barely noticeable on the Drake speaker. Some other speakers are
> > worse or better. The hum is generally below the noise threshold but
> > is showing up when I use the audio interface to SSTV and PSK31.
> >
> > Thanks Again,
> >
> > Curt
> > KU8L
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >> Curt -
> >>
> >> OK, that's a Version 4 model. Your hum is most likely coming via
> >>
> > R136,
> >
> >> C172, R137 and C173. These are the decoupling network for the two
> >>
> > audio
> >
> >> preamp stages, Q7 and Q8, both of which are "behind" the AF Gain
> >> control. Replacing or increasing the value of C173 will reduce the
> >> hum. There should be NO ripple on the Collector supply for those
two
> >> stages. You can also reduce the value of C167 to roll off the
low end
> >> if the hum is still objectionable. This all assumes you are using a
> >> speaker. Hum with headphones is a different subject.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

> >> <www.k4oah.com>
> >>
> >>
> >>
> >> captcurt2000 wrote:
> >>
> >>> Thanks Garrey:
> >>>
> >>> Ser #6131 original owner. Serviced once by Drake for a
defective IF
> >>> xfmr.
> >>>
> >>> Curt
> >>>
>

1231. Drake HF & VHF Station For Sale or Trade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 21:02:02 UTC
From: hummerham
Topic: 1231 Message: 1231

I have a Beautiful Drake HF and VHF station for sale or trade. This entire station was completely restored by WA8SAJ, ("Mr. Drake") Jeff Covelli. All pieces look and work like new. The station consists of:

T-4X
R-4A
AC-4 p/s with new board from the Heath Kit store.
MS-4 speaker
MN-2000 tuner
W-4 watt/swr meter with PEP mod
Shure 444 mic
(again all these restored)

Rare TR-6 6 meter transceiver (still has some pitting on chassis)
MORE Rare RV-6 remote VFO
AC-4 p/s with new board from the Heath Kit Store
MS-4 speaker
W-4 watt/swr meter (calibrated for 6 meter)
Shure 444 mic
(all restored)

All with manuals & restoration docs. $1200 shipped for the HF station, and $2200 shipped for the six meter station. I would prefer to trade both stations for a TEN TEC OMNI VII. I don't want to split the pieces up at this time. Look up my call on QRZ & check out the pic of this station. Please email offers. Thanks & 73....Butch...K3AFR...k3afr@...

1232. Re: [DrakeRadio] Drake HF & VHF Station For Sale or Trade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-01 21:19:55 UTC
From: Garey Barrell
Topic: 1231 Message: 1232

Butch -

Sorry, right question, wrong seller!

My apologies....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

hummerham wrote:
> I have a Beautiful Drake HF and VHF station for sale or trade. This
> entire station was completely restored by WA8SAJ, ("Mr. Drake") Jeff
> Covelli. All pieces look and work like new. The station consists of:
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> T-4X
> R-4A
> AC-4 p/s with new board from the Heath Kit store.
> MS-4 speaker
> MN-2000 tuner
> W-4 watt/swr meter with PEP mod
> Shure 444 mic
> (again all these restored)
>
> Rare TR-6 6 meter transceiver (still has some pitting on chassis)
> MORE Rare RV-6 remote VFO
> AC-4 p/s with new board from the Heath Kit Store
> MS-4 speaker
> W-4 watt/swr meter (calibrated for 6 meter)
> Shure 444 mic
> (all restored)
>
> All with manuals & restoration docs. $1200 shipped for the HF
> station, and $2200 shipped for the six meter station. I would
> prefer to trade both stations for a TEN TEC OMNI VII. I don't want
> to split the pieces up at this time. Look up my call on QRZ & check
> out the pic of this station. Please email offers. Thanks &
> 73....Butch...K3AFR...k3afr@...
>
>
>

1233. TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 12:49:36 UTC
From: jch39_99
Topic: 1233 Message: 1233

Well, I got my TR-7. Made CW contacts on 40, 30 and 20 meters (had to cut the trace to allow all frequency transmit). I am impressed. Boy did they pack that radio (my Omni VII has all sorts of empty space inside its cabinet which is roughly the same size).

Now in reviewing the manual I notice they mention a "card puller supplied with the radio." Of course, there was no card puller supplied w/ this radio. What are folks using to assist in pulling cards? And are card extenders still available?
73/Crit/K4BXN

1234. Re: [DrakeRadio] TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 13:17:01 UTC
From: Don
Topic: 1233 Message: 1234

W7AVK had had made up a batch of the extender boards and is where I got my set, they worked well,
though i did have to file down the edges as some were a tad bit too wide. I just tried to bring up his web page
though and it wouldn't come up. so i do not know if he is ok, or has any left.
they also come up for sale on ebay on occassion.

Don
AD7LL
http://www.srcisra.org/

----- Original Message -----
From: jch39_99
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 02, 2008 6:49 AM
Subject: [DrakeRadio] TR-7 Card Puller

Well, I got my TR-7. Made CW contacts on 40, 30 and 20 meters (had to
cut the trace to allow all frequency transmit). I am impressed.
Boy did they pack that radio (my Omni VII has all sorts of empty space
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Now in reviewing the manual I notice they mention a "card puller
supplied with the radio." Of course, there was no card puller
supplied w/ this radio. What are folks using to assist in pulling
cards? And are card extenders still available?
73/Crit/K4BXN

[Non-text portions of this message have been removed]

1235. Re: [DrakeRadio] TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 14:02:37 UTC
From: Lars E. Pettersson
Topic: 1233 Message: 1235

On 10/02/2008 03:17 PM, Don wrote:
> W7AVK had had made up a batch of the extender boards and is where I got my set, they worked well,

The new location for Bob's, W7AVK, extender cards could be found at
http://wb4hfn.com/Services/W7AVK/tr7ext2.htm

73 de Lars, sm6rpz
--
Lars E. Pettersson <lars@...>
http://www.sm6rpz.se/

1236. Re: [DrakeRadio] TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 14:05:10 UTC
From: Garey Barrell
Topic: 1233 Message: 1236

Crit -

The card puller can be fabricated from a length of wire coat-hanger. There are two SMALL holes at the top of the cards. The "almost official" card puller is a rectangular shape the width of those holes. The ends are bent down a couple of inches, and then a small right-angle bend to engage the holes.

The extender boards are available from W7AVK. I just saw something recently about a new website, but you can see the information at

<http://incolor.inebraska.com/jshorney/tr7ext.htm>

There is also a photo of a "card puller" there!

Bob has email at <w7avk 'at' arrl.net>, or at <rolfne 'at' atnet.net>

His board set is very well made, and about half the price the "real" sets sell for "used".!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> Well, I got my TR-7. Made CW contacts on 40, 30 and 20 meters (had to
> cut the trace to allow all frequency transmit). I am impressed.
> Boy did they pack that radio (my Omni VII has all sorts of empty space
> inside its cabinet which is roughly the same size).
>
> Now in reviewing the manual I notice they mention a "card puller
> supplied with the radio." Of course, there was no card puller
> supplied w/ this radio. What are folks using to assist in pulling
> cards? And are card extenders still available?
> 73/Crit/K4BXN
>
>
>

1237. Re: [DrakeRadio] TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 14:07:28 UTC
From: Garey Barrell
Topic: 1233 Message: 1237

Crit -

Here is the "official" site.....

<http://www.wb4hfn.com/Services/W7AVK/tr7ext2.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
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> supplied w/ this radio. What are folks using to assist in pulling
> cards? And are card extenders still available?
> 73/Crit/K4BXN
>
>
>

1238. Re: TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-02 15:25:35 UTC
From: jch39_99
Topic: 1233 Message: 1238

WOW ... tnx everybody for the quick and useful help.
Great rig and great folks here.
73/Crit/K4BXN

1239. Re: [DrakeRadio] TR-7 Card Puller

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-03 00:23:10 UTC
From: Don
Topic: 1233 Message: 1239

I updated the link on the groups "Links" page.
Thanks !

Don
AD7LL
http://www.srcisra.org/

----- Original Message -----
From: Lars E. Pettersson
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 02, 2008 8:02 AM
Subject: Re: [DrakeRadio] TR-7 Card Puller

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The new location for Bob's, W7AVK, extender cards could be found at
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73 de Lars, sm6rpz
--
Lars E. Pettersson <lars@...>
http://www.sm6rpz.se/

[Non-text portions of this message have been removed]

1240. Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-03 13:19:09 UTC
From: captcurt2000
Topic: 1240 Message: 1240

Good Morning folks:

I'm considering a few mods/upgrades to my Drake system. Now I love my R4a and T4x just the way they are but there are a few things I would like to consider. Solid state adio amp. fans. an external freq readout. an external sdr pan adapter. A way to monitor the transmit agc level. And of course, the installation of new caps.

My question is this? are there two camps out there regarding any mods at all? Like an all original 67 corvertte?? All original R4a? or is the thought that if I can improve it, I should.

Now my twins are not pristine. They have moved around the country with me for many years. They have been stored in less than ideal conditions. They work as new or close tho, and have nothing other than new caps added--no cutting or other drilling, etc.

I've considered getting a couple of fixer-uppers to modify and be my "daily drivers" but not sure if I just might go ahead and mess with these. I don't think there is any financial advantage one way or the other--not sure we'll ever see the multi-thousand dollar level that the Collins S-line stuff has gotten to--even considering we have equal or even better performance. (S-line is certainly built better as it wasn't marketed to the same price point)

Anyway, I'd love to hear your thoughts on this.

Curt
KU8L

1241. Re: [DrakeRadio] Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-03 18:07:41 UTC
From: Garey Barrell
Topic: 1240 Message: 1241

Curt -

It's a matter of personal preference, and WHY you use Drake gear.

Personally, I use Drake gear because I like the way it's made, the way it operates and the ease of repairing it. I have just about all the 4-Line models (and 2 and 7 for that matter!), and have no desire to _modify_ any of them. Now if I had only ONE station, and wanted it to be the best I could make it, then yes, there ARE improvements that can be made to any unit. After all, the NEWEST one is 30 years old! That's a century in "electronic years", (kinda like dog years!).

To take your possibilities one by one....

Solid state audio amp. There is NO IC audio chip that produces audio anywhere near the quality of a Class A tube amplifier. While I'm certainly not a "high end" audiophile who has to have a $20,000 amplifier with a gold chassis and push-pull 12AX7 output stages, there is just no way a solid state amplifier can improve on a Class A tube audio amplifier. For low level audio stages, a single transistor in Class A operation comes close, as long as it is not overdriven, but "totem-pole" or Class B output capable of a few watts (most IC topologies), no contest.

I don't consider a fan as a modification. A fan is probably the single most important "accessory" for just about any power amplifier stage putting out more than 50W. It doesn't have to be a wind tunnel, just a gentle flow of air _OUT_ of the final cage to encourage the natural convection and move the heated air away from the general area.

I don't see any need for an external frequency readout. Just when do you need to know your frequency closer than the 0.1 kHz accuracy / resettability of any of the Drake analog dial radios? About all digital readouts have done for Ham Radio is to cause people to call CQ on even kHz frequencies! How many hours have been wasted arguing over what frequency two or more Hams are on?? "I show us on 14.325.01", "no, we're on 14.325.012", "well MY rig says we're on 14.325.008", ad nauseum. Even worse, they're often _actually_ on 14.0324.5, and haven't calibrated their "master oscillator" since it left the factory!

An external SDR is an interesting experiment, and a modified Softrock "receiver" is a fun project. Certainly inexpensive and a lot of possibilities. But this is more a case of taking the "front end" of a receiver and converting the "back end" to a computer, than a "modification". This is a complete redesign! Kinda like jacking up the ignition switch on a Corvette and running a Jeep underneath it. Or putting a "Hemi" into a Jeep!

I'm not sure WHY you'd want to measure the transmit AGC level, but... Unless you just like watching meters while you talk. Assuming the AGC is doing its job properly, (easy to determine with a scope, which is the ONLY way to be CERTAIN of your signal quality,) what difference does the "level" of AGC make?

New caps are a matter of either repair or preventative maintenance, not a modification. If the electrolytic caps in the power supply filter are originals, they are almost certainly bad now, or will be fairly soon. Usually they fail by drying out, causing the ESR to go up, ripple reduction to go down, and HUMMMMMMM. But every once in a while, one will SHORT, which hopefully will blow the _correct size_ line fuse before the power transformer smokes. If someone has wrapped foil around the fuse, or inserted a piece of #00 copper wire (I actually found this in one...) it could make for a very bad day for the equipment, and its' owner.

Bottom line, it's YOUR equipment, and YOUR decision as to what to do with / to it. Personally, I prefer to keep it as designed, warts and all. I also have a TS-940SAT as my "modern" rig, and so far have not seen anything newer that surpassed it for making contacts on the Ham bands. I have no need for pan-adapter screens, CW "readers", a picture of the other guy, or tiny buttons that require a stylus to press less than three at a time and take a two-inch thick "quick-start" BOOK to describe how many times to push each button for six level menus!! :-)

Yes, you can put a Jaguar V12 engine in a Mini-Cooper (with a little judicious metal-work!), but what you have then is neither a Jag - NOR - a Mini-Cooper.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> agc level. And of course, the installation of new caps.
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> at all? Like an all original 67 corvertte?? All original R4a? or is
> the thought that if I can improve it, I should.
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> the Collins S-line stuff has gotten to--even considering we have equal
> or even better performance. (S-line is certainly built better as it
> wasn't marketed to the same price point)
>
> Anyway, I'd love to hear your thoughts on this.
>
> Curt
> KU8L
>
>

1242. Re: [DrakeRadio] Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 02:49:56 UTC
From: Jack Weber
Topic: 1240 Message: 1242

Hi Gary,

I have followed your replies to many months of e-mails but this one has got to be one of your best. Great statement(s) on the art of owning and employing Drake gear for one's station. My compliments to you sir!

73,
Jack, N3JLW
(Lowly TS-850 owner.)

1243. Re: [DrakeRadio] Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 07:20:17 UTC
From: g4jss@tiscali.co.uk
Topic: 1240 Message: 1243

I second that. It was a brilliant piece of straight down the line talking.

73

Vic

----Original Message----
From: jweber@...
Date: 04/10/2008 3:49
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Feelings on upgrades? Yes or No?

Hi Gary,

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got to be one of your best. Great statement(s) on the art of owning and
employing Drake gear for one's station. My compliments to you sir!

73,
Jack, N3JLW
(Lowly TS-850 owner.)

_____
See your new look Tiscali Homepage - http://www.tiscali.co.uk
_____

[Non-text portions of this message have been removed]

1244. R-4 Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 13:22:03 UTC
From: tnham63
Topic: 1244 Message: 1244

My R-4 works great on 80/40/30 mtrs, but on 20 there
is now noise level. Another receiver shows band noise
at S5 but on the R-4 0. Some sigs pop up on the S-meter
but the low noise floor is weird. I have tried peaking
the trim caps but they are already peaked.
Any ideas ???

Tnx
Wink
WA8KOQ

1245. Re: Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 13:24:29 UTC
From: captcurt2000
Topic: 1240 Message: 1245

Hi Garey:

Thanks for the input--can't say I disagree with any of it, but one thing has me wondering.

How do you read 0.1kHz frequency from a dial that has 1 kHz marks (except right at the even kHz)and the linearity of the system is 1 kHz off in 100??

I understand that it is rarely, if ever a real issue knowing exactly what frequency were on but, it is often nice to be able to get precisely BACK to a previous freq. My old eyes, especially in a dim radio room might enjoy the break of having some .500 height numbers :)

Thanks again.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
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>
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> be the best I could make it, then yes, there ARE improvements that can
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That's
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> To take your possibilities one by one....
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
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>
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> > Good Morning folks:
> >
> > I'm considering a few mods/upgrades to my Drake system. Now I love my
> > R4a and T4x just the way they are but there are a few things I would
> > like to consider. Solid state adio amp. fans. an external freq
> > readout. an external sdr pan adapter. A way to monitor the transmit
> > agc level. And of course, the installation of new caps.
> >
> > My question is this? are there two camps out there regarding any mods
> > at all? Like an all original 67 corvertte?? All original R4a? or is
> > the thought that if I can improve it, I should.
> >
> > Now my twins are not pristine. They have moved around the country
> > with me for many years. They have been stored in less than ideal
> > conditions. They work as new or close tho, and have nothing other
> > than new caps added--no cutting or other drilling, etc.
> >
> > I've considered getting a couple of fixer-uppers to modify and be my
> > "daily drivers" but not sure if I just might go ahead and mess with
> > these. I don't think there is any financial advantage one way or the
> > other--not sure we'll ever see the multi-thousand dollar level that
> > the Collins S-line stuff has gotten to--even considering we have equal
> > or even better performance. (S-line is certainly built better as it
> > wasn't marketed to the same price point)
> >
> > Anyway, I'd love to hear your thoughts on this.
> >
> > Curt
> > KU8L
> >
> >

>

1246. Re: [DrakeRadio] Re: Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 16:49:04 UTC
From: Garey Barrell
Topic: 1240 Message: 1246

Curt -

Fair question.... :-)

You have marks that are almost 1/4" wide. With the R-4A, you have accurate calibration markers every 100 kHz. So.... You set the dial to "0" at the "nearest" 100 kHz mark. Then you use a procedure known as "interpolation" to _estimate_, (or visualize,) the halfway point between the two marks. That's a half-kHz. Then visually divide that in half, or into five (!). With a little effort, you really CAN reset a dial of this type to well within 100 Hz, certainly close enough that you will hear whoever you are looking for. When you get your digital readout, try interpolation and I believe you'll be surprised just how close you can come!

By the way, the little TXCOs used for most of the digital dials have a stability specification of +/- 30-40 Hz at 14 MHz, so that last digit isn't too reliable! There is often a BIG difference between "resolution" and "accuracy".

My real point is that as Amateurs, we have no real need to be within 100 Hz of a _specific_ frequency, other than to be able to find another station. Unless like some you just like to argue how "your" frequency measurement is superior to someone else's! :-)

I have to admit, I cut my teeth on a BC-454 surplus aircraft receiver in 1956, and the entire Novice band of 50 kHz was between one cal mark and a scratch a little more than 1/8" away! So I did develop a "safe-cracker's" touch with the tuning knob. I also used calipers and micrometers professionally for years, where interpolation was a constant practice.

Again, purely as a matter of "old eyes", or merely wanting the "warm and fuzzy" of seeing that bright red 14.025.45 on the dial, it's up to you! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Hi Garey:
>
> Thanks for the input--can't say I disagree with any of it, but one
> thing has me wondering.

>
> How do you read 0.1kHz frequency from a dial that has 1 kHz marks
> (except right at the even kHz)and the linearity of the system is 1 kHz
> off in 100??
>
> I understand that it is rarely, if ever a real issue knowing exactly
> what frequency were on but, it is often nice to be able to get
> precisely BACK to a previous freq. My old eyes, especially in a dim
> radio room might enjoy the break of having some .500 height numbers :)
>
> Thanks again.
>
> Curt
>
> KU8L
>
>

1247. Re: Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-04 17:35:17 UTC
From: captcurt2000
Topic: 1240 Message: 1247

OK FB Garey. I'm with you. Yes I can put it within a 1/4 of a division. I'm an old gage builder so used to the vernier on height gages and mikes too. Ran a ISO calibration facility for a while also--thats probably why I can't see any more!! :)

I do it just like you describe plus put in an offset based upon which 1/4 of the 100kHz non-linearity segment I'm at so can get it pretty regularly to 200Hz I guess or better.

Thanks Again, and have a great weekend. I'm havin some fun on the TARA RUMBLE PSK31 contest today.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> Fair question.... :-)
>
> You have marks that are almost 1/4" wide. With the R-4A, you have
> accurate calibration markers every 100 kHz. So.... You set the dial to
> "0" at the "nearest" 100 kHz mark. Then you use a procedure known as
> "interpolation" to _estimate_, (or visualize,) the halfway point
> between the two marks. That's a half-kHz. Then visually divide that in
> half, or into five (!). With a little effort, you really CAN reset a
> dial of this type to well within 100 Hz, certainly close enough that you
> will hear whoever you are looking for. When you get your digital
> readout, try interpolation and I believe you'll be surprised just how
> close you can come!
>
> By the way, the little TXCOs used for most of the digital dials have a
> stability specification of +/- 30-40 Hz at 14 MHz, so that last digit
> isn't too reliable! There is often a BIG difference between
> "resolution" and "accuracy".
>
> My real point is that as Amateurs, we have no real need to be within 100
> Hz of a _specific_ frequency, other than to be able to find another
> station. Unless like some you just like to argue how "your" frequency
> measurement is superior to someone else's! :-)

>
> I have to admit, I cut my teeth on a BC-454 surplus aircraft
receiver in
> 1956, and the entire Novice band of 50 kHz was between one cal mark and
> a scratch a little more than 1/8" away! So I did develop a
> "safe-cracker's" touch with the tuning knob. I also used calipers and
> micrometers professionally for years, where interpolation was a
constant
> practice.
>
> Again, purely as a matter of "old eyes", or merely wanting the "warm
and
> fuzzy" of seeing that bright red 14.025.45 on the dial, it's up to
you!
> :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> captcurt2000 wrote:
> > Hi Garey:
> >
> > Thanks for the input--can't say I disagree with any of it, but one
> > thing has me wondering.
> >
> > How do you read 0.1kHz frequency from a dial that has 1 kHz marks
> > (except right at the even kHz)and the linearity of the system is 1 kHz
> > off in 100??
> >
> > I understand that it is rarely, if ever a real issue knowing exactly
> > what frequency were on but, it is often nice to be able to get
> > precisely BACK to a previous freq. My old eyes, especially in a dim
> > radio room might enjoy the break of having some .500 height numbers :)
> >
> > Thanks again.
> >
> > Curt
> >
> > KU8L
> >
> >
>

1248. Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 12:22:19 UTC
From: tnham63
Topic: 1244 Message: 1248

--- Well, after further checking, I have the same problem on
80 meters also. NO band noise. S 0 when on another
receiver it is S 5 or so. I just don't know what to
peak or try to bring those 2 bands up.
Any Ideas ??
Tnx
Wink

>
> My R-4 works great on 80/40/30 mtrs, but on 20 there
> is now noise level. Another receiver shows band noise
> at S5 but on the R-4 0. Some sigs pop up on the S-meter
> but the low noise floor is weird. I have tried peaking
> the trim caps but they are already peaked.
> Any ideas ???
>
> Tnx
> Wink
> WA8KOQ
>

1249. TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 14:09:25 UTC
From: Al Scanandoah
Topic: 1249 Message: 1249

Hello

There is a rubber (or some similar material) bushing on the shaft that maintains pressure between the knob and dial skirt. Unfortunately, the bushing on my rig is dried up and ready to disintegrate.

Any ideas as to what to use as a replacement bushing?

73 - Al, K2ZN

1250. Re: TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 14:51:29 UTC
From: captcurt2000
Topic: 1249 Message: 1250

Would an O-ring do the job?

--- In DrakeRadio@yahoogroups.com, Al Scanandoah <k2zn@...> wrote:
>
> Hello
>
> There is a rubber (or some similar material) bushing on the shaft that
> maintains pressure between the knob and dial skirt. Unfortunately, the
> bushing on my rig is dried up and ready to disintegrate.
>
> Any ideas as to what to use as a replacement bushing?
>
> 73 - Al, K2ZN
>

1251. Re: [DrakeRadio] TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 14:51:55 UTC
From: Garey Barrell
Topic: 1249 Message: 1251

Al -

The original in the 7 Line was surgical natural rubber tubing. It was originally soft and a translucent, amber color, but the years do not treat it kindly. It gets hard, and a dark almost red color and crumbles. It is 5/8" o.d., and 3/8" i.d., or at least it used to be! :-)

Some have replaced it with automotive heater hose, I have used clear vinyl hose from the hardware store. Surgical tubing might be available from a surgical supply place, but telling them you only need a half-inch length may be troublesome! The 4 Line used a much harder vinyl tubing that seems to hold up better. Again, all that is needed is a slight compression to give enough friction to drive the dial gearing.

The best way I've found to cut it is with an X-Acto hobby razor saw. The ends need to be square since that is where the friction driving force is applied, and I tried several different scissor type and even blade and anvil pruning shears, but all deformed the shape, leaving a "pinched" end before cutting.

The Main Tuning knob is pressed in while tightening the set-screw to compress the tubing slightly.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Al Scanandoah wrote:
> Hello
>
> There is a rubber (or some similar material) bushing on the shaft that
> maintains pressure between the knob and dial skirt. Unfortunately, the
> bushing on my rig is dried up and ready to disintegrate.
>
> Any ideas as to what to use as a replacement bushing?
>
> 73 - Al, K2ZN
>
>

1252. Re: [DrakeRadio] Feelings on upgrades? Yes or No?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 15:56:22 UTC
From: radiomanL
Topic: 1240 Message: 1252

No . if it works , don't fix it .
andrew

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 03, 2008 7:19 AM
Subject: [DrakeRadio] Feelings on upgrades? Yes or No?

Good Morning folks:

I'm considering a few mods/upgrades to my Drake system. Now I love my R4a and T4x just the way they are but there are a few things I would like to consider. Solid state adio amp. fans. an external freq readout. an external sdr pan adapter. A way to monitor the transmit agc level. And of course, the installation of new caps.

My question is this? are there two camps out there regarding any mods at all? Like an all original 67 corvertte?? All original R4a? or is the thought that if I can improve it, I should.

Now my twins are not pristine. They have moved around the country with me for many years. They have been stored in less than ideal conditions. They work as new or close tho, and have nothing other than new caps added--no cutting or other drilling, etc.

I've considered getting a couple of fixer-uppers to modify and be my "daily drivers" but not sure if I just might go ahead and mess with these. I don't think there is any financial advantage one way or the other--not sure we'll ever see the multi-thousand dollar level that the Collins S-line stuff has gotten to--even considering we have equal or even better performance. (S-line is certainly built better as it wasn't marketed to the same price point)

Anyway, I'd love to hear your thoughts on this.

Curt
KU8L

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.5/1703 - Release Date: 10/2/2008 7:46 AM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.6/1709 - Release Date: 10/5/2008 9:20 AM

[Non-text portions of this message have been removed]

1253. Re: R-4 Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 14:55:50 UTC
From: captcurt2000
Topic: 1244 Message: 1253

Mine went deaf like that a couple of times and it was eithr:

1. the IF amp tube dirty contact--clean pins and reseat. It can be done from the back without removing cover. (V4)

2. the rf amp tube has gone south--try a replacement.

FWIW

Curt
KU8L
Livonia, MI

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> My R-4 works great on 80/40/30 mtrs, but on 20 there
> is now noise level. Another receiver shows band noise
> at S5 but on the R-4 0. Some sigs pop up on the S-meter
> but the low noise floor is weird. I have tried peaking
> the trim caps but they are already peaked.
> Any ideas ???
>
> Tnx
> Wink
> WA8KOQ
>

1254. Re: [DrakeRadio] TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 15:06:54 UTC
From: Al Scanandoah
Topic: 1249 Message: 1254

Thanks, Garey

Yeah, this bushing is red and crusty; I'll see what I can dig up.

On a similar topic, I know that there is a strong caveat to not have any lubricant on the nylon gears, but I'm guessing that the brass-to-brass pieces need a tiny dab of something after cleaning & polishing - is this true? I figure that Teflon bike lube should work quite well.

Al

Garey Barrell wrote:
> Al -
>
> The original in the 7 Line was surgical natural rubber tubing. It was
> originally soft and a translucent, amber color, but the years do not
> treat it kindly. It gets hard, and a dark almost red color and
> crumbles. It is 5/8" o.d., and 3/8" i.d., or at least it used to be! :-)
>
> Some have replaced it with automotive heater hose, I have used clear
> vinyl hose from the hardware store. Surgical tubing might be available
> from a surgical supply place, but telling them you only need a half-inch
> length may be troublesome! The 4 Line used a much harder vinyl tubing
> that seems to hold up better. Again, all that is needed is a slight
> compression to give enough friction to drive the dial gearing.
>
> The best way I've found to cut it is with an X-Acto hobby razor saw.
> The ends need to be square since that is where the friction driving
> force is applied, and I tried several different scissor type and even
> blade and anvil pruning shears, but all deformed the shape, leaving a
> "pinched" end before cutting.
>
> The Main Tuning knob is pressed in while tightening the set-screw to
> compress the tubing slightly.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Al Scanandoah wrote:
>> Hello
>>

>> There is a rubber (or some similar material) bushing on the shaft that
>> maintains pressure between the knob and dial skirt. Unfortunately, the
>> bushing on my rig is dried up and ready to disintegrate.
>>
>> Any ideas as to what to use as a replacement bushing?
>>
>> 73 - Al, K2ZN
>>
>>
>
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>
> Yahoo! Groups Links
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1255. Re: [DrakeRadio] TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 15:14:52 UTC
From: Garey Barrell
Topic: 1249 Message: 1255

Al -

Yes. NO petroleum based lube on the nylon gears. I use just a tiny
drop of light machine oil on the lead screw / follower, and a dab of
Lubriplate on the ball bearings. The teflon lube should work fine.
Just don't overdo whatever you use. It's not a high speed machine, so
doesn't need much lubrication.!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Al Scanandoah wrote:
> Thanks, Garey
>
> Yeah, this bushing is red and crusty; I'll see what I can dig up.
>
> On a similar topic, I know that there is a strong caveat to not have any
> lubricant on the nylon gears, but I'm guessing that the brass-to-brass
> pieces need a tiny dab of something after cleaning & polishing - is this
> true? I figure that Teflon bike lube should work quite well.
>
> Al
>
> Garey Barrell wrote:
>
>> Al -
>>
>> The original in the 7 Line was surgical natural rubber tubing. It was
>> originally soft and a translucent, amber color, but the years do not
>> treat it kindly. It gets hard, and a dark almost red color and
>> crumbles. It is 5/8" o.d., and 3/8" i.d., or at least it used to be! :-)
>>
>> Some have replaced it with automotive heater hose, I have used clear
>> vinyl hose from the hardware store. Surgical tubing might be available
>> from a surgical supply place, but telling them you only need a half-inch
>> length may be troublesome! The 4 Line used a much harder vinyl tubing
>> that seems to hold up better. Again, all that is needed is a slight
>> compression to give enough friction to drive the dial gearing.
>>
>> The best way I've found to cut it is with an X-Acto hobby razor saw.
>> The ends need to be square since that is where the friction driving
>> force is applied, and I tried several different scissor type and even
>> blade and anvil pruning shears, but all deformed the shape, leaving a

>> "pinched" end before cutting.
>>
>> The Main Tuning knob is pressed in while tightening the set-screw to
>> compress the tubing slightly.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> Al Scanandoah wrote:
>>
>>> Hello
>>>
>>> There is a rubber (or some similar material) bushing on the shaft that
>>> maintains pressure between the knob and dial skirt. Unfortunately, the
>>> bushing on my rig is dried up and ready to disintegrate.
>>>
>>> Any ideas as to what to use as a replacement bushing?
>>>
>>> 73 - Al, K2ZN
>>>
>>>
>

1256. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 16:58:21 UTC
From: billjhs
Topic: 1244 Message: 1256

Wink,
Don't sweat it, does it hear ok otherwise, mine r4 compared to a yaesu 857 does the same thing, but the meter shows an
s9 signal the same as the yaesu with the pre amp off. It definitely doesn't show the same noise floor as the 857 with the pre amp on, kind of nice actually, not so much unnecessary hash and static. I also checked and the r4 hears everything
the 857 hears.
73
Bill

tnham63 wrote:

>--- Well, after further checking, I have the same problem on
>80 meters also. NO band noise. S 0 when on another
>receiver it is S 5 or so. I just don't know what to
>peak or try to bring those 2 bands up.
>Any Ideas ??
>Tnx
>Wink
>
>
>
>>My R-4 works great on 80/40/30 mtrs, but on 20 there
>>is now noise level. Another receiver shows band noise
>>at S5 but on the R-4 0. Some sigs pop up on the S-meter
>>but the low noise floor is weird. I have tried peaking
>>the trim caps but they are already peaked.
>>Any ideas ???
>>
>>Tnx
>>Wink
>>WA8KOQ
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[Non-text portions of this message have been removed]

1257. Re: [DrakeRadio] TR-7 PTO Shaft

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 18:28:37 UTC
From: v44kai
Topic: 1249 Message: 1257

Hi Al,

I just replaced mind a couple days ago, after figuring out what to use, I remembered I had seen something like it somewhere, and guess what? I used them in my VCR repair work, most VCR's Pincher roller will work, you will have to get a small screwdriver and pry it off its thread wheel, then cut it to the length you want. it's black just the right size for the shaft, I don't think this replacement will ever fail, hi hi.

I still have over 10 VCR machine that with their Pincher rollers so I will save them.

v44kai.....Joel.

----- Original Message -----
From: "Al Scanandoah" <k2zn@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, October 05, 2008 9:09 AM
Subject: [DrakeRadio] TR-7 PTO Shaft

> Hello
>
> There is a rubber (or some similar material) bushing on the shaft that
> maintains pressure between the knob and dial skirt. Unfortunately, the
> bushing on my rig is dried up and ready to disintegrate.
>
> Any ideas as to what to use as a replacement bushing?
>
> 73 - Al, K2ZN
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.6/1709 - Release Date: 10/5/2008
9:20 AM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.6/1709 - Release Date: 10/5/2008 9:20 AM

[Non-text portions of this message have been removed]

1258. Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 19:31:11 UTC
From: w5rkl
Topic: 1244 Message: 1258

Wink,

With the calibrator turned on and its signal peaked with the Preselector and tuning knob, what is the S meter indicating? If it's S9 or better, don't touch a thing, the receiver's working as it should. Peform this test on all bands.

Most Drake receivers, if they have not been abused by someone who didn't know what they were doing, do not need much in the way of adjustments, if any at all. Adjusting the transformers in a Drake receiver is not a simple tweak for peak receive signal. Fiddling with the transformers, not knowing which one does what, can really mess up the R4A.

What type of antenna cable are you using between the R4A and the transmitter? This cable should be 50 ohms, such as RG-174 (50 ohms) or RG-8x (50 ohms) or some other short length of 50 ohm coax. You can even use Radio Shack RG-58 (50 ohms) because the length of cable needed between the R4A and the transmitter is very short and any loss in the Radio Shack RG-58 cable is insignificant at this short length.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, billjhs <billjhs@...> wrote:
>
> Wink,
> Don't sweat it, does it hear ok otherwise, mine r4 compared to a yaesu
> 857 does the same thing, but the meter shows an
> s9 signal the same as the yaesu with the pre amp off. It definitely
> doesn't show the same noise floor as the 857 with the pre amp on, kind
> of nice actually, not so much unnecessary hash and static. I also
> checked and the r4 hears everything
> the 857 hears.
> 73
> Bill
>
> tnham63 wrote:
>
> >--- Well, after further checking, I have the same problem on
> >80 meters also. NO band noise. S 0 when on another
> >receiver it is S 5 or so. I just don't know what to
> >peak or try to bring those 2 bands up.
> >Any Ideas ??
> >Tnx

> >Wink
> >
> >
> >
> >>My R-4 works great on 80/40/30 mtrs, but on 20 there
> >>is now noise level. Another receiver shows band noise
> >>at S5 but on the R-4 0. Some sigs pop up on the S-meter
> >>but the low noise floor is weird. I have tried peaking
> >>the trim caps but they are already peaked.
> >>Any ideas ???
> >>
> >>Tnx
> >>Wink
> >>WA8KOQ
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> >Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

1259. TR-7 PTO Shaft - fixed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 20:58:40 UTC
From: Al Scanandoah
Topic: 1249 Message: 1259

I found a solution at Home Depot - picked up a pack of 3/8" ID grommets.
Two of them stacked are just a bit thicker than the original part, so
I dug through the junque drawers and found a thinner back-up washer to
use in place of the original.

The PTO is now reassembled and is as smooth as the day it came out of
the factory.

73, Al

1260. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-05 23:55:21 UTC
From: billjhs
Topic: 1244 Message: 1260

Oh, I forgot to say the same thing on my last post. The s 9 calibration signal is a good test
73
Bill

w5rkl wrote:

>Wink,
>
>With the calibrator turned on and its signal peaked with the
>Preselector and tuning knob, what is the S meter indicating? If it's
>S9 or better, don't touch a thing, the receiver's working as it
>should. Peform this test on all bands.
>
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>didn't know what they were doing, do not need much in the way of
>adjustments, if any at all. Adjusting the transformers in a Drake
>receiver is not a simple tweak for peak receive signal. Fiddling with
>the transformers, not knowing which one does what, can really mess up
>the R4A.
>
>What type of antenna cable are you using between the R4A and the
>transmitter? This cable should be 50 ohms, such as RG-174 (50 ohms) or
>RG-8x (50 ohms) or some other short length of 50 ohm coax. You can
>even use Radio Shack RG-58 (50 ohms) because the length of cable
>needed between the R4A and the transmitter is very short and any loss
>in the Radio Shack RG-58 cable is insignificant at this short length.
>
>73
>Mike
>W5RKL
>
>
>--- In DrakeRadio@yahoogroups.com, billjhs <billjhs@...> wrote:
>
>
>>Wink,
>>Don't sweat it, does it hear ok otherwise, mine r4 compared to a yaesu
>>857 does the same thing, but the meter shows an
>>s9 signal the same as the yaesu with the pre amp off. It definitely
>>doesn't show the same noise floor as the 857 with the pre amp on, kind
>>of nice actually, not so much unnecessary hash and static. I also
>>checked and the r4 hears everything
>>the 857 hears.
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>>Bill
>>
>>tnham63 wrote:
>>
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>>
>>>--- Well, after further checking, I have the same problem on
>>>80 meters also. NO band noise. S 0 when on another
>>>receiver it is S 5 or so. I just don't know what to
>>>peak or try to bring those 2 bands up.
>>>Any Ideas ??
>>>Tnx
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>>>>My R-4 works great on 80/40/30 mtrs, but on 20 there
>>>>is now noise level. Another receiver shows band noise
>>>>at S5 but on the R-4 0. Some sigs pop up on the S-meter
>>>>but the low noise floor is weird. I have tried peaking
>>>>the trim caps but they are already peaked.
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>>>>Tnx
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1261. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 06:34:41 UTC
From: g4jss@tiscali.co.uk
Topic: 1244 Message: 1261

Hi

I had a similar thing with my R4. Basically I was getting a good calibration sig but poor sigs. Eventually the fault was found to be with the PTO. This supposed to have an a +11v supply which is obtained from a tap from the 150v line via a couple of resistors. I checked the PTO voltage and found it to be around 5v. The culprit was C149 on the PTO board which had gone leaky. Changed that and voltage OK and so was sig level.

Just a thought!!

Vic
----Original Message----
From: billjhs@...
Date: 06/10/2008 0:55
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Oh, I forgot to say the same thing on my last post. The s 9 calibration
signal is a good test
73
Bill

w5rkl wrote:

>Wink,
>
>With the calibrator turned on and its signal peaked with the
>Preselector and tuning knob, what is the S meter indicating? If it's
>S9 or better, don't touch a thing, the receiver's working as it
>should. Peform this test on all bands.
>
>Most Drake receivers, if they have not been abused by someone who
>didn't know what they were doing, do not need much in the way of
>adjustments, if any at all. Adjusting the transformers in a Drake
>receiver is not a simple tweak for peak receive signal. Fiddling with
>the transformers, not knowing which one does what, can really mess up
>the R4A.
>
>What type of antenna cable are you using between the R4A and the
>transmitter? This cable should be 50 ohms, such as RG-174 (50 ohms) or
>RG-8x (50 ohms) or some other short length of 50 ohm coax. You can
>even use Radio Shack RG-58 (50 ohms) because the length of cable
>needed between the R4A and the transmitter is very short and any loss
>in the Radio Shack RG-58 cable is insignificant at this short length.
>
>73

>Mike
>W5RKL
>
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>>[Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

_____
See your new look Tiscali Homepage - http://www.tiscali.co.uk
_____

[Non-text portions of this message have been removed]

1262. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 10:41:46 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1262

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1263. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 14:03:07 UTC
From: Garey Barrell
Topic: 1244 Message: 1263

Vic -

That must have been an R-4A or later. The PTO in the R-4 is tube based! The solid-state (bipolar) PTO came in with the R-4A, switching to FET in the second version of the R-4B.

So for the R-4, low PTO level would most likely be a weak V11. The screen dropping resistor and/or screen bypass have caused problems here. Another possibility would be V8, the PreMixer and Band Oscillator tube. MOST problems of this type are related to tubes, but after 40 years the resistors must also be suspected. The Voltage and Resistance charts are the best place to start troubleshooting this sort of problem, once _known good_ tubes are substituted in the signal and LO paths.

A simple good quality audio patch cable is fine for the leads between the receiver and transmitter, with the exception of the INJ cable, which must be a low capacitance cable such as Belden 8421 mic cable or RG-62 for best operation. A patch cable will work for the INJ if the receiver and transmitter INJ trimmers are adjusted with the pair cabled together, but the reduced LO level will cause lower transmitter output and/or low receiver sensitivity when using ONE unit to control the pair. This includes the REC ANT lead to the receiver, as it is so short as to be insignificant.

The only way to KNOW what the REAL sensitivity of a receiver is, is to use a calibrated signal generator. The advent of the Elecraft XG-1/2 or NORCAL S9 test generators make this available to anyone for as little as $30. The internal calibrator signal is a rough test, but its output is far from flat over the frequency range, and can vary 10 dB or more from one 25 kHz marker to the next. Generally speaking, the cal signal should be S-9 +10 or better on the low bands, and S-9 up to 10M, IF the best marker is selected on a given band.

The R-4 series of receivers are very quiet compared to many modern synthesized transceivers, when they are properly maintained and aligned. The design is inherently low noise for several reasons, not the least of which is the low B+ used which limits thermal noise in the tubes themselves. A clean, quiet AF section helps as well, at least up through the R-4B. A good check is to disconnect the antenna, and check each band by peaking the Preselector. You should hear a slight increase in the background noise as the peak is reached. It will be very slight on 10M, and unless the receiver is "perfect" in alignment and tube quality may be inaudible.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi
>
> I had a similar thing with my R4. Basically I was getting a good calibration sig but poor sigs. Eventually the fault was found to be with the PTO. This supposed to have an a +11v supply which is obtained from a tap from the 150v line via a couple of resistors. I checked the PTO voltage and found it to be around 5v. The culprit was C149 on the PTO board which had gone leaky. Changed that and voltage OK and so was sig level.
>
> Just a thought!!
>
> Vic
> ----Original Message----
> From: billjhs@...
> Date: 06/10/2008 0:55
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] Re: R-4 Problem (RE-Post)
>
> Oh, I forgot to say the same thing on my last post. The s 9 calibration
> signal is a good test
> 73
> Bill
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> w5rkl wrote:
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>> Wink,
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>> Preselector and tuning knob, what is the S meter indicating? If it's
>> S9 or better, don't touch a thing, the receiver's working as it
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>>>>> the trim caps but they are already peaked.
>>>>> Any ideas ???
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>>>>> Wink
>>>>> WA8KOQ
>>>>>
>>>>>

1264. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 15:09:56 UTC
From: g4jss@tiscali.co.uk
Topic: 1244 Message: 1264

Yep Garey

I was basing it on a past problem with my R-4C which, as you pointed out, doesn't have a tube PTO. I should have read the original posting a little closer and not rushed to print. Another damned senility moment!!

73

Vic

----Original Message----
From: k4oah@...
Date: 06/10/2008 15:03
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Vic -

That must have been an R-4A or later. The PTO in the R-4 is tube based! The solid-state (bipolar) PTO came in with the R-4A, switching to FET in the second version of the R-4B.

So for the R-4, low PTO level would most likely be a weak V11. The screen dropping resistor and/or screen bypass have caused problems here. Another possibility would be V8, the PreMixer and Band Oscillator tube. MOST problems of this type are related to tubes, but after 40 years the resistors must also be suspected. The Voltage and Resistance charts are the best place to start troubleshooting this sort of problem, once _known good_ tubes are substituted in the signal and LO paths.

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> Vic
> ----Original Message----
> From: billjhs@...
> Date: 06/10/2008 0:55
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] Re: R-4 Problem (RE-Post)
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See your new look Tiscali Homepage - http://www.tiscali.co.uk
---

[Non-text portions of this message have been removed]

1265. Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 15:35:09 UTC
From: Randy
Topic: 1265 Message: 1265

Here's one of those questions to which there is no right answer, just opinions, but I'll ask it anyway. I have a Drake 2-B with the 2-BQ Q-multiplier (Picture on my QRZ listing). I have used this rig for SWL for many years, but I'm not thinking of mating a transmitter to it for HF work. Thus the question. What, in your opinion would be the best match to this receiver? Your answer can be either Drake or non-Drake equipment. I intend to work both CW and Phone, but I suppose I could have a transmitter for each mode. Thanks in advance for your thoughtful opinions.

Randy - K8HRO

1266. Re: [DrakeRadio] Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 15:49:48 UTC
From: DALE PARFITT
Topic: 1265 Message: 1266

----- Original Message -----
From: Randy
To: DrakeRadio@yahoogroups.com
Sent: Monday, October 06, 2008 11:35 AM
Subject: [DrakeRadio] Transmitter Mate for Drake 2-B

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Randy - K8HRO

Hi Randy,
My choice has been the Johnson Navigator (CW only of course). A nice size fit.

Dale W4OP

1267. Re: [DrakeRadio] Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 16:13:58 UTC
From: Garey Barrell
Topic: 1265 Message: 1267

Randy -

My choice over 40 years ago was a Heath HX-20. Nice little CW / SSB transmitter almost identical in shape and size. Stable, filter, single 6146. I thought then and still think this is what Drake would have offered if they had made a matching transmitter! Too bad they didn't. :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Randy wrote:
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> suppose I could have a transmitter for each mode. Thanks in advance
> for your thoughtful opinions.
>
> Randy - K8HRO
>
>

1268. Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 21:12:13 UTC
From: Floyd Sense
Topic: 1265 Message: 1268

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb@...> wrote:
>
> Here's one of those questions to which there is no right answer, just
> opinions, but I'll ask it anyway. I have a Drake 2-B with the 2-BQ
> Q-multiplier (Picture on my QRZ listing). I have used this rig for
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> suppose I could have a transmitter for each mode. Thanks in advance
> for your thoughtful opinions.
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> Randy - K8HRO
>

Well, when I bought my 2B new around 1965 or so, I used it with a
Gonset GSB-100, which for its time had a nice stable VFO and was a
very competent CW and SSB transmitter. Rather beefy and hard to find
today with the original power transformer, but still a good choice.

1269. Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 21:14:22 UTC
From: Floyd Sense
Topic: 1265 Message: 1269

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb@...> wrote:
>
> Here's one of those questions to which there is no right answer, just
> opinions, but I'll ask it anyway. I have a Drake 2-B with the 2-BQ
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1270. Re: [DrakeRadio] Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 22:23:42 UTC
From: Mike-K5VSE
Topic: 1265 Message: 1270

Dang Floyd,

I sold the last of three Gonset GSB-100's last year. Two of them had the power transformer replaced with Peter Dahl and the one had an original. They were great "little" transmitters and quite stable for their day. I had nearly forgotten all about them.

73,

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1271. Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-06 23:21:38 UTC
From: tnham63
Topic: 1244 Message: 1271

Mike - I get the following with the calibrator on and peaked...
80m S9 +5
40M S9 +5
20M S7
15 / 10 M S1

What do you think now??
Tnx Wink
>
> Wink,
>
> With the calibrator turned on and its signal peaked with the
> Preselector and tuning knob, what is the S meter indicating? If it's
> S9 or better, don't touch a thing, the receiver's working as it
> should. Peform this test on all bands.
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> > 857 does the same thing, but the meter shows an
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> > >--- Well, after further checking, I have the same problem on
> > >80 meters also. NO band noise. S 0 when on another
> > >receiver it is S 5 or so. I just don't know what to
> > >peak or try to bring those 2 bands up.
> > >Any Ideas ??
> > >Tnx
> > >Wink
> > >
> > >
> > >
> > >>My R-4 works great on 80/40/30 mtrs, but on 20 there
> > >>is now noise level. Another receiver shows band noise
> > >>at S5 but on the R-4 0. Some sigs pop up on the S-meter
> > >>but the low noise floor is weird. I have tried peaking
> > >>the trim caps but they are already peaked.
> > >>Any ideas ???
> > >>
> > >>Tnx
> > >>Wink
> > >>WA8KOQ
> > >>
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> > [Non-text portions of this message have been removed]
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>

1272. Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 01:07:33 UTC
From: Dave Vest
Topic: 1265 Message: 1272

Randy, Not only do I agree with Garey, but have that setup myself, with the Drake 2B and Heathkit HX-20. The HX-20 with it single 6146 may be small in size with only 40 or so watts or output but has some of the best SSB audio that can be found. I also used this setup for awhile with a Johnson T/R switch which allowed me to run full QSK with the setup, and is really cool. I don't run this station as much as I should but it is a lot of fun.

I may be a little bias as this was the station my dad was running in 1963 when I was born.

Good luck but like you said there is no right or wrong and there are so many fantastic choices, that no matter what you come up with something will catch your eye at the next hamfest.

73,

Dave K8DV

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb@...> wrote:
>
> Here's one of those questions to which there is no right answer, just
> opinions, but I'll ask it anyway. I have a Drake 2-B with the 2-BQ
> Q-multiplier (Picture on my QRZ listing). I have used this rig for
> SWL for many years, but I'm not thinking of mating a transmitter to it
> for HF work. Thus the question. What, in your opinion would be the
> best match to this receiver? Your answer can be either Drake or
> non-Drake equipment. I intend to work both CW and Phone, but I
> suppose I could have a transmitter for each mode. Thanks in advance
> for your thoughtful opinions.
>
> Randy - K8HRO
>

1273. Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 01:53:31 UTC
From: w5rkl
Topic: 1244 Message: 1273

Wink,

It looks like 20, 15, and 10 appear to be down a bit, more 15 and 10 then 20.

Follow the R4's alignment procedures outlined in the manual. You may not need to perform a full alignment, possibly just a touch up on the RF amplifier on 20, 15, and 10 meters, see the manual for these adjustments.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> Mike - I get the following with the calibrator on and peaked...
> 80m S9 +5
> 40M S9 +5
> 20M S7
> 15 / 10 M S1
>
> What do you think now??
> Tnx Wink
> >
> > Wink,
> >
> > With the calibrator turned on and its signal peaked with the
> > Preselector and tuning knob, what is the S meter indicating? If it's
> > S9 or better, don't touch a thing, the receiver's working as it
> > should. Peform this test on all bands.
> >
> > Most Drake receivers, if they have not been abused by someone who
> > didn't know what they were doing, do not need much in the way of
> > adjustments, if any at all. Adjusting the transformers in a Drake
> > receiver is not a simple tweak for peak receive signal. Fiddling
> with
> > the transformers, not knowing which one does what, can really mess
> up
> > the R4A.
> >
> > What type of antenna cable are you using between the R4A and the
> > transmitter? This cable should be 50 ohms, such as RG-174 (50 ohms)
> or
> > RG-8x (50 ohms) or some other short length of 50 ohm coax. You can
> > even use Radio Shack RG-58 (50 ohms) because the length of cable

> > needed between the R4A and the transmitter is very short and any
> loss
> > in the Radio Shack RG-58 cable is insignificant at this short
> length.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, billjhs <billjhs@> wrote:
> > >
> > > Wink,
> > > Don't sweat it, does it hear ok otherwise, mine r4 compared to a
> yaesu
> > > 857 does the same thing, but the meter shows an
> > > s9 signal the same as the yaesu with the pre amp off. It
> definitely
> > > doesn't show the same noise floor as the 857 with the pre amp on,
> kind
> > > of nice actually, not so much unnecessary hash and static. I
> also
> > > checked and the r4 hears everything
> > > the 857 hears.
> > > 73
> > > Bill
> > >
> > > tnham63 wrote:
> > >
> > > >--- Well, after further checking, I have the same problem on
> > > >80 meters also. NO band noise. S 0 when on another
> > > >receiver it is S 5 or so. I just don't know what to
> > > >peak or try to bring those 2 bands up.
> > > >Any Ideas ??
> > > >Tnx
> > > >Wink
> > > >
> > > >
> > > >
> > > >>My R-4 works great on 80/40/30 mtrs, but on 20 there
> > > >>is now noise level. Another receiver shows band noise
> > > >>at S5 but on the R-4 0. Some sigs pop up on the S-meter
> > > >>but the low noise floor is weird. I have tried peaking
> > > >>the trim caps but they are already peaked.
> > > >>Any ideas ???
> > > >>
> > > >>Tnx
> > > >>Wink
> > > >>WA8KOQ
> > > >>

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> > > [Non-text portions of this message have been removed]
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> >
>

1274. Re: [DrakeRadio] Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 02:50:53 UTC
From: Garey Barrell
Topic: 1244 Message: 1274

Wink -

Definitely down on the higher bands. Assuming you have subbed tubes, (because tubes lose gain from the "top down",) a touch-up of the trimmers may help.

Have you done the S_meter calibration yet? Verify that all four slugs on the rear of the Passband Tuner are moving in and out together as you rotate the knob.

I would check the Preselector to be sure it rests at "0" when full CCW, and carefully check the height of the slugs for each band per the manual. Be VERY careful here, as it's unlikely they have been adjusted, and there were different heights for different slugs (color coded). I'm not sure if you are working on an R-4 or R-4A. The R-4 requires an additional crystal at 13.6 MHz for alignment, the four slugs are individually adjusted and at varying heights. In the R-4A all four slugs should be at the same height. Then go through the trimmer adjustment procedure in the manual, carefully measuring the slug height for each band as you go.

I would strongly advise NOT attempting to adjust the "Crystal Filter and Filter Match Transformer Alignment" step regarding the wires twisted around the pins of the transformer. This is a touchy adjustment, especially the first few times you do it, and is almost certainly ok, absent obvious tampering.

If still no luck, you're probably down to Voltage and Resistance checks, as you probably have one or more resistors that are out of tolerance.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Mike - I get the following with the calibrator on and peaked...
> 80m S9 +5
> 40M S9 +5
> 20M S7
> 15 / 10 M S1
>
> What do you think now??
> Tnx Wink
>
>> Wink,

>>
>> With the calibrator turned on and its signal peaked with the
>> Preselector and tuning knob, what is the S meter indicating? If it's
>> S9 or better, don't touch a thing, the receiver's working as it
>> should. Peform this test on all bands.
>>
>> Most Drake receivers, if they have not been abused by someone who
>> didn't know what they were doing, do not need much in the way of
>> adjustments, if any at all. Adjusting the transformers in a Drake
>> receiver is not a simple tweak for peak receive signal. Fiddling
>>
> with
>
>> the transformers, not knowing which one does what, can really mess
>>
> up
>
>> the R4A.
>>
>> What type of antenna cable are you using between the R4A and the
>> transmitter? This cable should be 50 ohms, such as RG-174 (50 ohms)
>>
> or
>
>> RG-8x (50 ohms) or some other short length of 50 ohm coax. You can
>> even use Radio Shack RG-58 (50 ohms) because the length of cable
>> needed between the R4A and the transmitter is very short and any
>>
> loss
>
>> in the Radio Shack RG-58 cable is insignificant at this short
>>
> length.
>
>> 73
>> Mike
>> W5RKL
>>
>>
>> --- In DrakeRadio@yahoogroups.com, billjhs <billjhs@> wrote:
>>
>>> Wink,
>>> Don't sweat it, does it hear ok otherwise, mine r4 compared to a
>>>
> yaesu
>
>>> 857 does the same thing, but the meter shows an
>>> s9 signal the same as the yaesu with the pre amp off. It
>>>
> definitely

>
>>> doesn't show the same noise floor as the 857 with the pre amp on,
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> kind
>
>>> of nice actually, not so much unnecessary hash and static. I
>>>
> also
>
>>> checked and the r4 hears everything
>>> the 857 hears.
>>> 73
>>> Bill
>>>
>>> tnham63 wrote:
>>>
>>>
>>>> --- Well, after further checking, I have the same problem on
>>>> 80 meters also. NO band noise. S 0 when on another
>>>> receiver it is S 5 or so. I just don't know what to
>>>> peak or try to bring those 2 bands up.
>>>> Any Ideas ??
>>>> Tnx
>>>> Wink
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>>>>> is now noise level. Another receiver shows band noise
>>>>> at S5 but on the R-4 0. Some sigs pop up on the S-meter
>>>>> but the low noise floor is weird. I have tried peaking
>>>>> the trim caps but they are already peaked.
>>>>> Any ideas ???
>>>>>
>>>>> Tnx
>>>>> Wink
>>>>> WA8KOQ
>>>>>
>>>>>
>

1275. Re: R-4 Problem (RE-Post)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 12:54:22 UTC
From: tnham63
Topic: 1244 Message: 1275

Thanks Garey and Mike -- I will try tubes next. Think 12BZ6
6HS6 - 6AU6 first then go to the second mixer.
Garey, yes, it is an R-4 and passband slugs seem to be
working ok and S mtr has been calibrated. I do notice the .4
filter pretty much silences the rcvr though.
I will try re-peaking the trimmers also.
Thanks for the tips guys ...
will let you know soon as I get some tubes to try.
73
Wink ....

> Wink -
>
> Definitely down on the higher bands. Assuming you have subbed
tubes,
> (because tubes lose gain from the "top down",) a touch-up of the
> trimmers may help.
>
> Have you done the S_meter calibration yet? Verify that all four
slugs
> on the rear of the Passband Tuner are moving in and out together as
you
> rotate the knob.
>
> I would check the Preselector to be sure it rests at "0" when full
CCW,
> and carefully check the height of the slugs for each band per the
> manual. Be VERY careful here, as it's unlikely they have been
adjusted,
> and there were different heights for different slugs (color
coded). I'm
> not sure if you are working on an R-4 or R-4A. The R-4 requires an
> additional crystal at 13.6 MHz for alignment, the four slugs are
> individually adjusted and at varying heights. In the R-4A all four
> slugs should be at the same height. Then go through the trimmer
> adjustment procedure in the manual, carefully measuring the slug
height
> for each band as you go.
>
> I would strongly advise NOT attempting to adjust the "Crystal
Filter and
> Filter Match Transformer Alignment" step regarding the wires
twisted
> around the pins of the transformer. This is a touchy adjustment,
> especially the first few times you do it, and is almost certainly

ok,
> absent obvious tampering.
>
> If still no luck, you're probably down to Voltage and Resistance
checks,
> as you probably have one or more resistors that are out of
tolerance.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> tnham63 wrote:
> > Mike - I get the following with the calibrator on and peaked...
> > 80m S9 +5
> > 40M S9 +5
> > 20M S7
> > 15 / 10 M S1
> >
> > What do you think now??
> > Tnx Wink
> >
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> >> Preselector and tuning knob, what is the S meter indicating? If
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> >> S9 or better, don't touch a thing, the receiver's working as it
> >> should. Peform this test on all bands.
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> >> adjustments, if any at all. Adjusting the transformers in a Drake
> >> receiver is not a simple tweak for peak receive signal. Fiddling
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> > with
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> >> the transformers, not knowing which one does what, can really
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> > up
> >
> >> the R4A.
> >>
> >> What type of antenna cable are you using between the R4A and the
> >> transmitter? This cable should be 50 ohms, such as RG-174 (50

ohms)
> >>
> > or
> >
> >> RG-8x (50 ohms) or some other short length of 50 ohm coax. You
can
> >> even use Radio Shack RG-58 (50 ohms) because the length of cable
> >> needed between the R4A and the transmitter is very short and any
> >>
> > loss
> >
> >> in the Radio Shack RG-58 cable is insignificant at this short
> >>
> > length.
> >
> >> 73
> >> Mike
> >> W5RKL
> >>
> >>
> >> --- In DrakeRadio@yahoogroups.com, billjhs <billjhs@> wrote:
> >>
> >>> Wink,
> >>> Don't sweat it, does it hear ok otherwise, mine r4 compared to
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> > yaesu
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> >>> 857 does the same thing, but the meter shows an
> >>> s9 signal the same as the yaesu with the pre amp off. It
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> >>> doesn't show the same noise floor as the 857 with the pre amp
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> > also
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> >>> the 857 hears.
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> >>> Bill
> >>>
> >>> tnham63 wrote:
> >>>
> >>>

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> >>>> 80 meters also. NO band noise. S 0 when on another
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> >>>>
> >>>>
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> >>>>> is now noise level. Another receiver shows band noise
> >>>>> at S5 but on the R-4 0. Some sigs pop up on the S-meter
> >>>>> but the low noise floor is weird. I have tried peaking
> >>>>> the trim caps but they are already peaked.
> >>>>> Any ideas ???
> >>>>>
> >>>>> Tnx
> >>>>> Wink
> >>>>> WA8KOQ
> >>>>>
> >>>>>
> > >
>

1276. Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 13:30:42 UTC
From: Randy
Topic: 1265 Message: 1276

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb@...> wrote:
>
> I'd like to thank you all for your responses. So far it looks like the Heathkit HX-20 is in the lead. I've also posted this question on eham.com, so I'll throw those answers in the mix also. One of these nights, I might get on one of the Drake HF nets and ask there as well. The next issue would be finding a nice HX-20. No easy task since I live in the middle of nowhere, up here in the Great White North.

Thanks again and 73,
>
> Randy - K8HRO
>

1277. Re: [DrakeRadio] Re: Transmitter Mate for Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 16:35:51 UTC
From: N9JCQ@aol.com
Topic: 1265 Message: 1277

I believe there is a Drake net on 3.865 MHZ tonight at 8:00 EST??

-----Original Message-----
From: Randy <rfb@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, 7 Oct 2008 8:30 am
Subject: [DrakeRadio] Re: Transmitter Mate for Drake 2-B

--- In DrakeRadio@yahoogroups.com, "Randy" <rfb@...> wrote:
>
> I'd like to thank you all for your responses. So far it looks like the Heathkit HX-20 is in the lead. I've also posted this question on eham.com, so I'll throw those answers in the mix also. One of these nights, I might get on one of the Drake HF nets and ask there as well. The next issue would be finding a nice HX-20. No easy task since I live in the middle of nowhere, up here in the Great White North.

Thanks again and 73,
>
> Randy - K8HRO
>

1278. 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 16:50:30 UTC
From: john baker
Topic: 1278 Message: 1278

Hi guys,
Just picked up off e-bay a pair of finals that were supposed to be 6JB6As. When they came in they ended up being 6KM6s. They seem very close except that they either handle or require quite a bit more voltage; I am not sure which. Are these a great, "bullit proof" substitute or will they be starved for power and not perform adequately? Before I sent them back I wanted to the word from you guys in the know.

Thanks much
73
jb
kg6biw

1279. Re: [DrakeRadio] 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 18:13:46 UTC
From: Garey Barrell
Topic: 1278 Message: 1279

JB -

Well, at least the have the same base connections! :-)

I've not had any personal experience with the KM6s, but their interelectrode capacitances are about 50% higher than the JB6, and so you "may" have a problem getting them neutralized in a stock transmitter. The input capacitance is MUCH higher (1.2 pF vs 0.2 pF) but that probably won't be a problem, except perhaps on 10M. They DO have a slightly higher plate dissipation, but that won't do you much good if you can't neutralize them.

The 6GJ5 is a much better sub if you just can't find JB6s. Perhaps someone here has had direct experience?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

john baker wrote:
> Hi guys,
> Just picked up off e-bay a pair of finals that were supposed to be
> 6JB6As. When they came in they ended up being 6KM6s. They seem very
> close except that they either handle or require quite a bit more
> voltage; I am not sure which. Are these a great, "bullit proof"
> substitute or will they be starved for power and not perform
> adequately? Before I sent them back I wanted to the word from you
> guys in the know.
>
> Thanks much
> 73
> jb
> kg6biw
>
>
>

1280. Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-07 19:15:52 UTC
From: w5rkl
Topic: 1278 Message: 1280

I made the same mistake a number of years ago, buying a few KM6s. The seller said they were exact replacements and would work fine in my T4XB, back when I had a T4XB. Neutralizing them on 10 meters was a royal pain, never did get it right. Stability on the higher bands was way out of whack.

I was in Germany at the time, working for GD as a contractor so returning them was not an option, shipping cost was too expensive.

If the ad clearly stated 6JB6s but you received 6KM6s instead, he should take them back and give you the right tubes or refund your money back, including shipping. Whether he will or not, I can't say.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> JB -
>
> Well, at least the have the same base connections! :-)
>
> I've not had any personal experience with the KM6s, but their
> interelectrode capacitances are about 50% higher than the JB6, and so
> you "may" have a problem getting them neutralized in a stock
> transmitter. The input capacitance is MUCH higher (1.2 pF vs 0.2 pF)
> but that probably won't be a problem, except perhaps on 10M. They DO
> have a slightly higher plate dissipation, but that won't do you much
> good if you can't neutralize them.
>
> The 6GJ5 is a much better sub if you just can't find JB6s. Perhaps
> someone here has had direct experience?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
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>
> john baker wrote:
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> > voltage; I am not sure which. Are these a great, "bullit proof"
> > substitute or will they be starved for power and not perform
> > adequately? Before I sent them back I wanted to the word from you
> > guys in the know.
> >
> > Thanks much
> > 73
> > jb
> > kg6biw
> >
> >
> >
>

1281. Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 00:21:12 UTC
From: john baker
Topic: 1278 Message: 1281

Yeah, we'll see if he will. If he don't I will let you know who it
is. Thanks guys

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I made the same mistake a number of years ago, buying a few KM6s.
The
> seller said they were exact replacements and would work fine in my
> T4XB, back when I had a T4XB. Neutralizing them on 10 meters was a
> royal pain, never did get it right. Stability on the higher bands
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> way out of whack.
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> money back, including shipping. Whether he will or not, I can't say.
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > JB -
> >
> > Well, at least the have the same base connections! :-)
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> > you "may" have a problem getting them neutralized in a stock
> > transmitter. The input capacitance is MUCH higher (1.2 pF vs 0.2
pF)
> > but that probably won't be a problem, except perhaps on 10M.

They DO
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> > > voltage; I am not sure which. Are these a great, "bullit
proof"
> > > substitute or will they be starved for power and not perform
> > > adequately? Before I sent them back I wanted to the word from
you
> > > guys in the know.
> > >
> > > Thanks much
> > > 73
> > > jb
> > > kg6biw
> > >
> > >
> > >
> >
>

1282. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 00:26:46 UTC
From: K5VSE
Topic: 1278 Message: 1282

I think we all know who it is. He's been doing this for over a year. I know of three other folks that have tried it, and it will not work. Neutralization is nearly impossible. And NO, I'm not one of them. I will pay a little more and use only Sylvania tubes in any of my Drake equipment.

Remember the old saying, "Buyer Beware"

And that's all I will say for now.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
On 3922 nearly every night.
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

1283. Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 16:27:06 UTC
From: john baker
Topic: 1278 Message: 1283

Ha! Yeah, thanks Mike. Rub it in...

These are GEs. Look new. Have people had problems with them? I would have thought they were a quality tube.

jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> I think we all know who it is. He's been doing this for over a year. I know
> of three other folks that have tried it, and it will not work.
> Neutralization is nearly impossible. And NO, I'm not one of them. I will pay
> a little more and use only Sylvania tubes in any of my Drake equipment.
>
> Remember the old saying, "Buyer Beware"
>
> And that's all I will say for now.
>
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> On 3922 nearly every night.
> WEB Site: http://members.tripod.com/~sjsharks/index.html
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> All email scanned with Norton 2008
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

1284. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 16:40:31 UTC
From: Garey Barrell
Topic: 1278 Message: 1284

JB -

I'm sure they ARE a "quality" tube. Just that they were designed to be used at 15.575 kHz, NOT 28 MHz.

The Sylvania 6JB6 was ALSO designed for 15.575 kHz use, BUT Sylvania took the trouble to test and characterize several of their sweep tubes for use as Linear RF amplifiers. Probably why Drake used Sylvania 6JB6s in the original design. Sylvania also made all Zenith branded tubes, so they work just as well. RCA and GE brands also work within the adjustment range of the neutralization cap in the Drake gear. Any other branded 6JB6s may or may not work (neutralize) depending upon who actually made the tubes. Stick with 6JB6 or 6GJ5 of these four brands and you will be ok. Anything else may or may not work, at least not without modification of the transmitter neutralization network.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

john baker wrote:
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> kg6biw
>
>
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>> Neutralization is nearly impossible. And NO, I'm not one of them. I
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>> All email scanned with Norton 2008
>> "In God We Trust"
>>

1285. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 17:12:38 UTC
From: K5VSE
Topic: 1278 Message: 1285

Sorry John,

I didn't mean to get up upset, but I can only tell you what I have learned over the many years I've been in this industry. I may have some KM6's out in the shop, and just might try to see what mods can be made in the neutralization circuits to make them work, if I can find the time.

It will get better, I promise.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1286. RE: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 19:52:01 UTC
From: James Chaggaris
Topic: 1278 Message: 1286

Garey,

I have a set of Lindahl 6JB6's in my B-Line and they work fine. Someone said that Lindahl tubes were made by GE but I'm not sure.

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Thursday, October 09, 2008 11:41 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: 6JB6A Substitute

JB -

I'm sure they ARE a "quality" tube. Just that they were designed to be used at 15.575 kHz, NOT 28 MHz.

The Sylvania 6JB6 was ALSO designed for 15.575 kHz use, BUT Sylvania took the trouble to test and characterize several of their sweep tubes for use as Linear RF amplifiers. Probably why Drake used Sylvania 6JB6s in the original design. Sylvania also made all Zenith branded tubes, so they work just as well. RCA and GE brands also work within the adjustment range of the neutralization cap in the Drake gear. Any

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and you will be ok. Anything else may or may not work, at least not
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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

john baker wrote:
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> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com,
"K5VSE" <mdewey@...> wrote:
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>> I think we all know who it is. He's been doing this for over a
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> year. I know
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>> of three other folks that have tried it, and it will not work.
>> Neutralization is nearly impossible. And NO, I'm not one of them. I
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> will pay
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>> a little more and use only Sylvania tubes in any of my Drake
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> equipment.
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>> Remember the old saying, "Buyer Beware"
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>> And that's all I will say for now.
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>> Mike-K5VSE
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>> Formerly WB6VSE, Senior Tech. Amateur Division
>> SBE/Linear Systems, Watsonville, CA
>> On 3922 nearly every night.
>> WEB Site: http://members.
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>> APA 220, USS Okanogan, LSD31, USS Point Defiance
>> All email scanned with Norton 2008
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>>

[Non-text portions of this message have been removed]

1287. Need crystal Source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 19:54:57 UTC
From: captcurt2000
Topic: 1287 Message: 1287

Looking for a 20.8 mHz xtal for R-4 so I can transceive on 30M.

Thanks

Curt
KU8L

1288. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 20:10:21 UTC
From: Garey Barrell
Topic: 1278 Message: 1288

Jim -

OK. I don't know if Lindahl actually made tubes themselves or not.
The only problem is that companies that did NOT make their own tubes
would often purchase from whoever gave them the best price, or happened
to be making the tube they needed at the time. So you could purchase
another set of tubes marked Lindahl, and they wouldn't work! IF they
had an exclusive agreement with GE, then your chances would be pretty
good that they would.

Obviously, ALL tubes were not being made ALL the time, even the big boys
would do a run of 12AX7s, then reset the line and make 12BY7s, so if
your regular supplier was out of 12AX7s and wasn't going to come around
to them for a month, you might go somewhere else.

Also, certain types were made by only one or two manufacturers, but sold
by a dozen! There was some exchange even among the majors when demand
required it.

Zenith had an exclusive agreement with Sylvania, but I understand that
was unusual. Zenith's touchstone was quality, and staying with a known,
consistent manufacturer would have fit in with that goal.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

James Chaggaris wrote:
> Garey,
>
> I have a set of Lindahl 6JB6's in my B-Line and they work fine. Someone
> said that Lindahl tubes were made by GE but I'm not sure.
>
> 73,
>
> Jim N9WW
>
>
> James E. Chaggaris
> President
> PowerOne Corp.
> 1020 Cedar Ave.
> Suite 203
> St. Charles, IL 60174
> Phn:(630) 443-6500

> Fax:(630) 443-6505
> Cell:(630) 669-2241
> Web: www.pwrone.com
>

1289. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 20:12:32 UTC
From: Garey Barrell
Topic: 1278 Message: 1289

Jim -

I "thought" it was LINDAL......

<http://www.geocities.com/rxtxtubes/pa01023.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

James Chaggaris wrote:
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1290. RE: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 20:20:29 UTC
From: James Chaggaris
Topic: 1278 Message: 1290

Garey,

You're right it is Lindal...Oh well, if those tubes go soft I have as backup 3 sets of matched Syl 6JB6's...

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Thursday, October 09, 2008 3:13 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: 6JB6A Substitute

Jim -

I "thought" it was LINDAL......

<http://www.geocitie <http://www.geocities.com/rxtxtubes/pa01023.htm>
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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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James Chaggaris wrote:
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[Non-text portions of this message have been removed]

1291. RE: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 21:02:13 UTC
From: John Page
Topic: 1278 Message: 1291

I have been reading this thtead with interest as I have a T4XC that I have 6KM6's in and I have had NO problems with. Guess I have been lucky. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: k4oah@mindspring.com
Date: Thu, 9 Oct 2008 16:12:32 -0400
Subject: Re: [DrakeRadio] Re: 6JB6A Substitute

Jim -

I "thought" it was LINDAL......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

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1292. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 21:19:38 UTC
From: Garey Barrell
Topic: 1278 Message: 1292

John -

It all depends upon who made them. The tube was DESIGNED to operate at 15.575 kHz. For one to operate in a particular circuit with specific neutralization values really is a matter of luck, since differences in manufacturing that make no difference at 15 kHz can be critical at 28 MHz. The 500% increase in the Plate capacity of the 6KM6 over the 6JB6 _in the RCA Tube Manual_ makes absolutely no difference at 15 kHz, but is significant at 28 MHz.

I guess the question is, does your transmitter neutralize properly on 28 MHz? Maximum RF output at minimum Final plate current? Do you get over 100W output on 10M?

73, Garey - K4OAH
Glen Allen, VA

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> John Page K4KWM
> Hollow State since 1953
> (ex W8PKU,N8BLB,NA8O)
>
>

1293. RE: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 22:57:55 UTC
From: John Page
Topic: 1278 Message: 1293

Gary, max pwr at dip and about 110 out on 10. About 180 out on 75 mtrs. They are RCAJohn Page K4KWMHollow State since 1953(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.comFrom: k4oah@...: Thu, 9 Oct 2008 17:19:38 -0400Subject: Re: [DrakeRadio] Re: 6JB6A Substitute

John -It all depends upon who made them. The tube was DESIGNED to operate at 15.575 kHz. For one to operate in a particular circuit with specific neutralization values really is a matter of luck, since differences in manufacturing that make no difference at 15 kHz can be critical at 28 MHz. The 500% increase in the Plate capacity of the 6KM6 over the 6JB6 _in the RCA Tube Manual_ makes absolutely no difference at 15 kHz, but is significant at 28 MHz.I guess the question is, does your transmitter neutralize properly on 28 MHz? Maximum RF output at minimum Final plate current? Do you get over 100W output on 10M?73, Garey - K4OAHGlen Allen, VADrake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs<www.k4oah.com>John Page wrote:> I have been reading this thtead with interest as I have a T4XC that I have 6KM6's in and I have had NO problems with. Guess I have been lucky. John>>> John Page K4KWM> Hollow State since 1953> (ex W8PKU,N8BLB,NA8O)>>

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[Non-text portions of this message have been removed]

1294. TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-09 23:51:34 UTC
From: wa2gju
Topic: 1294 Message: 1294

I am looking at buying a great condition TR-3 but am an avid CW Operator. Does anyone know if there is a mod for Semi-Automatic T/R Switching for the TR-3 and also if there is variable IF-Shift or an IF-Shift mod that can be performed to it please?

73's
Chuck
WA2GJU
Buffalo, NY

1295. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 00:37:10 UTC
From: LEE BAHR
Topic: 1278 Message: 1295

Yes, but do you operate the radio on 10 meters? Lots of the substitute tubes work on the low bands but don't work good on 10 ,15 and sometimes 20 meters.

Lee, w0vt

----- Original Message -----
From: "John Page" <k4kwm@...>
To: <drakeradio@yahoogroups.com>
Sent: Thursday, October 09, 2008 4:02 PM
Subject: RE: [DrakeRadio] Re: 6JB6A Substitute

I have been reading this thtead with interest as I have a T4XC that I have 6KM6's in and I have had NO problems with. Guess I have been lucky. John

John Page K4KWM
Hollow State since 1953
(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Thu, 9 Oct 2008 16:12:32 -0400
Subject: Re: [DrakeRadio] Re: 6JB6A Substitute

Jim -

I "thought" it was LINDAL......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

James Chaggaris wrote:
> Garey,
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go.
http://clk.atdmt.com/MRT/go/msnnkwxp1020093182mrt/direct/01/

Yahoo! Groups Links

1296. Re: [DrakeRadio] TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 00:54:47 UTC
From: Larry Taft
Topic: 1294 Message: 1296

All the TR-3s I have seen require you to switch from Receive (SSB) to
Transmit CW by hand. Major rebuild of the T/R circuits would be
needed to make it semi QSK.

What you are looking for is called the Drake TR-4CWrit.

Larry K2LT
drakerepair.com

wa2gju wrote:
> I am looking at buying a great condition TR-3 but am an avid CW
> Operator. Does anyone know if there is a mod for Semi-Automatic T/R
> Switching for the TR-3 and also if there is variable IF-Shift or an IF-
> Shift mod that can be performed to it please?
>
> 73's
> Chuck
> WA2GJU
> Buffalo, NY
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1297. Re: [DrakeRadio] TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 01:32:28 UTC
From: Chuck Matteliano
Topic: 1294 Message: 1297

Larry,

Thanks for the response. I don't think I can let this one go however because it is in such good shape and the price is right. So I might just pick it up and see what I can figure out for myself from the schematic. Any idea about IF Shift?

Thanks,
Chuck

--- On Thu, 10/9/08, Larry Taft <ltaft@...> wrote:

From: Larry Taft <ltaft@...>
Subject: Re: [DrakeRadio] TR-3 T/R Switching
To: DrakeRadio@yahoogroups.com
Date: Thursday, October 9, 2008, 8:54 PM

All the TR-3s I have seen require you to switch from Receive (SSB) to
Transmit CW by hand. Major rebuild of the T/R circuits would be
needed to make it semi QSK.

What you are looking for is called the Drake TR-4CWrit.

Larry K2LT
drakerepair. com

wa2gju wrote:
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> 73's
> Chuck
> WA2GJU
> Buffalo, NY
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
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>
>

[Non-text portions of this message have been removed]

1298. Re: [DrakeRadio] TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 02:19:06 UTC
From: Garey Barrell
Topic: 1294 Message: 1298

Chuck -

I see Larry has answered your question on the TR-3, and that your membership has been approved.! Welcome.

The TR-3 does require manual switching from transmit to receive for CW. It was designed as a mobile SSB transceiver, and CW was definitely an afterthought. The TR-4s are better, but all, with the exception of the 'rare' TR-4CwRIT are not a lot better suited to CW. While the TR-4's and the TR-4CW are "semi-breakin", without RIT they are still not very pleasant to use on CW. Believe me, you will be a LOT more satisfied with any of the Twins for CW. ALL have excellent semi-breakin, and maybe I'm just old, but I'll take a separate receiver and transmitter over a transceiver any day. I have several 7 lines and a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use transceive for CW. I'm about 95% CW, and have been for 50+ years.

By the way, there is no simple way to implement either semi-breakin on the TR-3, or RIT on any of the TR3/4 series. Likewise there is no simple way to implement Passband tuning on any of them.

If you just want a good station for very pleasant CW operation on a day-to-day basis, find a nice late A or B Line and set them up. If you like contesting or other VERY crowded band situations, the C Line is better at slicing off a single signal when surrounded by 50 over 9 signals, as found during low band contest weekends.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

wa2gju wrote:
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> Chuck
> WA2GJU
> Buffalo, NY
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>

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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.173 / Virus Database: 270.7.6/1716 - Release Date: 10/9/2008 9:44 AM
>
>

1299. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 02:33:54 UTC
From: Garey Barrell
Topic: 1278 Message: 1299

John -

Well that's probably a good potential sub. RCA may have used a
different internal geometry than GE on this tube, or perhaps the GE
branded tubes were built by yet another manufacturer. With the higher
plate dissipation of the KMs, I'd expect the capacities to be larger,
but not 5 times the JB in the RCA manual. I'm a little surprised the
neutralization cap was able to cope with the difference. It only has a
5.7 pF delta C max.

Like I said earlier, Sylvania, Zenith, RCA and GE 6JB6s _always_ work,
at least in my experience. Any other brand or type _may_ (or may not.)!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

John Page wrote:
> Gary, max pwr at dip and about 110 out on 10. About 180 out on 75 mtrs. They are RCAJohn Page K4KWMHollow State since 1953(ex W8PKU,N8BLB,NA8O)
>
> To: DrakeRadio@yahoogroups.comFrom: k4oah@...: Thu, 9 Oct 2008 17:19:38 -0400Subject: Re: [DrakeRadio] Re: 6JB6A Substitute
>
>
>
>
> John -It all depends upon who made them. The tube was DESIGNED to operate at 15.575 kHz. For one to operate in a particular circuit with specific neutralization values really is a matter of luck, since differences in manufacturing that make no difference at 15 kHz can be critical at 28 MHz. The 500% increase in the Plate capacity of the 6KM6 over the 6JB6 _in the RCA Tube Manual_ makes absolutely no difference at 15 kHz, but is significant at 28 MHz.I guess the question is, does your transmitter neutralize properly on 28 MHz? Maximum RF output at minimum Final plate current? Do you get over 100W output on 10M?73, Garey - K4OAHGlen Allen, VADrake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs<www.k4oah.com>John Page wrote:> I have been reading this thtead with interest as I have a T4XC that I have 6KM6's in and I have had NO problems with. Guess I have been lucky. John>>> John Page K4KWM> Hollow State since 1953> (ex W8PKU,N8BLB,NA8O)>>
>
>

1300. Filament fuse? TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 03:26:56 UTC
From: Tim Stotenburg
Topic: 1300 Message: 1300

Hello,
Tonight I was checking the bulbs for voltage for the vfo and meter
for proper voltage and my probe slipped. Seems I blew the filament
fuse, I know it is supposed to be a #26 tinned enamel wire but can't
find it.
Can anyone help me please,

Thanx,
Tim Ki6nQT

1301. Re: [DrakeRadio] Need crystal Source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 07:18:39 UTC
From: Dave Springer
Topic: 1287 Message: 1301

Always International Crystal for my commercial or "important" stuff. Other places that work well for CBs, scanners, earlier commercial or ham stuff are Cal Crystal & Jan Crystal.

--- On Thu, 10/9/08, captcurt2000 <captcurt@...> wrote:

From: captcurt2000 <captcurt@...>
Subject: [DrakeRadio] Need crystal Source
To: DrakeRadio@yahoogroups.com
Date: Thursday, October 9, 2008, 2:54 PM

Looking for a 20.8 mHz xtal for R-4 so I can transceive on 30M.

Thanks

Curt
KU8L

[Non-text portions of this message have been removed]

1302. Re: Filament fuse? TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 10:27:15 UTC
From: w5rkl
Topic: 1300 Message: 1302

The filament fuse is located on a small vertical circuit board just forward of the power connector. If you don't have the TR4 manual, download it from the following website:

ftp://bama.sbc.edu/downloads/drake/tr4/

Turn to page 33 of the manual and you will see in the picture of the TR4's chassis bottom where the fuse is located.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@...> wrote:
>
> Hello,
> Tonight I was checking the bulbs for voltage for the vfo and meter
> for proper voltage and my probe slipped. Seems I blew the filament
> fuse, I know it is supposed to be a #26 tinned enamel wire but can't
> find it.
> Can anyone help me please,
>
> Thanx,
> Tim Ki6nQT
>

1303. Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 11:08:52 UTC
From: w5rkl
Topic: 1294 Message: 1303

Chuck,

I agree with Garey. As Garey indicated, there is no simple modification to incorporate an IF shift circuit with any of the standard TR3/TR4 transceivers, excluding the TR4CW/RIT of course.

If power is one of the reasons for selecting the TR3 you would be better off with an external linear amplifier and separates (T4XB/R4B or T4XC/R4C) than a TR3. Any of the separates will work together, that's the beauty of the Drake separates. You don't have to have a matched set, i.e. T4XB and an R4B. For example, you can mate a T4XC with an R4B or a T4XB and an R4C.

Another thing you may not have thought of. The moment you drill a hole in the TR3's front panel for the IF Shift control is the moment that TR3's monetary value drops tremendously regardless whether the modification works or not.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Chuck -
>
> I see Larry has answered your question on the TR-3, and that your
> membership has been approved.! Welcome.
>
> The TR-3 does require manual switching from transmit to receive for
> CW. It was designed as a mobile SSB transceiver, and CW was
definitely
> an afterthought. The TR-4s are better, but all, with the exception of
> the 'rare' TR-4CwRIT are not a lot better suited to CW. While the
> TR-4's and the TR-4CW are "semi-breakin", without RIT they are still
not
> very pleasant to use on CW. Believe me, you will be a LOT more
> satisfied with any of the Twins for CW. ALL have excellent
> semi-breakin, and maybe I'm just old, but I'll take a separate receiver
> and transmitter over a transceiver any day. I have several 7 lines and
> a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use
> transceive for CW. I'm about 95% CW, and have been for 50+ years.
>
> By the way, there is no simple way to implement either semi-breakin on
> the TR-3, or RIT on any of the TR3/4 series. Likewise there is no
> simple way to implement Passband tuning on any of them.

>
> If you just want a good station for very pleasant CW operation on a
> day-to-day basis, find a nice late A or B Line and set them up. If you
> like contesting or other VERY crowded band situations, the C Line is
> better at slicing off a single signal when surrounded by 50 over 9
> signals, as found during low band contest weekends.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> wa2gju wrote:
> > I am looking at buying a great condition TR-3 but am an avid CW
> > Operator. Does anyone know if there is a mod for Semi-Automatic T/R
> > Switching for the TR-3 and also if there is variable IF-Shift or
an IF-
> > Shift mod that can be performed to it please?
> >
> > 73's
> > Chuck
> > WA2GJU
> > Buffalo, NY
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> > Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.173 / Virus Database: 270.7.6/1716 - Release Date:
10/9/2008 9:44 AM
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1304. Re: [DrakeRadio] TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 12:56:49 UTC
From: Chuck Matteliano
Topic: 1294 Message: 1304

Garey,

Well, this TR-3 has the additional RV3 VFO-Speaker and PS-4 power supply with it. So I am assuming that RIT should not be an issue because I can transmit with the VFO on the rig and receive with the RV3? and it should work just as good as a set of twins. As far as the manual switching, I guess I can handle that for a while. I do have an ICOM IC-745 as well but it is on the bench right now with PLL problems that I am trying to resolve. So if I get them both working then I guess I have the best of both worlds.

One question, WHERE is the T/R switch on the TR-3??? I don't see it on the face plate, how is manual switching accomplished?

Chuck

--- On Thu, 10/9/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] TR-3 T/R Switching
To: DrakeRadio@yahoogroups.com
Date: Thursday, October 9, 2008, 10:19 PM

Chuck -

I see Larry has answered your question on the TR-3, and that your membership has been approved.! Welcome.

The TR-3 does require manual switching from transmit to receive for CW. It was designed as a mobile SSB transceiver, and CW was definitely an afterthought. The TR-4s are better, but all, with the exception of the 'rare' TR-4CwRIT are not a lot better suited to CW. While the TR-4's and the TR-4CW are "semi-breakin" , without RIT they are still not very pleasant to use on CW. Believe me, you will be a LOT more satisfied with any of the Twins for CW. ALL have excellent semi-breakin, and maybe I'm just old, but I'll take a separate receiver and transmitter over a transceiver any day. I have several 7 lines and a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use transceive for CW. I'm about 95% CW, and have been for 50+ years.

By the way, there is no simple way to implement either semi-breakin on the TR-3, or RIT on any of the TR3/4 series. Likewise there is no simple way to implement Passband tuning on any of them.

If you just want a good station for very pleasant CW operation on a day-to-day basis, find a nice late A or B Line and set them up. If you like contesting or other VERY crowded band situations, the C Line is better at slicing off a single signal when surrounded by 50 over 9 signals, as found during low band contest weekends.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

wa2gju wrote:
> I am looking at buying a great condition TR-3 but am an avid CW
> Operator. Does anyone know if there is a mod for Semi-Automatic T/R
> Switching for the TR-3 and also if there is variable IF-Shift or an IF-
> Shift mod that can be performed to it please?
>
> 73's
> Chuck
> WA2GJU
> Buffalo, NY
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg. com
> Version: 8.0.173 / Virus Database: 270.7.6/1716 - Release Date: 10/9/2008 9:44 AM
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>

[Non-text portions of this message have been removed]

1305. Re: [DrakeRadio] Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 13:10:33 UTC
From: Chuck Matteliano
Topic: 1294 Message: 1305

Mike,

Thanks for the advice. I just wrote to Garey that this TR-3 has the RV-3 VFO and PS-4 with it so RIT is not necessarily a problem. If I were to design an IF-Shift for it, I would put it in it's own can and wire it in so that it could be removed without mod to the chassis or cabinet... I realize the value of a pristine cabinet...!

I think either way I will enjoy the rig. I just love the old Drake stuff and I miss my 2C and 2NT terribly. I had a homebrew VFO for my 2NT and I tell ya, that 2C was one of the hottest little receivers I've ever owned. Now I'm sorry I ever sold it.

Chuck

--- On Fri, 10/10/08, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [DrakeRadio] Re: TR-3 T/R Switching
To: DrakeRadio@yahoogroups.com
Date: Friday, October 10, 2008, 7:08 AM

Chuck,

I agree with Garey. As Garey indicated, there is no simple
modification to incorporate an IF shift circuit with any of the
standard TR3/TR4 transceivers, excluding the TR4CW/RIT of course.

If power is one of the reasons for selecting the TR3 you would be
better off with an external linear amplifier and separates (T4XB/R4B
or T4XC/R4C) than a TR3. Any of the separates will work together,
that's the beauty of the Drake separates. You don't have to have a
matched set, i.e. T4XB and an R4B. For example, you can mate a T4XC
with an R4B or a T4XB and an R4C.

Another thing you may not have thought of. The moment you drill a hole
in the TR3's front panel for the IF Shift control is the moment that
TR3's monetary value drops tremendously regardless whether the
modification works or not.

73
Mike
W5RKL

--- In DrakeRadio@yahoogro ups.com, Garey Barrell <k4oah@...> wrote:
>
> Chuck -
>
> I see Larry has answered your question on the TR-3, and that your
> membership has been approved.! Welcome.

>
> The TR-3 does require manual switching from transmit to receive for
> CW. It was designed as a mobile SSB transceiver, and CW was
definitely
> an afterthought. The TR-4s are better, but all, with the exception of
> the 'rare' TR-4CwRIT are not a lot better suited to CW. While the
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> satisfied with any of the Twins for CW. ALL have excellent
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> and transmitter over a transceiver any day. I have several 7 lines and
> a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use
> transceive for CW. I'm about 95% CW, and have been for 50+ years.
>
> By the way, there is no simple way to implement either semi-breakin on
> the TR-3, or RIT on any of the TR3/4 series. Likewise there is no
> simple way to implement Passband tuning on any of them.
>
> If you just want a good station for very pleasant CW operation on a
> day-to-day basis, find a nice late A or B Line and set them up. If you
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> better at slicing off a single signal when surrounded by 50 over 9
> signals, as found during low band contest weekends.
>
> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> wa2gju wrote:
> > I am looking at buying a great condition TR-3 but am an avid CW
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> > Switching for the TR-3 and also if there is variable IF-Shift or
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10/9/2008 9:44 AM
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[Non-text portions of this message have been removed]

1306. Re: Filament fuse? TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 13:46:09 UTC
From: Tim Stotenburg
Topic: 1300 Message: 1306

Thank you Mike for your help

Tim Ki6NQT

1307. Re: TR-7A first digit in 14, 21, and 28 MHz

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 14:48:16 UTC
From: Joel
Topic: 1209 Message: 1307

Hi Garey,

I looked at the signals with my scope last night, and found U9027 (Qs) not doing what they should, to confirm that I put in (2) IC sockets for U9027, and U9020, them I switched both IC's, when I took 9027 out nothing change, I removed 9020 and left it out of circuit, insert 9027 in 9020 socket and got the same result as first(no digit) Blank.

So, I now need (1) MC-14510B.
I was also thinking, since the (e) bottom left led in the fore most left digit is bad, I will also need the MHz display assembly, unless I can MacGyver moving led (c) that will never be use to (e) I think that's impossible though.

So, I need (1)MC-14510B, and the MHz display assembly only (just the 2 first digits)

Garey, do you have anything around, or Anyone else with a parts unit that can help. It's a very long process to order from the v4 land, I will be willing to pay something reasonable for these if someone can source them.

Work will continue tonight on the rig, I'm trying to see if I can get it to receive on my local AM station 555 kHz, it sound very very weak, it's just a mile from me, any suggestions.

v44kai.....Joel.

---------- Forwarded message ----------
From: Garey Barrell <k4oah@...>
Date: Tue, Oct 7, 2008 at 2:42 PM
Subject: Re: TR-7A first digit in 14, 21, and 28 MHz
To: Joel <v44kai@...>

Joel -

You're probably going to need a scope to find what is going on. It might help to read the "Display Section" of the Troubleshooting guide. D1 through D6 control "which" digit is illuminated, and "a, b, c, d, e, f, g" what the illuminated digit reads. The key is that the digits are coded and illuminated one at a time from the same set of latches.
I believe you said it was displaying an "8" but with the lower left segment (f) missing. The fact that the digit displayed is NOT a "valid" digit may also be a clue. The latch for the first digit is U9025B, and the "8" line is Pin 10 (Input) and Pin 11 (Output).

Without a multi-trace scope, the best you can probably do is check all of the (Q) lines on U9027 and U9025 to determine if any of them appear to be "stuck". All of them should show pulse activity as the counter runs, and if one or more is always "high", "low", or "open", then that may be the problem. These two chips and associated wiring are the only circuitry unique to that first digit, all the other chips are either associated with other digits or are common to all digits.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.6/1714 - Release Date: 10/8/2008 7:01 AM

[Non-text portions of this message have been removed]

1308. Re: [DrakeRadio] TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 14:43:46 UTC
From: Garey Barrell
Topic: 1294 Message: 1308

Chuck -

OK. That changes the situation a little, but really not all that much.
Granted the RV-3 solves the RIT problem, but you're still giving up the
Passband tuning and narrower IF filter options of the A or B receiver.
Also no Noise Blanker.

T-R switching is by the Function switch, meaning switch between SSB and
X-CW. Heavy wear on an "impossible" to replace switch.

As Mike said, you can "mix and match" among all the 4 Line separates,
although it's not that difficult to find a "pair".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chuck Matteliano wrote:
> Garey,
>
> Well, this TR-3 has the additional RV3 VFO-Speaker and PS-4 power supply with it. So I am assuming that RIT should not be an issue because I can transmit with the VFO on the rig and receive with the RV3? and it should work just as good as a set of twins. As far as the manual switching, I guess I can handle that for a while. I do have an ICOM IC-745 as well but it is on the bench right now with PLL problems that I am trying to resolve. So if I get them both working then I guess I have the best of both worlds.
>
> One question, WHERE is the T/R switch on the TR-3??? I don't see it on the face plate, how is manual switching accomplished?
>
> Chuck
>
> --- On Thu, 10/9/08, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] TR-3 T/R Switching
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, October 9, 2008, 10:19 PM
>
>
>
>
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>

> Chuck -
>
> I see Larry has answered your question on the TR-3, and that your
> membership has been approved.! Welcome.
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> The TR-3 does require manual switching from transmit to receive for
> CW. It was designed as a mobile SSB transceiver, and CW was definitely
> an afterthought. The TR-4s are better, but all, with the exception of
> the 'rare' TR-4CwRIT are not a lot better suited to CW. While the
> TR-4's and the TR-4CW are "semi-breakin" , without RIT they are still not
> very pleasant to use on CW. Believe me, you will be a LOT more
> satisfied with any of the Twins for CW. ALL have excellent
> semi-breakin, and maybe I'm just old, but I'll take a separate receiver
> and transmitter over a transceiver any day. I have several 7 lines and
> a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use
> transceive for CW. I'm about 95% CW, and have been for 50+ years.
>
> By the way, there is no simple way to implement either semi-breakin on
> the TR-3, or RIT on any of the TR3/4 series. Likewise there is no
> simple way to implement Passband tuning on any of them.
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> If you just want a good station for very pleasant CW operation on a
> day-to-day basis, find a nice late A or B Line and set them up. If you
> like contesting or other VERY crowded band situations, the C Line is
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> wa2gju wrote:
>
>> I am looking at buying a great condition TR-3 but am an avid CW
>> Operator. Does anyone know if there is a mod for Semi-Automatic T/R
>> Switching for the TR-3 and also if there is variable IF-Shift or an IF-
>> Shift mod that can be performed to it please?
>>
>> 73's
>> Chuck
>> WA2GJU
>> Buffalo, NY
>>

1309. Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 15:37:43 UTC
From: w5rkl
Topic: 1294 Message: 1309

Chuck,

As Garey said, the RV-3 does change things but only slightly.

However, the RV-3 doesn't change the fact that the transmitter and receiver share the common 9Mhz IF in the TR3 just as in the TR4 series. Any changes done to the TR3's 9Mhz IF to achieve IF shift can lead to reduced transmit and receive gain resulting in improper operation.

Good luck and I'm sure you're going to enjoy your TR3/RV3 combination just as it came from the factory.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Chuck Matteliano <wa2gju@...> wrote:
>
> Mike,
>
> Thanks for the advice. I just wrote to Garey that this TR-3 has the RV-3 VFO and PS-4 with it so RIT is not necessarily a problem. If I were to design an IF-Shift for it, I would put it in it's own can and wire it in so that it could be removed without mod to the chassis or cabinet... I realize the value of a pristine cabinet...!
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>
> Chuck
>
> --- On Fri, 10/10/08, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [DrakeRadio] Re: TR-3 T/R Switching
> To: DrakeRadio@yahoogroups.com
> Date: Friday, October 10, 2008, 7:08 AM
>
>
>
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>
> Chuck,

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> matched set, i.e. T4XB and an R4B. For example, you can mate a T4XC
> with an R4B or a T4XB and an R4C.
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> Another thing you may not have thought of. The moment you drill a hole
> in the TR3's front panel for the IF Shift control is the moment that
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> modification works or not.
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> Mike
> W5RKL
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> --- In DrakeRadio@yahoogro ups.com, Garey Barrell <k4oah@> wrote:
> >
> > Chuck -
> >
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> > very pleasant to use on CW. Believe me, you will be a LOT more
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> > transceive for CW. I'm about 95% CW, and have been for 50+ years.
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> > day-to-day basis, find a nice late A or B Line and set them up. If
you
> > like contesting or other VERY crowded band situations, the C Line is
> > better at slicing off a single signal when surrounded by 50 over 9
> > signals, as found during low band contest weekends.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > wa2gju wrote:
> > > I am looking at buying a great condition TR-3 but am an avid CW
> > > Operator. Does anyone know if there is a mod for Semi-Automatic T/R
> > > Switching for the TR-3 and also if there is variable IF-Shift or
> an IF-
> > > Shift mod that can be performed to it please?
> > >
> > > 73's
> > > Chuck
> > > WA2GJU
> > > Buffalo, NY
> > >
> > >
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> > > Yahoo! Groups Links
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> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg. com
> > > Version: 8.0.173 / Virus Database: 270.7.6/1716 - Release Date:
> 10/9/2008 9:44 AM
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> [Non-text portions of this message have been removed]
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1310. Re: [DrakeRadio] Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 15:50:16 UTC
From: Chuck Matteliano
Topic: 1294 Message: 1310

Well,

I guess I'm in for a ride then.

Where can I get a .pdf copy of the manual?

Chuck

--- On Fri, 10/10/08, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [DrakeRadio] Re: TR-3 T/R Switching
To: DrakeRadio@yahoogroups.com
Date: Friday, October 10, 2008, 11:37 AM

Chuck,

As Garey said, the RV-3 does change things but only slightly.

However, the RV-3 doesn't change the fact that the transmitter and receiver share the common 9Mhz IF in the TR3 just as in the TR4 series. Any changes done to the TR3's 9Mhz IF to achieve IF shift can lead to reduced transmit and receive gain resulting in improper operation.

Good luck and I'm sure you're going to enjoy your TR3/RV3 combination just as it came from the factory.

73
Mike
W5RKL

--- In DrakeRadio@yahoogro ups.com, Chuck Matteliano <wa2gju@...> wrote:
>
> Mike,
>
> Thanks for the advice. I just wrote to Garey that this TR-3 has the RV-3 VFO and PS-4 with it so RIT is not necessarily a problem. If I were to design an IF-Shift for it, I would put it in it's own can and wire it in so that it could be removed without mod to the chassis or cabinet... I realize the value of a pristine cabinet...!
>
> I think either way I will enjoy the rig. I just love the old Drake stuff and I miss my 2C and 2NT terribly. I had a homebrew VFO for my 2NT and I tell ya, that 2C was one of the hottest little receivers I've ever owned. Now I'm sorry I ever sold it.
>
> Chuck
>

> --- On Fri, 10/10/08, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [DrakeRadio] Re: TR-3 T/R Switching
> To: DrakeRadio@yahoogro ups.com
> Date: Friday, October 10, 2008, 7:08 AM
>
>
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>
>
>
> Chuck,
>
> I agree with Garey. As Garey indicated, there is no simple
> modification to incorporate an IF shift circuit with any of the
> standard TR3/TR4 transceivers, excluding the TR4CW/RIT of course.
>
> If power is one of the reasons for selecting the TR3 you would be
> better off with an external linear amplifier and separates (T4XB/R4B
> or T4XC/R4C) than a TR3. Any of the separates will work together,
> that's the beauty of the Drake separates. You don't have to have a
> matched set, i.e. T4XB and an R4B. For example, you can mate a T4XC
> with an R4B or a T4XB and an R4C.
>
> Another thing you may not have thought of. The moment you drill a hole
> in the TR3's front panel for the IF Shift control is the moment that
> TR3's monetary value drops tremendously regardless whether the
> modification works or not.
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogro ups.com, Garey Barrell <k4oah@> wrote:
> >
> > Chuck -
> >
> > I see Larry has answered your question on the TR-3, and that your
> > membership has been approved.! Welcome.
> >
> > The TR-3 does require manual switching from transmit to receive for
> > CW. It was designed as a mobile SSB transceiver, and CW was
> definitely
> > an afterthought. The TR-4s are better, but all, with the exception of
> > the 'rare' TR-4CwRIT are not a lot better suited to CW. While the
> > TR-4's and the TR-4CW are "semi-breakin" , without RIT they are still
> not
> > very pleasant to use on CW. Believe me, you will be a LOT more
> > satisfied with any of the Twins for CW. ALL have excellent

> > semi-breakin, and maybe I'm just old, but I'll take a separate
receiver
> > and transmitter over a transceiver any day. I have several 7 lines
and
> > a Kenwood TS-940SAT. The TR-7 / R-7 pair work fine, but I never use
> > transceive for CW. I'm about 95% CW, and have been for 50+ years.
> >
> > By the way, there is no simple way to implement either
semi-breakin on
> > the TR-3, or RIT on any of the TR3/4 series. Likewise there is no
> > simple way to implement Passband tuning on any of them.
> >
> > If you just want a good station for very pleasant CW operation on a
> > day-to-day basis, find a nice late A or B Line and set them up. If
you
> > like contesting or other VERY crowded band situations, the C Line is
> > better at slicing off a single signal when surrounded by 50 over 9
> > signals, as found during low band contest weekends.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > wa2gju wrote:
> > > I am looking at buying a great condition TR-3 but am an avid CW
> > > Operator. Does anyone know if there is a mod for Semi-Automatic T/R
> > > Switching for the TR-3 and also if there is variable IF-Shift or
> an IF-
> > > Shift mod that can be performed to it please?
> > >
> > > 73's
> > > Chuck
> > > WA2GJU
> > > Buffalo, NY
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> > >
> > > No virus found in this incoming message.

> > > Checked by AVG - http://www.avg. com
> > > Version: 8.0.173 / Virus Database: 270.7.6/1716 - Release Date:
> 10/9/2008 9:44 AM
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> [Non-text portions of this message have been removed]
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1311. Re: [DrakeRadio] Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 18:40:00 UTC
From: Garey Barrell
Topic: 1294 Message: 1311

Chuck -

You should receive a notification shortly that the TR-3 Manual download
is available, with a link.

Let me know if you have any problems getting it

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chuck Matteliano wrote:
> Well,
>
> I guess I'm in for a ride then.
>
> Where can I get a .pdf copy of the manual?
>
> Chuck
>
>

1312. Drake 2b hum from rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 18:44:00 UTC
From: elan paim
Topic: 1312 Message: 1312

Hello
is any one can let me know what cap need to be change in the rx ?
is it x2 100uf -250v ?
and x2 10uf-250 v ?
and what Else NeWS to change ?
it is not the tube making the hum i did change them ,
any help from any UK where to buy capacitor ?
i try RS but they sell 100uf at 400v i do not think it is good
thank you for any support
good weekend

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

1313. More on the 30M crystal question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 19:01:04 UTC
From: captcurt2000
Topic: 1313 Message: 1313

OK...I have a couple of sources for the HC6 crystals..

A couple stock the "standard" Drake receive frequencies..in this case, 21.1 for 30M (10.0-10.5mHz)

However, I would like to transceive from the r-4 and the manual says to use the transmit xtal chart. So the chart says 20.8mHz. Seems the source I picked doesn't stocks and has not heard of selling one at 20.8 for 30 M.

Anyone out there actually running a r-4a/T-4x on 30 meters? What freq xtal(s) do I need?

Thanks

Curt

KU8L

1314. Re: [DrakeRadio] Re: TR-3 T/R Switching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 19:10:14 UTC
From: Chuck Matteliano
Topic: 1294 Message: 1314

Garey,

Yes, thank you, I got the file. Excellent!!

73's
Chuck
WA2GJU

--- On Fri, 10/10/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: TR-3 T/R Switching
To: DrakeRadio@yahoogroups.com
Date: Friday, October 10, 2008, 2:40 PM

Chuck -

You should receive a notification shortly that the TR-3 Manual download
is available, with a link.

Let me know if you have any problems getting it

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chuck Matteliano wrote:
> Well,
>
> I guess I'm in for a ride then.
>
> Where can I get a .pdf copy of the manual?
>
> Chuck
>
>

[Non-text portions of this message have been removed]

1315. RE: [DrakeRadio] Drake 2b hum from rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 19:14:03 UTC
From: W6CCD
Topic: 1312 Message: 1315

Elan -

It is OK to use a capacitor with a higher voltage rating as long as it will fit in the space.

Dick - W6CCD

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of elan paim
Sent: Friday, October 10, 2008 11:44 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake 2b hum from rx

Hello
is any one can let me know what cap need to be change in the rx ?
is it x2 100uf -250v ?
and x2 10uf-250 v ?
and what Else NeWS to change ?
it is not the tube making the hum i did change them ,
any help from any UK where to buy capacitor ?
i try RS but they sell 100uf at 400v i do not think it is good
thank you for any support
good weekend

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1316. Re: [DrakeRadio] More on the 30M crystal question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 19:23:16 UTC
From: Garey Barrell
Topic: 1313 Message: 1316

Curt -

20.8 Mhz is the correct frequency. 21.1 is ok for receive ONLY.
Difference is due to 21.1 crystal produces in-band spurious products in
the 10.1 to 10.15 range and must not be used for transmitters.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> OK...I have a couple of sources for the HC6 crystals..
>
> A couple stock the "standard" Drake receive frequencies..in this case,
> 21.1 for 30M (10.0-10.5mHz)
>
> However, I would like to transceive from the r-4 and the manual says
> to use the transmit xtal chart. So the chart says 20.8mHz. Seems the
> source I picked doesn't stocks and has not heard of selling one at
> 20.8 for 30 M.
>
> Anyone out there actually running a r-4a/T-4x on 30 meters? What
> freq xtal(s) do I need?
>
> Thanks
>
> Curt
>
> KU8L
>
>

1317. RE: [DrakeRadio] Drake 2b hum from rx

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-10 19:36:14 UTC
From: elan paim
Topic: 1312 Message: 1317

hello Dick
ok Many thanks for this info

vy73
and all the best
Elan g0uut

--- On Fri, 10/10/08, W6CCD <w6ccd@...> wrote:

From: W6CCD <w6ccd@...>
Subject: RE: [DrakeRadio] Drake 2b hum from rx
To: DrakeRadio@yahoogroups.com
Date: Friday, 10 October, 2008, 8:14 PM

Elan -

It is OK to use a capacitor with a higher voltage rating as long as it will
fit in the space.

Dick - W6CCD

-----Original Message-----
From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
Behalf Of elan paim
Sent: Friday, October 10, 2008 11:44 AM
To: DrakeRadio@yahoogro ups.com
Subject: [DrakeRadio] Drake 2b hum from rx

Hello
is any one can let me know what cap need to be change in the rx ?
is it x2 100uf -250v ?
and x2 10uf-250 v ?
and what Else NeWS to change ?
it is not the tube making the hum i did change them ,
any help from any UK where to buy capacitor ?
i try RS but they sell 100uf at 400v i do not think it is good
thank you for any support
good weekend

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1318. RE: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 07:07:15 UTC
From: elan paim
Topic: 1312 Message: 1318

is any one can point me to web or link where is some picture of how to refiles
the new capacitor to the old cartridge , i did see it but lost the link
this is for the drake 2b thank you

vy73
and all the best
Elan g0uut

--- On Fri, 10/10/08, W6CCD <w6ccd@...> wrote:

From: W6CCD <w6ccd@...>
Subject: RE: [DrakeRadio] Drake 2b hum from rx
To: DrakeRadio@yahoogroups.com
Date: Friday, 10 October, 2008, 8:14 PM

Elan -

It is OK to use a capacitor with a higher voltage rating as long as it will
fit in the space.

Dick - W6CCD

-----Original Message-----
From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
Behalf Of elan paim
Sent: Friday, October 10, 2008 11:44 AM
To: DrakeRadio@yahoogro ups.com
Subject: [DrakeRadio] Drake 2b hum from rx

Hello
is any one can let me know what cap need to be change in the rx ?
is it x2 100uf -250v ?
and x2 10uf-250 v ?
and what Else NeWS to change ?
it is not the tube making the hum i did change them ,
any help from any UK where to buy capacitor ?
i try RS but they sell 100uf at 400v i do not think it is good
thank you for any support
good weekend

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1319. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 14:46:28 UTC
From: Garey Barrell
Topic: 1312 Message: 1319

Elan -

>>>>>>>>>>>
Garey, as a follow-up to my previous e-mail: I received a notice this
morning which indicated that my e-mail to Elan had bounced at
Paimg0uut@.... I have sent another e-mail to him at
elan.paimsadeh@... . If there's any way you could let him
know that I'm trying to reach him I'd really appreciate it.

Thank you, sir!
Tom

Tom at Hayseed Hamfest wrote:
Garey, I was contacted a day or two ago by Elan and I replied to him at
Paimg0uut@... . However, I did not receive any word back from
him.

He was inquiring about the cost to Priority ship the 2-B recap kit to
the U.K., which is $13.30 USD.

I stock the capacitor re-cap kit he needs at $21.95 USD.

Could you post this to the DrakeRadio List in case my e-mail to him went
astray?

Tnx es73,
Tom NØJMY
sales@...
<<<<<<<<<<<<<<<<<<<<<<<<<

The "restuffing" is described several places.

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/FilterCapacitorRebuilding.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> is any one can point me to web or link where is some picture of how to refiles
> the new capacitor to the old cartridge , i did see it but lost the link
> this is for the drake 2b thank you
>
>
> vy73
> and all the best

> Elan g0uut
>
>
>
> --- On Fri, 10/10/08, W6CCD <w6ccd@...> wrote:
>
> From: W6CCD <w6ccd@...>
> Subject: RE: [DrakeRadio] Drake 2b hum from rx
> To: DrakeRadio@yahoogroups.com
> Date: Friday, 10 October, 2008, 8:14 PM
>
>
>
>
>
>
>
> Elan -
>
> It is OK to use a capacitor with a higher voltage rating as long as it will
> fit in the space.
>
> Dick - W6CCD
>
> -----Original Message-----
> From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
> Behalf Of elan paim
> Sent: Friday, October 10, 2008 11:44 AM
> To: DrakeRadio@yahoogro ups.com
> Subject: [DrakeRadio] Drake 2b hum from rx
>
> Hello
> is any one can let me know what cap need to be change in the rx ?
> is it x2 100uf -250v ?
> and x2 10uf-250 v ?
> and what Else NeWS to change ?
> it is not the tube making the hum i did change them ,
> any help from any UK where to buy capacitor ?
> i try RS but they sell 100uf at 400v i do not think it is good
> thank you for any support
> good weekend
>
> vy73
> and all the best
> Elan g0uut
>
>
>

1320. R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 17:58:43 UTC
From: tnham63
Topic: 1320 Message: 1320

Well I replaced 12BZ6 (V1),6HS6 (V2), 6KZ8 (V8)
AND 12BE6 (V3), And results are the same. Still dead on 15/10 mtrs
and down on 20mtrs. Any suggestions on resistors to check
or replace would be appreciated.

tnx WINK
WA8KOQ

1321. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 18:12:47 UTC
From: elan paim
Topic: 1312 Message: 1321

Hello Garey /Tom
got the e-mail and the link thank you very much for this info
however i see only 4 cap need to be change in the psu is this correct ?

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

1322. Re: [DrakeRadio] R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 18:26:14 UTC
From: Garey Barrell
Topic: 1320 Message: 1322

Wink -

OK. This indicates that the problem is with V1 or V8 and associated circuitry.

Have you tried Transceive operation with the transmitter using XMIT control. This can eliminate the Band Oscillator and PreMixer stages (V8) if the level is considerably higher.

Check the voltage at TP-3 with a VTVM. Should read at least -1.5 to -2 VDC or better on all bands.

Check the PTO Output Coupler (T12) adjustment per Section VII, Paragraph F.

Do the four trimmers for each of the higher bands actually tune to a peak when listening to the Calibrator?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Well I replaced 12BZ6 (V1),6HS6 (V2), 6KZ8 (V8)
> AND 12BE6 (V3), And results are the same. Still dead on 15/10 mtrs
> and down on 20mtrs. Any suggestions on resistors to check
> or replace would be appreciated.
>
> tnx WINK
> WA8KOQ
>
>
>

1323. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 18:39:11 UTC
From: Garey Barrell
Topic: 1312 Message: 1323

Elan -

The can electrolytic is a four section. There is one additional electrolytic cap, C78, (10 uF @ 25 VDC) that Tom includes as part of his "kit". Not an expensive cap, and well worth replacing while you have the receiver open.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey /Tom
> got the e-mail and the link thank you very much for this info
> however i see only 4 cap need to be change in the psu is this correct ?
>
>
> vy73
> and all the best
> Elan g0uut
>
>

1324. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:08:31 UTC
From: elan paim
Topic: 1312 Message: 1324

Hello Garey
many thanks for this info
however can you let me know where is this 4 cap are in the rx? and the c78 cap is ?

vy73
and all the best
Elan g0uut

--- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
To: DrakeRadio@yahoogroups.com
Date: Saturday, 11 October, 2008, 7:39 PM

Elan -

The can electrolytic is a four section. There is one additional
electrolytic cap, C78, (10 uF @ 25 VDC) that Tom includes as part of his
"kit". Not an expensive cap, and well worth replacing while you have
the receiver open.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey /Tom
> got the e-mail and the link thank you very much for this info
> however i see only 4 cap need to be change in the psu is this correct ?
>
>
> vy73
> and all the best
> Elan g0uut
>
>

[Non-text portions of this message have been removed]

1325. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:16:38 UTC
From: Garey Barrell
Topic: 1312 Message: 1325

Elan -

The four PS caps are all located in the aluminum "can" capacitor. This
can type is what is supplied by Tom at Hayseed Hamfest. It is a drop-in
replacement. You can see what it looks like at
<http://www.hayseedhamfest.com/capkit.htm>

C78 is mounted under the chassis, and is connected between V9, Pin 2 and
chassis.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey
> many thanks for this info
> however can you let me know where is this 4 cap are in the rx? and the c78 cap is ?
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogroups.com
> Date: Saturday, 11 October, 2008, 7:39 PM
>
>
>
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>
> Elan -
>
> The can electrolytic is a four section. There is one additional
> electrolytic cap, C78, (10 uF @ 25 VDC) that Tom includes as part of his
> "kit". Not an expensive cap, and well worth replacing while you have
> the receiver open.

>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> elan paim wrote:
>
>> Hello Garey /Tom
>> got the e-mail and the link thank you very much for this info
>> however i see only 4 cap need to be change in the psu is this correct ?
>>
>>
>> vy73
>> and all the best
>> Elan g0uut
>>
>

1326. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:25:02 UTC
From: elan paim
Topic: 1312 Message: 1326

Hello Garey
yes found this , sorry to be a pain but the othere 4 cap can you let me know
where in the diagram what c are they ?
thank you very much for this help

vy73
and all the best
Elan g0uut

--- On Sat, 11/10/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
To: DrakeRadio@yahoogroups.com
Date: Saturday, 11 October, 2008, 8:16 PM

Elan -

The four PS caps are all located in the aluminum "can" capacitor. This
can type is what is supplied by Tom at Hayseed Hamfest. It is a drop-in
replacement. You can see what it looks like at
<http://www.hayseedh amfest.com/ capkit.htm>

C78 is mounted under the chassis, and is connected between V9, Pin 2 and
chassis.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey
> many thanks for this info
> however can you let me know where is this 4 cap are in the rx? and the c78 cap is ?
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring. com> wrote:
>
> From: Garey Barrell <k4oah@mindspring. com>

> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogro ups.com
> Date: Saturday, 11 October, 2008, 7:39 PM
>
>
>
>
>
>
> Elan -
>
> The can electrolytic is a four section. There is one additional
> electrolytic cap, C78, (10 uF @ 25 VDC) that Tom includes as part of his
> "kit". Not an expensive cap, and well worth replacing while you have
> the receiver open.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> elan paim wrote:
>
>> Hello Garey /Tom
>> got the e-mail and the link thank you very much for this info
>> however i see only 4 cap need to be change in the psu is this correct ?
>>
>>
>> vy73
>> and all the best
>> Elan g0uut
>>
>

[Non-text portions of this message have been removed]

1327. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:28:40 UTC
From: Garey Barrell
Topic: 1312 Message: 1327

Elan -

The four section cap is C70a, b, c and d. Just to the right of V10 on
the schematic.

73, Garey - K4OAH
Glen Allen, VA

elan paim wrote:

> Hello Garey
> yes found this , sorry to be a pain but the othere 4 cap can you let me know
> where in the diagram what c are they ?
> thank you very much for this help
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogroups.com
> Date: Saturday, 11 October, 2008, 8:16 PM
>
>

1328. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:39:25 UTC
From: elan paim
Topic: 1312 Message: 1328

Hello Garey
thank you very much for this info and help
you have a good weekend now
many thanks for the information

vy73
and all the best
Elan g0uut

--- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
To: DrakeRadio@yahoogroups.com
Date: Saturday, 11 October, 2008, 8:28 PM

Elan -

The four section cap is C70a, b, c and d. Just to the right of V10 on
the schematic.

73, Garey - K4OAH
Glen Allen, VA

elan paim wrote:

> Hello Garey
> yes found this , sorry to be a pain but the othere 4 cap can you let me know
> where in the diagram what c are they ?
> thank you very much for this help
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring. com> wrote:
>
> From: Garey Barrell <k4oah@mindspring. com>
> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogro ups.com
> Date: Saturday, 11 October, 2008, 8:16 PM
>
>

[Non-text portions of this message have been removed]

1329. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:44:04 UTC
From: Garey Barrell
Topic: 1312 Message: 1329

Elan -

One last bit.

Section IDs of original cap.

C70a = Half Round mark
C70b = Triangle
C70c = Square
C70d = Blank

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey
> thank you very much for this info and help
> you have a good weekend now
> many thanks for the information
>
>
> vy73
> and all the best
> Elan g0uut
>

1330. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 19:49:54 UTC
From: elan paim
Topic: 1312 Message: 1330

Hello Garey
sorry what this mean ? is it the shap ? are they all axil shap cap ?or vart?

vy73
and all the best
Elan g0uut

--- On Sat, 11/10/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
To: DrakeRadio@yahoogroups.com
Date: Saturday, 11 October, 2008, 8:44 PM

Elan -

One last bit.

Section IDs of original cap.

C70a = Half Round mark
C70b = Triangle
C70c = Square
C70d = Blank

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

elan paim wrote:
> Hello Garey
> thank you very much for this info and help
> you have a good weekend now
> many thanks for the information
>
>
> vy73
> and all the best
> Elan g0uut
>

[Non-text portions of this message have been removed]

1331. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 20:22:12 UTC
From: Garey Barrell
Topic: 1312 Message: 1331

The "shapes" are identifying marks molded into the base of the original
can type capacitor to identify which of the four terminals is associated
with which capacitor section, C70a, b, c or d.

73, Garey - K4OAH
Glen Allen, VA

elan paim wrote:
> Hello Garey
> sorry what this mean ? is it the shap ? are they all axil shap cap ?or vart?
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogroups.com
> Date: Saturday, 11 October, 2008, 8:44 PM
>
>
>
>
>
>
>
> Elan -
>
> One last bit.
>
> Section IDs of original cap.
>
> C70a = Half Round mark
> C70b = Triangle
> C70c = Square
> C70d = Blank
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

> <www.k4oah.com>
>
> elan paim wrote:
>
>> Hello Garey
>> thank you very much for this info and help
>> you have a good weekend now
>> many thanks for the information
>>
>>
>> vy73
>> and all the best
>> Elan g0uut
>>

1332. Re: [DrakeRadio] Drake 2b capacitor refiles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 20:30:50 UTC
From: elan paim
Topic: 1312 Message: 1332

ok Garey
many thanks for the extra info .

vy73
and all the best
Elan g0uut

--- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
To: DrakeRadio@yahoogroups.com
Date: Saturday, 11 October, 2008, 9:22 PM

The "shapes" are identifying marks molded into the base of the original
can type capacitor to identify which of the four terminals is associated
with which capacitor section, C70a, b, c or d.

73, Garey - K4OAH
Glen Allen, VA

elan paim wrote:
> Hello Garey
> sorry what this mean ? is it the shap ? are they all axil shap cap ?or vart?
>
>
> vy73
> and all the best
> Elan g0uut
>
>
>
> --- On Sat, 11/10/08, Garey Barrell <k4oah@mindspring. com> wrote:
>
> From: Garey Barrell <k4oah@mindspring. com>
> Subject: Re: [DrakeRadio] Drake 2b capacitor refiles
> To: DrakeRadio@yahoogro ups.com
> Date: Saturday, 11 October, 2008, 8:44 PM
>
>
>
>
>
>
>
> Elan -
>

> One last bit.
>
> Section IDs of original cap.
>
> C70a = Half Round mark
> C70b = Triangle
> C70c = Square
> C70d = Blank
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> elan paim wrote:
>
>> Hello Garey
>> thank you very much for this info and help
>> you have a good weekend now
>> many thanks for the information
>>
>>
>> vy73
>> and all the best
>> Elan g0uut
>>

[Non-text portions of this message have been removed]

1333. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 20:36:42 UTC
From: tnham63
Topic: 1320 Message: 1333

Garey-
Transceive operation seems the same on receive , very low on 15/10.
TP-3 voltages :
80m 3.2
40m 2.6
20m 2.9
15m 2.6
10m 2.3
Guess I'm stopped at T12 adjustment -- I don't have a VTVM with
RF probe. The trimmers seem to have some peak at higher bands but not
much.

WINK
WA8KOQ

>
> Wink -
>
> OK. This indicates that the problem is with V1 or V8 and
associated
> circuitry.
>
> Have you tried Transceive operation with the transmitter using XMIT
> control. This can eliminate the Band Oscillator and PreMixer
stages
> (V8) if the level is considerably higher.
>
> Check the voltage at TP-3 with a VTVM. Should read at least -1.5
to -2
> VDC or better on all bands.
>
> Check the PTO Output Coupler (T12) adjustment per Section VII,
Paragraph F.
>
> Do the four trimmers for each of the higher bands actually tune to
a
> peak when listening to the Calibrator?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

>
> tnham63 wrote:
> > Well I replaced 12BZ6 (V1),6HS6 (V2), 6KZ8 (V8)
> > AND 12BE6 (V3), And results are the same. Still dead on 15/10 mtrs
> > and down on 20mtrs. Any suggestions on resistors to check
> > or replace would be appreciated.
> >
> > tnx WINK
> > WA8KOQ
> >
> >
> >
>

1334. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 21:10:31 UTC
From: Garey Barrell
Topic: 1320 Message: 1334

Wink -

OK. The RF Probe is not a big deal, see an excellent explanation at

<http://www.io.com/~n5fc/rfprobe1.htm>

You don't need absolute accuracy, just an indication of RF that can be used to peak the slugs in T12. The fact that sensitivity doesn't improve in Transceive control makes this adjustment much less likely to be the problem.

A VTVM is not absolutely necessary, but an analog meter is easiest to use when attempting to peak an adjustment.

Are all four slugs on the Preselector rack at exactly the same "height", or are they different? Later R-4 receivers were designed such that the slugs were all the same height, while the R-4 slugs were designed to be individually adjusted. I'm wondering if someone might have "adjusted" them per a later alignment procedure..... Do the adjusters have a thread locking matter on them, or are they clean?

Have you performed the Bias Adjustment procedure, Section VII, Para L, by adjusting the S-Meter "0" and then adjusting R40 for a Calibrator reading of 20 dB over S9 at 3.8 MHz?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Garey-
> Transceive operation seems the same on receive , very low on 15/10.
> TP-3 voltages :
> 80m 3.2
> 40m 2.6
> 20m 2.9
> 15m 2.6
> 10m 2.3
> Guess I'm stopped at T12 adjustment -- I don't have a VTVM with
> RF probe. The trimmers seem to have some peak at higher bands but not
> much.
>
> WINK
> WA8KOQ
>

>
>

1335. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 21:21:57 UTC
From: Garey Barrell
Topic: 1320 Message: 1335

Wink -

Also, inspect C38, a small cylindrical capacitor between the top of T3 and T4 secondaries.

Also check resistance of R52.

73, Garey - K4OAH
Glen Allen, VA

tnham63 wrote:
> Garey-
> Transceive operation seems the same on receive , very low on 15/10.
> TP-3 voltages :
> 80m 3.2
> 40m 2.6
> 20m 2.9
> 15m 2.6
> 10m 2.3
> Guess I'm stopped at T12 adjustment -- I don't have a VTVM with
> RF probe. The trimmers seem to have some peak at higher bands but not
> much.
>
> WINK
> WA8KOQ
>
>
>

1336. Free WV-4 Meter scale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-11 23:42:24 UTC
From: DALE PARFITT
Topic: 1336 Message: 1336

Don found this scale in his junk box and would like to see it get used.
Contact him at:
w4dee@...

73,
Dale W4OP

1337. R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-12 17:40:55 UTC
From: tnham63
Topic: 1320 Message: 1337

Garey,
The Preselector rack has thread lock on the top of the slugs, and
they are at little different heights.Not drastic.
S-meter was adjusted, can't get 20 db over though, but I calibrated it
and it is same as another receiver on receive.
I'm not sure of the location of C38 and R52. I have your C-Line CD and
the 2B CD. Would it be on the R-4C CD or do I need your
B- Line CD?
I have peaked all the trimmer caps....

Thanks again
WINK
WA8KOQ

1338. Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-13 01:08:38 UTC
From: john baker
Topic: 1278 Message: 1338

Thanks Garey,
I had assumed that each of the brands made tubes that would mix and match - with or without identicle model numbers - with other brands' specs. Appearantly I assumed wrong.

Really appreciate all the input. Am learning sooo much here. I remember we were the last family in the neighborhood to get a color tv... cause my dad was always replacing the tubes and tuners in that old Zenith b&w set. My first HF rig was, is, a Kenwood TS-520 handed down from a good friend fo the family. Then, to go mobile in my jeep, I went for an Icom 706mkiig. The Kenwood has tube finals, a hybrid, but I wanted something that was a total boat anchor to learn more from and understand our history a bit better. I seem to have the full evolution in my shack now. =)

Never was one to do something just because that is what you are supposed to do. I always need to know why that was the appropriate thing to do. Get's me in trouble at work sometimes too. This was great insight. Learning more and more. Thanks so much.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> JB -
>
> I'm sure they ARE a "quality" tube. Just that they were designed
to be
> used at 15.575 kHz, NOT 28 MHz.
>
> The Sylvania 6JB6 was ALSO designed for 15.575 kHz use, BUT
Sylvania
> took the trouble to test and characterize several of their sweep
tubes
> for use as Linear RF amplifiers. Probably why Drake used Sylvania
> 6JB6s in the original design. Sylvania also made all Zenith
branded
> tubes, so they work just as well. RCA and GE brands also work
within
> the adjustment range of the neutralization cap in the Drake gear.
Any
> other branded 6JB6s may or may not work (neutralize) depending upon
who

> actually made the tubes. Stick with 6JB6 or 6GJ5 of these four
brands
> and you will be ok. Anything else may or may not work, at least
not
> without modification of the transmitter neutralization network.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> john baker wrote:
> > Ha! Yeah, thanks Mike. Rub it in...
> >
> > These are GEs. Look new. Have people had problems with them? I
> > would have thought they were a quality tube.
> >
> > jb
> > kg6biw
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@> wrote:
> >
> >> I think we all know who it is. He's been doing this for over a
> >>
> > year. I know
> >
> >> of three other folks that have tried it, and it will not work.
> >> Neutralization is nearly impossible. And NO, I'm not one of
them. I
> >>
> > will pay
> >
> >> a little more and use only Sylvania tubes in any of my Drake
> >>
> > equipment.
> >
> >> Remember the old saying, "Buyer Beware"
> >>
> >> And that's all I will say for now.
> >>
> >> Mike-K5VSE
> >>
> >> Formerly WB6VSE, Senior Tech. Amateur Division
> >> SBE/Linear Systems, Watsonville, CA
> >> On 3922 nearly every night.

> >> WEB Site: http://members.tripod.com/~sjsharks/index.html
> >> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> >> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> >> APA 220, USS Okanogan, LSD31, USS Point Defiance
> >> All email scanned with Norton 2008
> >> "In God We Trust"
> >>
>

1339. Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-13 01:22:04 UTC
From: john baker
Topic: 1278 Message: 1339

Oh! Listen. No appology needed. I appreciate your comment. My comments were just laughing at it. It was only the seller's fault that I got the wrong items.

As I elaborated in response to Garey's post, I assumed all brands had models that cross-referred equally and just thought you were being biased towards a specific brand name only. Didn't understand that GE might not have a tube that had the same design specs as the 6jb6. I will be sending these back. They were not what I purchased and feel somewhat deceived at the moment.

Appreciate your honesty. Hate sugar coating; it is always misleading.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> Sorry John,
>
> I didn't mean to get up upset, but I can only tell you what I have learned
> over the many years I've been in this industry. I may have some KM6's out in
> the shop, and just might try to see what mods can be made in the
> neutralization circuits to make them work, if I can find the time.
>
> It will get better, I promise.
>
> 73,
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2008
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

1340. New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 13:09:23 UTC
From: bosonob2000
Topic: 1340 Message: 1340

I recently acquired a excellent condition R-4B and it seems to work well on all bands, calibrates etc. I was curious about a few of things.

How does the dial read? Does it read the carrier freq for CW and SSB?

Is there a BFO offset or is it zero beat with the I.F?

The passband tuner is mostly symmetric with noise pitch, however on 0.4 the left horizontal knob position noise is slightly lower in pitch than the right horizontal position. Looking at the spectrum the passband moves out slightly farther at the right horizontal position. USB/LSB receive fine. BTW, how does that passband tuner work? usually you have to shift VFO and BFO to get passband tuning i.e. Collins 75A4

Also on 0.4 should the center of the passband give the highest CAL reading on S meter? It does for all the bandwidths also. It also gives the lowest audio without antenna/CaL.

The PTO is mostly linear. It feels very good with no wiggle. The person I got it from used the T4X PTO most of the time so it feels like 1968. Nope, no oil or grease:) I assume that there is no easy PTO linearity adjust. For instance at 1.00 end the CAL zerobeat is at +2Kc.

How warm should the PS get? I know its crankin Class A with the 6EH5 but the PS transformer gets a little hot. not extreme and you can touch it without burns.

I have some IERC tube shields. Should I use them? I admit to never seeing any Drake gear with shields other than the 1st RF etc.

I have read the manual/alignment that came with it but was curious.

73's
KF4UEO
Stefan

1341. Re: [DrakeRadio] New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 14:00:31 UTC
From: Garey Barrell
Topic: 1340 Message: 1341

Stefan -

That's a bunch of good questions! I'll try....

bosonob2000 wrote:
> How does the dial read? Does it read the carrier freq for CW and SSB?
>

The dial reads the suppressed carrier frequency on SSB. It reads the Carrier frequency on CW when the signal is tuned to zero beat.

> Is there a BFO offset or is it zero beat with the I.F?
>

The BFO is at zero beat with the IF center frequency when the Passband Tuner is set to the center of the bandwidth lines
.
> The passband tuner is mostly symmetric with noise pitch, however on
> 0.4 the left horizontal knob position noise is slightly lower in pitch
> than the right horizontal position. Looking at the spectrum the
> passband moves out slightly farther at the right horizontal position.
> USB/LSB receive fine. BTW, how does that passband tuner work? usually
> you have to shift VFO and BFO to get passband tuning i.e. Collins 75A4
>

The pitch of the noise should be the same at the dots at the end of each line on the Passband Tuner knob for each bandwidth.

The reason for the difference with the 75A-4 is simple. In the 75A-4, there is a single, fixed mechanical filter centered on the IF frequency. The Sideband is chosen by moving the BFO to one side or the other of this fixed bandwidth. Since the BFO is moving, the PTO frequency must also be moved to keep the receiver tuned to the "same" frequency.

The Passband Tuner in the Drake receivers is a filter than can be moved in frequency while maintaining a constant bandwidth. So in this case, the Sideband is chosen by moving the passband itself to either side of a fixed BFO. Since the BFO doesn't change frequency, the PTO doesn't have to either!

The trade-off is that while the mechanical filter provides a very steep-sided passband, you must have a separate, expensive filter for each bandwidth. With the L-C Passband Tuner, the four filter sections are made tunable by a rack that moves the four inductor slugs to move the center frequency over a narrow band, while fixed capacitors are switched in to maintain resonance and adjust coupling between the

sections to keep the bandwidth constant as it is moved. The trade-off here is that the bandwidth is not as steep-sided as a mechanical or crystal filter.

Personally, for day-to-day operation, especially in the relatively uncrowded bands today I actually prefer the gentler slopes that allow you to hear what is going on around your frequency, just at a reduced level. If you are into contesting, where you have 10 signals that are all 50 over S9 jammed into a 2 kHz section of the band, you may prefer a mechanical or crystal filter as in the R--4C.

> Also on 0.4 should the center of the passband give the highest CAL
> reading on S meter? It does for all the bandwidths also. It also gives
> the lowest audio without antenna/CaL.
>

When the Passband Tuner is set to the center of the line for a particular bandwidth, the filter is centered in the IF, and so the strongest signal will be at zero beat. It is also "hearing" the "center" of the IF, e.g., for the 400 Hz b/w you are listening to the band of audio from 200 Hz in the LSB, to 0 Hz, and up to 200 Hz of the USB.

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> person I got it from used the T4X PTO most of the time so it feels
> like 1968. Nope, no oil or grease:) I assume that there is no easy PTO
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> seeing any Drake gear with shields other than the 1st RF etc.

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The IERC shields are better than a bright metal shield, but not better than NO shield. The IERC shields can reduce the envelope temperature of a tube, but really don't make much difference unless there is sufficient air movement to get the heat away from the area. The best thing you can do to reduce the temperature of the receiver, and extend the life of all components is to add a small fan either on top (over the 6EH5) or at the back of the receiver blowing air _OUT_ and away from the area. It doesn't have to be a wind tunnel, just a gentle, silent fan to help the natural convection airflow. The only tube needing a shield is the RF Amplifier, and an IERC shield here will probably extend the life of the -BZ6.

> I have read the manual/alignment that came with it but was curious.
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That's a good start!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1342. Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 16:32:02 UTC
From: bosonob2000
Topic: 1340 Message: 1342

Garey,

Do I need to check the audio caps and the powersupply cap? The supply voltages I checked were within a volt for all the tubes B+ as listed in the manual. I just want to make sure that the 6EH5 is not drawing too much current.

BTW, I notice early R4B's had a OA2(I think?) regulator for the B+. Why not regulate the voltage? Also why did they use the B+ for PTO voltages? Would it be better to get a modern TO regulator and feed the PTO off of that?

73's
Stefan

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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> Stefan -
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> That's a bunch of good questions! I'll try....
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> bosonob2000 wrote:
> > How does the dial read? Does it read the carrier freq for CW and SSB?
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> The dial reads the suppressed carrier frequency on SSB. It reads the
> Carrier frequency on CW when the signal is tuned to zero beat.
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> > Is there a BFO offset or is it zero beat with the I.F?
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> Tuner is set to the center of the bandwidth lines
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> > The passband tuner is mostly symmetric with noise pitch, however on
> > 0.4 the left horizontal knob position noise is slightly lower in pitch
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> > you have to shift VFO and BFO to get passband tuning i.e. Collins 75A4
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> The pitch of the noise should be the same at the dots at the end of
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> line on the Passband Tuner knob for each bandwidth.

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> The reason for the difference with the 75A-4 is simple. In the 75A-4,
> there is a single, fixed mechanical filter centered on the IF
> frequency. The Sideband is chosen by moving the BFO to one side or the
> other of this fixed bandwidth. Since the BFO is moving, the PTO
> frequency must also be moved to keep the receiver tuned to the "same"
> frequency.
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> The Passband Tuner in the Drake receivers is a filter than can be moved
> in frequency while maintaining a constant bandwidth. So in this case,
> the Sideband is chosen by moving the passband itself to either side
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> fixed BFO. Since the BFO doesn't change frequency, the PTO doesn't
> have to either!
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> The trade-off is that while the mechanical filter provides a very
> steep-sided passband, you must have a separate, expensive filter for
> each bandwidth. With the L-C Passband Tuner, the four filter sections
> are made tunable by a rack that moves the four inductor slugs to move
> the center frequency over a narrow band, while fixed capacitors are
> switched in to maintain resonance and adjust coupling between the
> sections to keep the bandwidth constant as it is moved. The trade-off
> here is that the bandwidth is not as steep-sided as a mechanical or
> crystal filter.
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> Personally, for day-to-day operation, especially in the relatively
> uncrowded bands today I actually prefer the gentler slopes that allow
> you to hear what is going on around your frequency, just at a reduced
> level. If you are into contesting, where you have 10 signals that are
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> That's a good start!
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> 73, Garey - K4OAH

> Glen Allen, VA
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>

1343. Re: [DrakeRadio] Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 17:22:46 UTC
From: Garey Barrell
Topic: 1340 Message: 1343

Stefan -

Without an ESR meter, (or equivalent,) correct DC voltages are about all you can do. They're probably fine, just be sure the fuse is correct!

You can measure the voltage across the cathode resistor of the 6EH5, (R44, Pin 1 to ground,) should be about 4.5V, indicating 37 mA assuming the resistor (120 ohms) hasn't changed value.

The 0A2 was removed in Version 2 of the R-4B, (and the PTO was converted from bipolar to FET,) since the tube stages it was originally intended for had been converted to solid state. The big series resistor to supply the Zener regulator in the PTO has been criticized for years, but the fact is that it is an almost ideal current source. The Zener is adequate regulation for the PTO and Band Oscillator as it is being driven from a current source that swamps any changes in the HV source.

A three-terminal regulator "might" be slightly superior in regulation, but of course they weren't available when the R-4B was designed!. At this point, I doubt if the difference would be measurable in frequency stability of the PTO. Again, pulling hot air away from the cabinet to reduce and stabilize the temperature is far more effective in stabilizing the receiver.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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bosonob2000 wrote:
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1344. Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 17:24:19 UTC
From: w5rkl
Topic: 1340 Message: 1344

Hello Stefan,

I'm sure Garey will comment on the regulated B+.

I'm not aware of an OA2 regulator tube in the R4B. That doesn't mean there isn't one, it's just been some time since I owned an R4B. However, looking at the R4B schematic I don't see one.

The PTO's voltage obtained from the B+ in the R4B is the same method used to power the PTO in the R4C. The PTO voltage is obtained from the 150VDC supply through a 4K 5 watt resistor which I'm sure generates some heat.

I agree, the PTO would be better served with a low regulated voltage supply, eliminating the 4K 5 watt dropping resistor.

As for the capacitors, I suspect one of the main key points of information pertaining to a capacitor's condition is the capacitor's leakage current. Based on Sprague's TO-4 capacitor checker's leakage current manual data the two 100ufd 200VDC filter capacitors maximum acceptable leakage current is around 2.3ma and the 8ufd 150VDC filter capacitor's maximum acceptable leakage current is approximately .46ma. To determine a capacitor's maximum acceptable leakage current use the following formula (obtained from Sprague's TO-4 capacitor checker manual):

I (capacitor leakage current) = kc + 0.3

K ------ WVDC
.01 ---- 3 to 100
.02 ---- 101 to 250
.025 --- 251 to 350
.04 ---- 351 to 500

Based on the above K chart, all of the power supply filter capacitors in the R4B would have a K value of .02.

C = capacitance in ufd

You indicated the voltages appear to be within a volt. It appears based on your voltage checks the capacitors are OK, at least for now.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> Garey,

>
> Do I need to check the audio caps and the powersupply cap? The supply
> voltages I checked were within a volt for all the tubes B+ as listed
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1345. Re: [DrakeRadio] Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 17:33:13 UTC
From: Garey Barrell
Topic: 1340 Message: 1345

Mike -

w5rkl wrote:
> Hello Stefan,
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> I'm sure Garey will comment on the regulated B+.
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Now why would you think that! :-)

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> there isn't one, it's just been some time since I owned an R4B.
> However, looking at the R4B schematic I don't see one.
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You must have a Version 2, 3 or 4 schematic. Version 1 still had the
0A2, s/n 7000 through 7999.

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> used to power the PTO in the R4C. The PTO voltage is obtained from the
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Well, the problem is that there is no low voltage supply in the "B" to
regulate from, so you can leave the heat in the resistor or leave it in
a regulator!

> I agree, the PTO would be better served with a low regulated voltage
> supply, eliminating the 4K 5 watt dropping resistor.
>
> As for the capacitors, I suspect one of the main key points of
> information pertaining to a capacitor's condition is the capacitor's
> leakage current. Based on Sprague's TO-4 capacitor checker's leakage
> current manual data the two 100ufd 200VDC filter capacitors maximum
> acceptable leakage current is around 2.3ma and the 8ufd 150VDC filter
> capacitor's maximum acceptable leakage current is approximately .46ma.
> To determine a capacitor's maximum acceptable leakage current use the
> following formula (obtained from Sprague's TO-4 capacitor checker manual):
>
> I (capacitor leakage current) = kc + 0.3
>
> K ------ WVDC
> .01 ---- 3 to 100
> .02 ---- 101 to 250
> .025 --- 251 to 350
> .04 ---- 351 to 500

>
> Based on the above K chart, all of the power supply filter capacitors
> in the R4B would have a K value of .02.
>
> C = capacitance in ufd
>
> You indicated the voltages appear to be within a volt. It appears
> based on your voltage checks the capacitors are OK, at least for now.
>

Agreed, at least for now.......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

>

1346. Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 19:43:23 UTC
From: bosonob2000
Topic: 1340 Message: 1346

Thanks to everybody, what a great group! I have one more pertinent question regarding the audio impedance. I don't have a 4 ohm speaker, but I do have a 600 ohm speaker. I have been running the speaker through the 600 ohm headphone output. I get a room full of audio. Now, Is this OK? I looked at the schematic and really did not see any difference between the 4 ohm and 600 ohm output connections from the output side of the transformer. Usually it is a different tap on the output for 4 or 600 ohm but this one only shows one winding and parallel (or seemingly so) connections to A) the RCA on back and B) the headphone output.

Oh, Can you use the antivox output for HiZ cans like I use on my regen?

Again what a great group!!
KF4UEO
Stefan

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> w5rkl wrote:
> > Hello Stefan,
> >
> > I'm sure Garey will comment on the regulated B+.
> >
>
> Now why would you think that! :-)
>
> > I'm not aware of an OA2 regulator tube in the R4B. That doesn't mean
> > there isn't one, it's just been some time since I owned an R4B.
> > However, looking at the R4B schematic I don't see one.
> >
>
> You must have a Version 2, 3 or 4 schematic. Version 1 still had the
> 0A2, s/n 7000 through 7999.
>
> > The PTO's voltage obtained from the B+ in the R4B is the same method
> > used to power the PTO in the R4C. The PTO voltage is obtained from the
> > 150VDC supply through a 4K 5 watt resistor which I'm sure generates
> > some heat.
> >
>
> Well, the problem is that there is no low voltage supply in the "B" to
> regulate from, so you can leave the heat in the resistor or leave it in
> a regulator!

>
> > I agree, the PTO would be better served with a low regulated voltage
> > supply, eliminating the 4K 5 watt dropping resistor.
> >
> > As for the capacitors, I suspect one of the main key points of
> > information pertaining to a capacitor's condition is the capacitor's
> > leakage current. Based on Sprague's TO-4 capacitor checker's leakage
> > current manual data the two 100ufd 200VDC filter capacitors maximum
> > acceptable leakage current is around 2.3ma and the 8ufd 150VDC filter
> > capacitor's maximum acceptable leakage current is approximately .46ma.
> > To determine a capacitor's maximum acceptable leakage current use the
> > following formula (obtained from Sprague's TO-4 capacitor checker
manual):
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> > I (capacitor leakage current) = kc + 0.3
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> > K ------ WVDC
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> > Based on the above K chart, all of the power supply filter capacitors
> > in the R4B would have a K value of .02.
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> > C = capacitance in ufd
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> > You indicated the voltages appear to be within a volt. It appears
> > based on your voltage checks the capacitors are OK, at least for now.
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> Agreed, at least for now.......
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> 73, Garey - K4OAH
> Glen Allen, VA
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> <www.k4oah.com>
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>
> >
>

1347. Re: [DrakeRadio] Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 20:21:10 UTC
From: Garey Barrell
Topic: 1340 Message: 1347

Stefan -

There is only one output from the R-4 series receivers, and it is 4 ohms. For maximum audio, you need a 600 : 4 ohm transformer, (or a 4 ohm speaker,) regardless of which output you use. The more common 8 ohm speaker will also work quite well, with slightly lower output power capability. The ANTI-VOX output to Hi-Z phones will work, but you may find the signal to noise ratio poor, since you will have to run the AF GAIN control so low to compensate for the very high sensitivity of the phones.

As long as you get sufficient audio from your 600 ohm speaker, it shouldn't hurt anything. Having the output essentially "unloaded" doesn't seem to bother the AF output transformer, although that "can" result in high peak voltages across the input winding.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> parallel (or seemingly so) connections to A) the RCA on back and B)
> the headphone output.
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> Oh, Can you use the antivox output for HiZ cans like I use on my regen?
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> Again what a great group!!
> KF4UEO
> Stefan
>
>
>

1348. Re: New to the forum with an R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-14 22:42:38 UTC
From: w5rkl
Topic: 1340 Message: 1348

Garey,

Well, since I didn't have nothing to contribute concerning the B+ I figured you would... :)

You're right, the schematic I have must be one of those you mentioned. I downloaded it from the Belgium Drake website. I can't tell the serial number, it's too fuzzy or my eye sight's getting worse. Probably a combination of both I'd say.

I'm rewiring a Johnson Viking 1 speech amplifier. What a royal pain in the you know what. Some previous owner didn't know how to wire components and solder, that's for sure! It's not mine. It belongs to a ham friend in Muskogee, about 75 miles north from here. It works but the resistor wiring was horrible. Most of the capacitors were old (wax paper type). Replacing them with new Polyester metal film capacitors from Radio Daze and Mouser. Some of the resistors were parallel combination to achieve the value but, they increased in resistance quite a bit, more than 10%. Replacing them with metal film 5% resistors. Manual's part list has two different values for most resistors. For example, a resistor was listed as 220K OR 240K or 47K OR 51K, I used the common value.

Component sizes sure have changed over the years. For example, the .1ufd 600VDC molded paper and .02ufd 400VDC wax paper bypass caps are 10 times larger, or more, in diameter then the size of the new caps. Not the first time I've done this, replacing 50 year old components with new modern components. The 1 watt resistors today are the size of 1/2 watt old carbon resistors. Of course the Viking 1 was sold in the early to mid 50's, things were different back then. Well, enough of that, this is a Drake forum not a Johnson Viking 1 boat anchor website.... :)

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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> Mike -
>
> w5rkl wrote:
> > Hello Stefan,
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> > 150VDC supply through a 4K 5 watt resistor which I'm sure generates
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> regulate from, so you can leave the heat in the resistor or leave it in
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> Glen Allen, VA
>
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> <www.k4oah.com>
>
>
> >
>

1349. how to clean cooper chassia?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-15 07:35:53 UTC
From: elan paim
Topic: 1349 Message: 1349

hi
is any have tip how to clean cooper chassis of a drake ?

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

1350. Re: [DrakeRadio] Re: 6JB6A Substitute

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-15 12:37:16 UTC
From: Mike-K5VSE
Topic: 1278 Message: 1350

John,

I will admit, one of my TR-4C's does have GE tubes in it. Seems to work just great. But like I said, I only replace any with Sylvania tubes. The GE's were in it when I bought it about a year ago. SRI for the rub, but that's just my personal opinion!

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1351. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-15 13:20:30 UTC
From: tnham63
Topic: 1320 Message: 1351

Garey -- Any help on this yet? Where is C38 and R52?

Thanks
>
> Garey,
> The Preselector rack has thread lock on the top of the slugs, and
> they are at little different heights.Not drastic.
> S-meter was adjusted, can't get 20 db over though, but I calibrated
it
> and it is same as another receiver on receive.
> I'm not sure of the location of C38 and R52. I have your C-Line CD
and
> the 2B CD. Would it be on the R-4C CD or do I need your
> B- Line CD?
> I have peaked all the trimmer caps....
>
> Thanks again
> WINK
> WA8KOQ
>

1352. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-15 14:00:35 UTC
From: Garey Barrell
Topic: 1320 Message: 1352

Wink -

I don't have a CD for the R-4, and the R-4B is considerably different in that area. The general area is between sections 3 and 4 of the bandswitch. The little capacitors that are sticking through holes in the shield between these two wafers are the fractional pF caps coupling the secondaries of T3 and T4. C46 is a 0.82 pF cap, so would have a gray and red color coding stripe. I'm suggesting that you inspect this cap to make sure that it hasn't been damaged physically and/or that the connections at either end are OK. These caps don't fail, in my experience, but someone poking around in the area can damage them. R52 is a 330 ohm, 1/2 W resistor and is connected between the +150V bus and the bottom of the T3 winding. Again, check for physical damage and correct resistance. This resistor is susceptible to damage if someone uses a metal alignment tool to adjust the trimmer caps and allows the tool to short the adjustment screw to the chassis, even momentarily. This is all too easy to do working through those little holes in the chassis. A short here puts the entire 150 VDC across that little resistor. Not good..... If you don't have a non-metallic alignment tool, put a piece of tape or heat-shrink tubing around the screwdriver blade just behind the tip.

R5, a 1.5k, 1/2W resistor is also susceptible to the same problem and should be checked as well. This resistor is connected between a terminal strip mounted on the shield behind the first bandswitch wafer and a terminal on T2

Another thought occurred to me. Have you tried subbing the Calibrator tube??? A weak tube "could" cause this drop-off in output on the higher bands. That would be embarrassing! :-) Calibrators have been solid state for so long .....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Garey -- Any help on this yet? Where is C38 and R52?
>
> Thanks
>
>> Garey,
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>> B- Line CD?
>> I have peaked all the trimmer caps....
>>
>> Thanks again
>> WINK
>> WA8KOQ
>>

1353. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-15 15:58:48 UTC
From: tnham63
Topic: 1320 Message: 1353

Garey,
Yes I have tried swapping the 12BA6 Calibrator tube with
a few others I have and no change. Let me check these other
components and see what I find.
Thanks for the help, will let you know.

73 -- Wink
>
> Wink -
>
> I don't have a CD for the R-4, and the R-4B is considerably
different in
> that area. The general area is between sections 3 and 4 of the
> bandswitch. The little capacitors that are sticking through holes
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> cap to make sure that it hasn't been damaged physically and/or that
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> connections at either end are OK. These caps don't fail, in my
> experience, but someone poking around in the area can damage them.
R52
> is a 330 ohm, 1/2 W resistor and is connected between the +150V bus
and
> the bottom of the T3 winding. Again, check for physical damage
and
> correct resistance. This resistor is susceptible to damage if
someone
> uses a metal alignment tool to adjust the trimmer caps and allows
the
> tool to short the adjustment screw to the chassis, even
momentarily.
> This is all too easy to do working through those little holes in
the
> chassis. A short here puts the entire 150 VDC across that little
> resistor. Not good..... If you don't have a non-metallic
alignment
> tool, put a piece of tape or heat-shrink tubing around the
screwdriver
> blade just behind the tip.
>

> R5, a 1.5k, 1/2W resistor is also susceptible to the same problem
and
> should be checked as well. This resistor is connected between a
> terminal strip mounted on the shield behind the first bandswitch
wafer
> and a terminal on T2
>
> Another thought occurred to me. Have you tried subbing the
Calibrator
> tube??? A weak tube "could" cause this drop-off in output on the
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> 73, Garey - K4OAH
> Glen Allen, VA
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> tnham63 wrote:
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> >> Garey,
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> >> the 2B CD. Would it be on the R-4C CD or do I need your
> >> B- Line CD?
> >> I have peaked all the trimmer caps....
> >>
> >> Thanks again
> >> WINK
> >> WA8KOQ
> >>

>

1354. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 14:02:30 UTC
From: Garey Barrell
Topic: 1320 Message: 1354

Wink -

According to the schematics that I have, the Calibrator tube is a
12BZ6. I don't "think" that would be that much different, but ...

Garey

tnham63 wrote:
> Garey,
> Yes I have tried swapping the 12BA6 Calibrator tube with
> a few others I have and no change. Let me check these other
> components and see what I find.
> Thanks for the help, will let you know.
>
> 73 -- Wink
>
>> Wink -
>>
>> I don't have a CD for the R-4, and the R-4B is considerably
>>
> different in
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>> bandswitch. The little capacitors that are sticking through holes
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>> the shield between these two wafers are the fractional pF caps
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>> the secondaries of T3 and T4. C46 is a 0.82 pF cap, so would have
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>> experience, but someone poking around in the area can damage them.
>>

> R52
>
>> is a 330 ohm, 1/2 W resistor and is connected between the +150V bus
>>
> and
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>> the bottom of the T3 winding. Again, check for physical damage
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> someone
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> ------------------------------------
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> Yahoo! Groups Links
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>>>> WINK
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>>>>

1355. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 14:33:31 UTC
From: Chuck Matteliano
Topic: 1320 Message: 1355

They are indeed very different. Attached are the data sheets for each 12BA6 and 12BZ6.

Also, Here is a GREAT web link for tube data sheets where I got these.

http://frank.pocnet.net/sheets0.html

Chuck
WA2GJU

--- On Thu, 10/16/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)
To: DrakeRadio@yahoogroups.com
Date: Thursday, October 16, 2008, 10:02 AM

Wink -

According to the schematics that I have, the Calibrator tube is a
12BZ6. I don't "think" that would be that much different, but ...

Garey

tnham63 wrote:
> Garey,
> Yes I have tried swapping the 12BA6 Calibrator tube with
> a few others I have and no change. Let me check these other
> components and see what I find.
> Thanks for the help, will let you know.
>
> 73 -- Wink
>
>> Wink -
>>
>> I don't have a CD for the R-4, and the R-4B is considerably
>>
> different in
>
>> that area. The general area is between sections 3 and 4 of the
>> bandswitch. The little capacitors that are sticking through holes
>>
> in
>
>> the shield between these two wafers are the fractional pF caps
>>
> coupling
>

>> the secondaries of T3 and T4. C46 is a 0.82 pF cap, so would have
>>
> a
>
>> gray and red color coding stripe. I'm suggesting that you inspect
>>
> this
>
>> cap to make sure that it hasn't been damaged physically and/or that
>>
> the
>
>> connections at either end are OK. These caps don't fail, in my
>> experience, but someone poking around in the area can damage them.
>>
> R52
>
>> is a 330 ohm, 1/2 W resistor and is connected between the +150V bus
>>
> and
>
>> the bottom of the T3 winding. Again, check for physical damage
>>
> and
>
>> correct resistance. This resistor is susceptible to damage if
>>
> someone
>
>> uses a metal alignment tool to adjust the trimmer caps and allows
>>
> the
>
>> tool to short the adjustment screw to the chassis, even
>>
> momentarily.
>
>> This is all too easy to do working through those little holes in
>>
> the
>
>> chassis. A short here puts the entire 150 VDC across that little
>> resistor. Not good..... If you don't have a non-metallic
>>
> alignment
>
>> tool, put a piece of tape or heat-shrink tubing around the
>>
> screwdriver
>

>> blade just behind the tip.
>>
>> R5, a 1.5k, 1/2W resistor is also susceptible to the same problem
>>
> and
>
>> should be checked as well. This resistor is connected between a
>> terminal strip mounted on the shield behind the first bandswitch
>>
> wafer
>
>> and a terminal on T2
>>
>> Another thought occurred to me. Have you tried subbing the
>>
> Calibrator
>
>> tube??? A weak tube "could" cause this drop-off in output on the
>>
> higher
>
>> bands. That would be embarrassing! :-) Calibrators have been
>>
> solid
>
>> state for so long .....
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> tnham63 wrote:
>>
>>> Garey -- Any help on this yet? Where is C38 and R52?
>>>
>>> Thanks
>>>
>>>
>>>> Garey,
>>>> The Preselector rack has thread lock on the top of the slugs, and
>>>> they are at little different heights.Not drastic.
>>>> S-meter was adjusted, can't get 20 db over though, but I
>>>>
> calibrated
>
>>>>

>>>>
>>> it
>>>
>>>
>>>> and it is same as another receiver on receive.
>>>> I'm not sure of the location of C38 and R52. I have your C-Line
>>>>
> CD
>
>>>>
>>>>
>>> and
>>>
>>>
>>>> the 2B CD. Would it be on the R-4C CD or do I need your
>>>> B- Line CD?
>>>> I have peaked all the trimmer caps....
>>>>
>>>> Thanks again
>>>> WINK
>>>> WA8KOQ
>>>>
>>>>
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
>
>
>
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tnham63 wrote:
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> Yes I have tried swapping the 12BA6 Calibrator tube with
> a few others I have and no change. Let me check these other
> components and see what I find.
> Thanks for the help, will let you know.
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> 73 -- Wink
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>> Wink -
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>
>> that area. The general area is between sections 3 and 4 of the

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> coupling
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>> cap to make sure that it hasn't been damaged physically and/or that
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>> connections at either end are OK. These caps don't fail, in my
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>> the bottom of the T3 winding. Again, check for physical damage
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>> correct resistance. This resistor is susceptible to damage if
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> someone
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>> uses a metal alignment tool to adjust the trimmer caps and allows
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>> tool to short the adjustment screw to the chassis, even
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> momentarily.
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>> This is all too easy to do working through those little holes in
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> the
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>> chassis. A short here puts the entire 150 VDC across that little

>> resistor. Not good..... If you don't have a non-metallic
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> alignment
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>> tool, put a piece of tape or heat-shrink tubing around the
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> screwdriver
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>> blade just behind the tip.
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>> R5, a 1.5k, 1/2W resistor is also susceptible to the same problem
>>
> and
>
>> should be checked as well. This resistor is connected between a
>> terminal strip mounted on the shield behind the first bandswitch
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> wafer
>
>> and a terminal on T2
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>> Another thought occurred to me. Have you tried subbing the
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> Calibrator
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>> tube??? A weak tube "could" cause this drop-off in output on the
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>> bands. That would be embarrassing! :-) Calibrators have been
>>
> solid
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>> state for so long .....
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>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>>
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>> tnham63 wrote:
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>>> Garey -- Any help on this yet? Where is C38 and R52?
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>>> Thanks
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>>>> Garey,
>>>> The Preselector rack has thread lock on the top of the slugs, and
>>>> they are at little different heights.Not drastic.
>>>> S-meter was adjusted, can't get 20 db over though, but I
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>>>> and it is same as another receiver on receive.
>>>> I'm not sure of the location of C38 and R52. I have your C-Line
>>>>
> CD
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>>>>
>>> and
>>>
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>>>> the 2B CD. Would it be on the R-4C CD or do I need your
>>>> B- Line CD?
>>>> I have peaked all the trimmer caps....
>>>>
>>>> Thanks again
>>>> WINK
>>>> WA8KOQ
>>>>
>>>>

[Non-text portions of this message have been removed]

1356. Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 14:49:29 UTC
From: Garey Barrell
Topic: 1320 Message: 1356

Chuck -

OK.. I'm aware the tubes are quite different, but we are looking at
drastic differences in calibrator output, (if indeed that is the
problem,) and I'm not sure there is enough difference to account.

Certainly worth trying though.!!

73, Garey - K4OAH
Louisville, KY

Chuck Matteliano wrote:
> They are indeed very different. Attached are the data sheets for each 12BA6 and 12BZ6.
>
> Also, Here is a GREAT web link for tube data sheets where I got these.
>
> http://frank.pocnet.net/sheets0.html
>
> Chuck
> WA2GJU
>
> --- On Thu, 10/16/08, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Re: R-4 PROBLEM (UPDATE)
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, October 16, 2008, 10:02 AM
>
>
>
>
>
>
>
> Wink -
>
> According to the schematics that I have, the Calibrator tube is a
> 12BZ6. I don't "think" that would be that much different, but ...
>
> Garey
>

1357. R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 21:07:28 UTC
From: tnham63
Topic: 1320 Message: 1357

Garey -
The C46 and all the fractional pF caps look "factory" but I touched
them up any way.
The R5 checked 1.57, so it's OK.
The R52 checked 520 ohms -- So I put a 330 ohm in to fix that
But -- No difference on 20/15/10..
Now what?
My schematic also shows V12 to be a 12BZ6 but -- the copper
chassis is FACTORY STAMPED 12BA6 and it has a 12BA6 in it !!
What do you think about that since R52 change did nothing?

Thanks
WINK

1358. Was: 6JB6A Substitute, NOW: Twin Matching

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 21:07:47 UTC
From: john baker
Topic: 1278 Message: 1358

LOL! Ah Hah! Hipocrite! =) (kidding)

I understand now what you were saying. Didn't at the time. Not educated enough.

I need to back track myself. (sheepish grin) I just looked at the ad that I got those tubes from and they DID mention that they were the GE numbers. Just that all I noticed was the big print saying they were 6jb6a replacements. Thought I would check before I called the guy up and, sure enough,.... Had I noticed I would have asked on here before I bid on them. Must have been distracted or something (give me a minute and I can make up a good excuse). Guess I'll keep them for the day when the 6jb6's are no more.

Sure appreciate the education from you, Garey and all.

Got a new Question, though.

Would there be any matching problems between a R-4b and a T-4xc?
and...
What were the differences between the T-4xb and T-4xc?

73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike-K5VSE" <mdewey@...> wrote:
>
> John,
>
> I will admit, one of my TR-4C's does have GE tubes in it. Seems to work just
> great. But like I said, I only replace any with Sylvania tubes. The GE's
> were in it when I bought it about a year ago. SRI for the rub, but that's
> just my personal opinion!
>
> 73,
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance

> All email scanned with Norton 2008
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

1359. Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-16 23:07:55 UTC
From: jch39_99
Topic: 1359 Message: 1359

Greetings Drake Operators.

I have a new to me TR7. Seems to work great but have noticed that I can hear two identical signals about 1600 cycles apart (approximately equal to twice the sidetone frequency). The lower in frequency signal is much stronger than the higher signal.

Using the Elecraft XG1 which puts out a "S9" signal at 7.040 I get the following:

S9 + 10db signal at 7039.2 and
S1-2 signal at 7040.8.

This may explain why I occasionally have not gotten a response from a CQer when I returned their CQ I may have been 1600 Hz off frequency. Is this normal?

73/Crit/K4BXN

1360. Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-17 12:03:19 UTC
From: Al Scanandoah
Topic: 1359 Message: 1360

Hi Crit

It sounds like you're hearing undesired energy on the "other" side of the zero beat. This is typical for a receiver in need of alignment.

With the TR-7, it's important that you start with the 40 MHz oscillator and work your way through the procedure from there, as any frequency error trickles downhill, and can mess up your IF passband.

If you have just the stock SSB filter, you may still hear a faint signal, but nothing at the level you're reporting. If you haven't already done so, splurging for a 500 Hz filter makes for a world of difference.

73 - Al, K2ZN

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Greetings Drake Operators.
>
> I have a new to me TR7. Seems to work great but have noticed that I
> can hear two identical signals about 1600 cycles apart
> (approximately equal to twice the sidetone frequency). The lower in
> frequency signal is much stronger than the higher signal.
>
> Using the Elecraft XG1 which puts out a "S9" signal at 7.040 I get the
> following:
>
> S9 + 10db signal at 7039.2 and
> S1-2 signal at 7040.8.
>
> This may explain why I occasionally have not gotten a response from a
> CQer when I returned their CQ I may have been 1600 Hz off frequency.
> Is this normal?
>
> 73/Crit/K4BXN
>

1361. Re: [DrakeRadio] Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-17 13:49:07 UTC
From: Garey Barrell
Topic: 1359 Message: 1361

Crit -

The first thing to check is the Passband settings, the row of pots along the top edge of the little power supply board in the front right corner of the transceiver.

See one procedure at

<http://www.zerobeat.net/drakelist/passband.html>

As noted on this page, be VERY careful to not bump the LAST control on the right of that row, or you WILL need to do a full realignment of the radio!!

73, Garey - K4OAH
Louisville, KY

>
> --- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>> Greetings Drake Operators.
>>
>> I have a new to me TR7. Seems to work great but have noticed that I
>> can hear two identical signals ? about 1600 cycles apart
>> (approximately equal to twice the sidetone frequency). The lower in
>> frequency signal is much stronger than the higher signal.
>>
>> Using the Elecraft XG1 which puts out a "S9" signal at 7.040 I get the
>> following:
>>
>> S9 + 10db signal at 7039.2 and
>> S1-2 signal at 7040.8.
>>
>> This may explain why I occasionally have not gotten a response from a
>> CQer when I returned their CQ ? I may have been 1600 Hz off frequency.
>> Is this normal?
>>
>> 73/Crit/K4BXN
>>

1362. any expert on this reflctor for 2B RX ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-17 18:26:44 UTC
From: elan paim
Topic: 1362 Message: 1362

HI
is there any expert who know well the Drake 2b rx ?
or any UK . i need some info .

vy73
and all the best
Elan g0uut

[Non-text portions of this message have been removed]

1363. Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-17 19:44:47 UTC
From: jch39_99
Topic: 1359 Message: 1363

Tnx to Garey and Al for their input.
I will pop the top on the rig and see what havoc I can do.
I guess, I was hoping I would get "oh yeah, these 1970-80 rigs all
have a spurious sideband down XX db and don't worry about it, that's
w/in specs."
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> The first thing to check is the Passband settings, the row of pots
along
> the top edge of the little power supply board in the front right corner
> of the transceiver.
>
> See one procedure at
>
> <http://www.zerobeat.net/drakelist/passband.html>
>
> As noted on this page, be VERY careful to not bump the LAST control on
> the right of that row, or you WILL need to do a full realignment of the
> radio!!
>
> 73, Garey - K4OAH
> Louisville, KY
>

1364. Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-17 23:30:50 UTC
From: jch39_99
Topic: 1359 Message: 1364

Okay did this Passband settings ... minor adjustment only needed.
No change in the extra sideband signal as before when inputting the
XG1 7.040 signal.
Full alignment might be needed. A bit beyond my limited skill set.
Tnx/73
Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> The first thing to check is the Passband settings, the row of pots
along
> the top edge of the little power supply board in the front right corner
> of the transceiver.
>
> See one procedure at
>
> <http://www.zerobeat.net/drakelist/passband.html>
>
> As noted on this page, be VERY careful to not bump the LAST control on
> the right of that row, or you WILL need to do a full realignment of the
> radio!!
>
> 73, Garey - K4OAH
> Louisville, KY

1365. RE: [DrakeRadio] Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 00:54:19 UTC
From: Jim Chaggaris
Topic: 1359 Message: 1365

If you're looking for a good Drake tech, call Jeff Covelli (WA8SAJ). He'll cure your sick TR7.

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jch39_99
Sent: Friday, October 17, 2008 6:31 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Query on a TR-7 Rcvr

Okay did this Passband settings ... minor adjustment only needed.
No change in the extra sideband signal as before when inputting the XG1 7.040 signal.
Full alignment might be needed. A bit beyond my limited skill set.
Tnx/73
Crit/K4BXN

--- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> The first thing to check is the Passband settings, the row of pots along
> the top edge of the little power supply board in the front right corner
> of the transceiver.
>
> See one procedure at
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> As noted on this page, be VERY careful to not bump the LAST control on
> the right of that row, or you WILL need to do a full realignment of the
> radio!!
>
> 73, Garey - K4OAH
> Louisville, KY

[Non-text portions of this message have been removed]

1366. Re: [DrakeRadio] Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 01:22:23 UTC
From: Garey Barrell
Topic: 1359 Message: 1366

Crit -

OK. If you turn ON the Passband tuning, and set the pointer to the center of its' range, when you tune in the Calibrator or the XG-1, the S-Meter should peak at zero beat. With both Filter buttons "out" and then set the pointer to either the USB or LSB marks, the S-meter should peak roughly between 400 and 2200 Hz beat note on one side and near noise level near zero beat.

If this doesn't work this way, you may have a problem with the -5VDC supply or bad PIN diode(s) on the Filter board. If this is beyond your comfort level, Gary (W8PU), Jeff (WA8SAJ) or Larry (K2LT) are all competent and fair repair people.

73, Garey - K4OAH
Louisville, KY

jch39_99 wrote:
> Okay did this Passband settings ... minor adjustment only needed.
> No change in the extra sideband signal as before when inputting the
> XG1 7.040 signal.
> Full alignment might be needed. A bit beyond my limited skill set.
> Tnx/73
> Crit/K4BXN
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>> Crit -
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>> The first thing to check is the Passband settings, the row of pots
> along
>> the top edge of the little power supply board in the front right corner
>> of the transceiver.
>>
>> See one procedure at
>>
>> <http://www.zerobeat.net/drakelist/passband.html>
>>
>> As noted on this page, be VERY careful to not bump the LAST control on
>> the right of that row, or you WILL need to do a full realignment of the
>> radio!!
>>
>> 73, Garey - K4OAH
>> Louisville, KY
>

1367. Re: Query on a TR-7 Rcvr

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 01:35:21 UTC
From: jch39_99
Topic: 1359 Message: 1367

Okay Garey see my comments below ...

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> OK. If you turn ON the Passband tuning, and set the pointer to the
> center of its' range, when you tune in the Calibrator or the XG-1, the
> S-Meter should peak at zero beat.

Using the XG1 the S-meter peaks at 7.040

> With both Filter buttons "out" and
> then set the pointer to either the USB or LSB marks, the S-meter should
> peak roughly between 400 and 2200 Hz beat note on one side and near
> noise level near zero beat.

Filter buttons are out.
PBT button is in.

Turning the PBT to either LSB or USB mark (the first mark) does
nothing to the peak of the signal on the S meter ... still at 7.040.

If I turn the PBT full clockwise or counter clockwise the peak is then
is arnd 7.0365 or 7.0429. Nothing heard at 7.040

Did I do it correctly and is the TR-7 working correctly?
73/Crit/K4BXN

>
> If this doesn't work this way, you may have a problem with the -5VDC
> supply or bad PIN diode(s) on the Filter board. If this is beyond your
> comfort level, Gary (W8PU), Jeff (WA8SAJ) or Larry (K2LT) are all
> competent and fair repair people.
>
> 73, Garey - K4OAH
> Louisville, KY
>
> jch39_99 wrote:
> > Okay did this Passband settings ... minor adjustment only needed.
> > No change in the extra sideband signal as before when inputting the
> > XG1 7.040 signal.
> > Full alignment might be needed. A bit beyond my limited skill set.
> > Tnx/73
> > Crit/K4BXN
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:

> >> Crit -
> >>
> >> The first thing to check is the Passband settings, the row of pots
> > along
> >> the top edge of the little power supply board in the front right
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> >> of the transceiver.
> >>
> >> See one procedure at
> >>
> >> <http://www.zerobeat.net/drakelist/passband.html>
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> >> As noted on this page, be VERY careful to not bump the LAST
control on
> >> the right of that row, or you WILL need to do a full realignment
of the
> >> radio!!
> >>
> >> 73, Garey - K4OAH
> >> Louisville, KY
> >
>

1368. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 12:19:28 UTC
From: tnham63
Topic: 1320 Message: 1368

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> Garey -
> The C46 and all the fractional pF caps look "factory" but I touched
> them up any way.
> The R5 checked 1.57, so it's OK.
> The R52 checked 520 ohms -- So I put a 330 ohm in to fix that
> But -- No difference on 20/15/10..
> Now what?
> My schematic also shows V12 to be a 12BZ6 but -- the copper
> chassis is FACTORY STAMPED 12BA6 and it has a 12BA6 in it !!
> What do you think about that since R52 change did nothing?
>
> Thanks
> WINK
>

1369. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 12:19:51 UTC
From: tnham63
Topic: 1320 Message: 1369

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> Garey -
> The C46 and all the fractional pF caps look "factory" but I touched
> them up any way.
> The R5 checked 1.57, so it's OK.
> The R52 checked 520 ohms -- So I put a 330 ohm in to fix that
> But -- No difference on 20/15/10..
> Now what?
> My schematic also shows V12 to be a 12BZ6 but -- the copper
> chassis is FACTORY STAMPED 12BA6 and it has a 12BA6 in it !!
> What do you think about that since R52 change did nothing?
>
> Thanks
> WINK
>

1370. Bar knobs 4 series

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 13:53:12 UTC
From: Victor Waddington
Topic: 1204 Message: 1370

Hi Al (KC9YS)
Sorry to use this reflector but my mails to you keep getting returned undelivered. All arrived OK and very happy.
Cheers
Vic

1371. TR4 sideband filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-18 17:31:48 UTC
From: rrkbogie
Topic: 1371 Message: 1371

Has anyone on the list constructed a ladder filter circuit simulation model of the TR4 sideband filters? I have two TR4s, and both have one SSB filter so far out of spec that it is unusable. - No, I can't just swap rigs to switch sidebands - the same filter is defective on both! One of the rigs has the "soup can" filter enclosure, and one has blue Tyco filters. I understand these have 4 and 8 pole filters, respectively. I'm curious whether someone has already worked this out before I try to do it myself.

Bob
K4ERR

1372. RE: [DrakeRadio] Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-19 15:19:04 UTC
From: Jose V. Gavila
Topic: 1111 Message: 1372

Hello John,

Sorry for using the List but it seems direct mail does not arrive...

Please, have you got my payment?. Did you send the material?

Thanks!

JOSE

At 21:33 11/09/2008 +0000, you wrote:

>I have both crystals from a parts chassis. John k4kwm
>
>John Page K4KWM
>Hollow State since 1953
>(ex W8PKU,N8BLB,NA8O)

---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1373. RE: [DrakeRadio] Re: My TR-4C restoration WEB page

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-19 17:51:01 UTC
From: John Page
Topic: 1111 Message: 1373

Yes, money arrived and package has been sent. JohnJohn Page K4KWMHollow State since 1953(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.comFrom: eb5agv@...: Sun, 19 Oct 2008 17:19:04 +0200Subject: RE: [DrakeRadio] Re: My TR-4C restoration WEB page

Hello John,Sorry for using the List but it seems direct mail does not arrive...Please, have you got my payment?. Did you send the material?Thanks!JOSEAt 21:33 11/09/2008 +0000, you wrote:>I have both crystals from a parts chassis. John k4kwm>>John Page K4KWM>Hollow State since 1953>(ex W8PKU,N8BLB,NA8O)----------73 EB5AGV - JOSE V. GAVILAIM99sm La Canyada - Valencia (SPAIN)Vintage Radio and Test Equipmenthttp://jvgavila.comRadioRepair BLOGhttp://radiorepair.blogspot.com/European Boatanchors Listhttp://groups.yahoo.com/group/euro_ba_swapAmateur Repairs Listhttp://groups.yahoo.com/group/amateur-repairs

---
When your life is on the go?take your life with you.
http://clk.atdmt.com/MRT/go/115298558/direct/01/

[Non-text portions of this message have been removed]

1374. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 09:56:51 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1374

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1375. Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 13:08:10 UTC
From: bosonob2000
Topic: 1375 Message: 1375

I have been really getting to know the R4B now and really like it. It is interesting how the R4B is probably the last complete rx when after that you had to buy filters and accessories that were previously standard. Now it seems we've come full circle with DSP IF rigs having all the filters and NB etc.

I was curious as to if there was a trick to knowing what freq you are on CW when tuning to a station. I'm used to rigs that have a built in offset so that at pitch you are reading carrier freq. I know most people use the T4X to spot what freq they send on but when trying get on proper freq to answer a CQ, it seems a little challenging. Can you just offset the dial skirt to account for the pitch? What did they do back in the day?

73's
Stefan
KF4UEO

1376. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 13:18:37 UTC
From: captcurt2000
Topic: 1375 Message: 1376

Hi Stefan:

I still run a R-4a/T4x ..when you swith the tx to spot, you will hear
a warbling feedback--just like zero beating in SSB, you just adjust
till the beat stops. With a little practice, it is very fast and
within a couple of Hz.

FWIW

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> I have been really getting to know the R4B now and really like it. It
> is interesting how the R4B is probably the last complete rx when after
> that you had to buy filters and accessories that were previously
> standard. Now it seems we've come full circle with DSP IF rigs having
> all the filters and NB etc.
>
> I was curious as to if there was a trick to knowing what freq you are
> on CW when tuning to a station. I'm used to rigs that have a built in
> offset so that at pitch you are reading carrier freq. I know most
> people use the T4X to spot what freq they send on but when trying get
> on proper freq to answer a CQ, it seems a little challenging. Can you
> just offset the dial skirt to account for the pitch? What did they do
> back in the day?
>
>
> 73's
> Stefan
> KF4UEO
>

1377. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 19:56:16 UTC
From: bosonob2000
Topic: 1375 Message: 1377

Curt,
If you are scanning for contacts using the R4/T4. Assuming your R4 passband settings are correct [set at the dots] do you zero beat the guy or match his pitch to be on frequency. The only previous experience for me has been with radios that you match pitch to match freq. I apologize for the question but it occurred to me that you could get things messed up especially with a variable passband radio without a BFO offset tec..

I should mention I don't have a T4X yet..

maybe I am overthinking a bit too...

73's
Stefan
KF4UEO

1378. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 21:03:36 UTC
From: w5rkl
Topic: 1375 Message: 1378

Not all CW operators operate at the same offset. The problem with zero beating the CW's offset spot signal is you are zero beating not only at your end but also at the distant end. Therefore the distant end may not even hear you if you zero beat your CW offset spot signal with the distant stations signal. A transmitter's spotting signal is the actual transmit signal except the driver and final amplifier stages are not energized. What ever tone or frequency you hear from your transmitter's CW spot signal is exactly what is being transmitted through the driver and final amplifier out on the air.

Most transceivers have a built CW offset that is created by switching in CW crystals in the carrier generators during transmit. For example, the Heathkit SB-400 and SB-401 SSB and CW transmitters plus the HW and SB 5 band transceivers had a specific CW carrier generator crystal that is used in CW for the CW offset on their CW transmit signals. In CW receiver, however, these transceivers switched to USB CW receive. This is accomplished by a relay that switches plate voltage on the carrier generators, USB carrier generator crystal for CW receive and CW offset carrier generator crystal for CW transmit. Other transceivers such as Yaesu FT-757 series and the FT-857D, for example, have a different method of CW offset in both transmit and receive. Transceivers that have "CW N" or "CW W" uses separate CW offset crystals or frequency generating systems for each CW mode. Drake, I believe, has an automatic CW offset. I use the T4XC and R4C and what works for me is the same pitch method when responding to a CQ or adjusting the receiver to a comfortable transmit spot signal tone when calling CQ. Works every time for me.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> Curt,
> If you are scanning for contacts using the R4/T4. Assuming your R4
> passband settings are correct [set at the dots] do you zero beat the
> guy or match his pitch to be on frequency. The only previous
> experience for me has been with radios that you match pitch to match
> freq. I apologize for the question but it occurred to me that you
> could get things messed up especially with a variable passband radio
> without a BFO offset tec..
>
> I should mention I don't have a T4X yet..
>
> maybe I am overthinking a bit too...

>
> 73's
> Stefan
> KF4UEO
>

1379. Parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-20 23:56:29 UTC
From: Bill and Pat
Topic: 1379 Message: 1379

Hi Group,
I have some nice NP0 caps rated at 1kv and other parts that might be of interests to Drake userer/fixer-uppers. I am not in the parts business but scored some nice parts at a recent hamfest(TenTec) (more than I need) so I am offering the rest at bargain basement prices. If interested, Go to Willydog5.com look under excess equipment. If you see something you want send me an email direct.
Thanks for space
Bill WD5DZG

1380. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-21 13:58:14 UTC
From: captcurt2000
Topic: 1375 Message: 1380

Yes..I do it like Mike does for CW. The warbling was for spotting SSB.

As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
the staions CW tone. That will put the T4 on the same frequency.
Like Mike, I've been doing it that way since I got the radios new in 66.

Monitoring with the rcvr unmuted and the rf gain down will confirm
that the T4 is on the same frequency as the distant station.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> Curt,
> If you are scanning for contacts using the R4/T4. Assuming your R4
> passband settings are correct [set at the dots] do you zero beat the
> guy or match his pitch to be on frequency. The only previous
> experience for me has been with radios that you match pitch to match
> freq. I apologize for the question but it occurred to me that you
> could get things messed up especially with a variable passband radio
> without a BFO offset tec..
>
> I should mention I don't have a T4X yet..
>
> maybe I am overthinking a bit too...
>
> 73's
> Stefan
> KF4UEO
>

1381. Re: [DrakeRadio] Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-22 08:16:32 UTC
From: g4jss@tiscali.co.uk
Topic: 1375 Message: 1381

Hi

Just shows how procedures differ. I tune my 4C to an incoming signal and then adjust the tuning slightly to his zero beat. I then spot the T4 to zero beat on his zero beat and then move the Rx tuning back to where I can hear him.

Sounds a bit awkward but it only takes a second and you are spot on.

Vic
----Original Message----
From: captcurt@...
Date: 21/10/2008 14:58
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: Another R4B question

Yes..I do it like Mike does for CW. The warbling was for spotting SSB.

As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
the staions CW tone. That will put the T4 on the same frequency.
Like Mike, I've been doing it that way since I got the radios new in 66.

Monitoring with the rcvr unmuted and the rf gain down will confirm
that the T4 is on the same frequency as the distant station.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> Curt,
> If you are scanning for contacts using the R4/T4. Assuming your R4
> passband settings are correct [set at the dots] do you zero beat the
> guy or match his pitch to be on frequency. The only previous
> experience for me has been with radios that you match pitch to match
> freq. I apologize for the question but it occurred to me that you
> could get things messed up especially with a variable passband radio
> without a BFO offset tec..
>
> I should mention I don't have a T4X yet..
>
> maybe I am overthinking a bit too...
>
> 73's
> Stefan
> KF4UEO
>

Is the Government's Super Database a good idea? - http://www.tiscali.co.uk/security
---

[Non-text portions of this message have been removed]

1382. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-22 15:32:05 UTC
From: captcurt2000
Topic: 1375 Message: 1382

Hi Vic...yep, there are different ways for different folks alright. I find that the actual zero position is sometimes difficult to hear accurately, especially since the audio response can drop off quickly at the low end, and it gets assemetrical due to the passband offset.

Probably more relavent tho, is, being a long time musician, I can match the tone within a fraction of a Hz.

Just me...thanks for the input.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> Just shows how procedures differ. I tune my 4C to an incoming signal and then adjust the tuning slightly to his zero beat. I then spot the T4 to zero beat on his zero beat and then move the Rx tuning back to where I can hear him.
>
> Sounds a bit awkward but it only takes a second and you are spot on.
>
> Vic
> ----Original Message----
> From: captcurt@...
> Date: 21/10/2008 14:58
> To: <DrakeRadio@yahoogroups.com>
> Subj: [DrakeRadio] Re: Another R4B question
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>
> Yes..I do it like Mike does for CW. The warbling was for spotting SSB.
>
> As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
> the staions CW tone. That will put the T4 on the same frequency.
> Like Mike, I've been doing it that way since I got the radios new in 66.
>

> Monitoring with the rcvr unmuted and the rf gain down will confirm
> that the T4 is on the same frequency as the distant station.
>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@> wrote:
> >
> > Curt,
> > If you are scanning for contacts using the R4/T4. Assuming your R4
> > passband settings are correct [set at the dots] do you zero beat the
> > guy or match his pitch to be on frequency. The only previous
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> ~---~
> Is the Government's Super Database a good idea? -
http://www.tiscali.co.uk/security
> ~---~
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> [Non-text portions of this message have been removed]
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1383. Re: [DrakeRadio] Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-22 16:39:30 UTC
From: Chuck Matteliano
Topic: 1375 Message: 1383

Being an avid QRQ CW operator for the past 30 years, I personally have always found that matching the tone works best because as the two tones get close to eachother (received signal and zero-beat oscillator) the tones create an intereference tone which is the combined waveform and as that approaches "zero hz." you can hear it in your ear pulsating slower and slower and when it's gone, you're right at zero-beat (this is why they call it "zero-beat", because there is zero, beat, from the interference waveform.....

My two cents worth.....
Chuck
WA2GJU

--- On Wed, 10/22/08, captcurt2000 <captcurt@...> wrote:

From: captcurt2000 <captcurt@flash.net>
Subject: [DrakeRadio] Re: Another R4B question
To: DrakeRadio@yahoogroups.com
Date: Wednesday, October 22, 2008, 11:32 AM

Hi Vic...yep, there are different ways for different folks alright. I find that the actual zero position is sometimes difficult to hear accurately, especially since the audio response can drop off quickly at the low end, and it gets assemetrical due to the passband offset.

Probably more relavent tho, is, being a long time musician, I can match the tone within a fraction of a Hz.

Just me...thanks for the input.

Curt

KU8L

--- In DrakeRadio@yahoogro ups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> Just shows how procedures differ. I tune my 4C to an incoming signal and then adjust the tuning slightly to his zero beat. I then spot the T4 to zero beat on his zero beat and then move the Rx tuning back to where I can hear him.
>
> Sounds a bit awkward but it only takes a second and you are spot on.
>
> Vic
> ----Original Message----
> From: captcurt@...

> Date: 21/10/2008 14:58
> To: <DrakeRadio@yahoogro ups.com>
> Subj: [DrakeRadio] Re: Another R4B question
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> Yes..I do it like Mike does for CW. The warbling was for spotting SSB.
>
> As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
> the staions CW tone. That will put the T4 on the same frequency.
> Like Mike, I've been doing it that way since I got the radios new in 66.
>
> Monitoring with the rcvr unmuted and the rf gain down will confirm
> that the T4 is on the same frequency as the distant station.
>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogro ups.com, "bosonob2000" <saschu2@> wrote:
> >
> > Curt,
> > If you are scanning for contacts using the R4/T4. Assuming your R4
> > passband settings are correct [set at the dots] do you zero beat the
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1384. Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-22 19:56:02 UTC
From: captcurt2000
Topic: 1375 Message: 1384

Its how piano tuners do there work..they count beats between strings.

You're absolutely correct about the term zero-BEAT. thats why its called that.

Curt

--- In DrakeRadio@yahoogroups.com, Chuck Matteliano <wa2gju@...> wrote:
>
> Being an avid QRQ CW operator for the past 30 years, I personally have always found that matching the tone works best because as the two tones get close to eachother (received signal and zero-beat oscillator) the tones create an intereference tone which is the combined waveform and as that approaches "zero hz." you can hear it in your ear pulsating slower and slower and when it's gone, you're right at zero-beat (this is why they call it "zero-beat", because there is zero, beat, from the interference waveform.....
>
> My two cents worth.....
> Chuck
> WA2GJU
>
>
>
> --- On Wed, 10/22/08, captcurt2000 <captcurt@...> wrote:
>
> From: captcurt2000 <captcurt@...>
> Subject: [DrakeRadio] Re: Another R4B question
> To: DrakeRadio@yahoogroups.com
> Date: Wednesday, October 22, 2008, 11:32 AM
>
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>
> Hi Vic...yep, there are different ways for different folks alright. I
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>
> Probably more relavent tho, is, being a long time musician, I can
> match the tone within a fraction of a Hz.
>
> Just me...thanks for the input.
>

> Curt
>
> KU8L
>
> --- In DrakeRadio@yahoogro ups.com, "g4jss@" <g4jss@> wrote:
> >
> >
> > Hi
> >
> > Just shows how procedures differ. I tune my 4C to an incoming signal
> and then adjust the tuning slightly to his zero beat. I then spot the
> T4 to zero beat on his zero beat and then move the Rx tuning back to
> where I can hear him.
> >
> > Sounds a bit awkward but it only takes a second and you are spot on.
> >
> > Vic
> > ----Original Message----
> > From: captcurt@
> > Date: 21/10/2008 14:58
> > To: <DrakeRadio@yahoogro ups.com>
> > Subj: [DrakeRadio] Re: Another R4B question
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> >
> > Yes..I do it like Mike does for CW. The warbling was for spotting SSB.
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> > As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
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> > Like Mike, I've been doing it that way since I got the radios new
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> >
> > Monitoring with the rcvr unmuted and the rf gain down will confirm
> > that the T4 is on the same frequency as the distant station.
> >
> > Curt
> > KU8L
> >
> > --- In DrakeRadio@yahoogro ups.com, "bosonob2000" <saschu2@> wrote:
> > >
> > > Curt,
> > > If you are scanning for contacts using the R4/T4. Assuming your R4
> > > passband settings are correct [set at the dots] do you zero beat the
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> > ____________ _________ _________ _________ _________ ______
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1385. Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 02:19:45 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1385

Good day all,
I have a few questions which I hope you can help clarify for me.
While attempting the adjustment on the mixer and rf coils it says to
tune in the calibrator signal @ 3.8 Mhz, mine is at 3.70 Mhz. Seems
to be a bit off, I haven't run into this problem yet.
Will doing an alignment of the Crystal Calibrator more than likely
take care of this problem? Is This so out of wack that I should be
checking elsewhere first?
I would appreciate your time in possibly explaining of this circuit
to me.
Thank you,
Tim Ki6nqt

1386. RE: [DrakeRadio] Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 02:33:19 UTC
From: John Page
Topic: 1385 Message: 1386

If you tune to 3.8 you will hear it there also. John Page K4KWMHollow State since 1953(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.comFrom: stotenburg@...: Thu, 23 Oct 2008 02:19:45 +0000Subject: [DrakeRadio] Calibrator signal on TR-4

Good day all,I have a few questions which I hope you can help clarify for me.While attempting the adjustment on the mixer and rf coils it says totune in the calibrator signal @ 3.8 Mhz, mine is at 3.70 Mhz. Seemsto be a bit off, I haven't run into this problem yet.Will doing an alignment of the Crystal Calibrator more than likelytake care of this problem? Is This so out of wack that I should bechecking elsewhere first?I would appreciate your time in possibly explaining of this circuitto me.Thank you,Tim Ki6nqt

_____
You live life beyond your PC. So now Windows goes beyond your PC.
http://clk.atdmt.com/MRT/go/115298556/direct/01/

[Non-text portions of this message have been removed]

1387. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 02:46:40 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1387

That's just it John I don't hear it on 3.8 but on 3.7....
I haven't dealt with calibrator circuit yet. Would going on with
the alignment as previously posted hurt or should I do something about
the signal being off freq?
Thanx and 73
Tim

1388. Re: [DrakeRadio] Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 03:57:34 UTC
From: K5VSE
Topic: 1385 Message: 1388

You are actually hearing the signal on 3.8. Hold the dial skirt when you have the signal calibrator tuned in, and turn the dial until the number matches 3.8. Real simple, and the instructions for doing so are in the manual.

Hope this answers all the questions I've seen posted on this subject. Quite simple...

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2008
"In God We Trust"

[Non-text portions of this message have been removed]

1389. Re: [DrakeRadio] Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 12:45:15 UTC
From: rrkrr
Topic: 1385 Message: 1389

The calibrator oscillator is a 100kHz unit designed for high harmonic content. You should hear it at every 100kHz interval throughout the HF range. There is a calibration adjustment for this oscillator in the form of a variable ceramic capacitor on top of the chassis. If the oscillator frequency is way off, the interval between harmonics will be greater or lesser than 100kHz as well. You can check it by looping one end of a wire around the cal oscillator tube and placing the other end near a low frequency broadcast radio to measure the frequency of the harmonics from 500kHz to 1MHz, Then zero in more closely by zero beating the cal oscillator harmonic against WWV at 10 or 15 MHz.

Bob
K4ERR

Tim Stotenburg wrote:
>
> Good day all,
> I have a few questions which I hope you can help clarify for me.
> While attempting the adjustment on the mixer and rf coils it says to
> tune in the calibrator signal @ 3.8 Mhz, mine is at 3.70 Mhz. Seems
> to be a bit off, I haven't run into this problem yet.
> Will doing an alignment of the Crystal Calibrator more than likely
> take care of this problem? Is This so out of wack that I should be
> checking elsewhere first?
> I would appreciate your time in possibly explaining of this circuit
> to me.
> Thank you,
> Tim Ki6nqt
>
>

1390. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 14:48:00 UTC
From: tjb813
Topic: 1385 Message: 1390

Whoa. I would first verify the VFO frquency before I would go moving the dial. At 3.8 MHz the vfo output should be 5.2 Mhz. Verify this before moving ANYTHING. Else you will through off every band.

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> You are actually hearing the signal on 3.8. Hold the dial skirt when you
> have the signal calibrator tuned in, and turn the dial until the number
> matches 3.8. Real simple, and the instructions for doing so are in the
> manual.
>
> Hope this answers all the questions I've seen posted on this subject. Quite
> simple...
>
> 73,
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2008
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

1391. Re: [DrakeRadio] Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 15:04:49 UTC
From: g4jss@tiscali.co.uk
Topic: 1385 Message: 1391

Hi

Apart from 3.8 how does the calib match up on the other bands? If they are all out by the same degree then probably a dial shift may be your answer. If it is only out on 3.8 then we have a different ball game.

Vic

----Original Message----
From: tjb813@...
Date: 23/10/2008 15:48
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: Calibrator signal on TR-4

Whoa. I would first verify the VFO frquency before I would go moving
the dial. At 3.8 MHz the vfo output should be 5.2 Mhz. Verify this
before moving ANYTHING. Else you will through off every band.

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> You are actually hearing the signal on 3.8. Hold the dial skirt
when you
> have the signal calibrator tuned in, and turn the dial until the
number
> matches 3.8. Real simple, and the instructions for doing so are in
the
> manual.
>
> Hope this answers all the questions I've seen posted on this
subject. Quite
> simple...
>
> 73,
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2008
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]

>

Celebrities caught in the act - http://www.tiscali.co.uk/celebrity
---

[Non-text portions of this message have been removed]

1392. Re: [DrakeRadio] Re: Another R4B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 15:14:35 UTC
From: g4jss@tiscali.co.uk
Topic: 1375 Message: 1392

Hi

Well as I said we all have our own ways of doing it. I have tried matching tone (pitch) but being a lousy singer I wouldn't detect the difference to within a mile!!

The bane of my life is the TR7 and its offset. I can never get it right. I am always under or over and rely heavily on RIT.

I once had a 902DM which had an adjustable offset which ranged between 400 - 800 c/s (h/z) and I found that 400 was about dead right.

Cheers

Vic
----Original Message----
From: wa2gju@...
Date: 22/10/2008 17:39
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: Another R4B question

Being an avid QRQ CW operator for the past 30 years, I personally have always found that matching the tone works best because as the two tones get close to eachother (received signal and zero-beat oscillator) the tones create an intereference tone which is the combined waveform and as that approaches "zero hz." you can hear it in your ear pulsating slower and slower and when it's gone, you're right at zero-beat (this is why they call it "zero-beat", because there is zero, beat, from the interference waveform.....

My two cents worth.....
Chuck
WA2GJU

--- On Wed, 10/22/08, captcurt2000 <captcurt@...> wrote:

From: captcurt2000 <captcurt@...>
Subject: [DrakeRadio] Re: Another R4B question
To: DrakeRadio@yahoogroups.com
Date: Wednesday, October 22, 2008, 11:32 AM

Hi Vic...yep, there are different ways for different folks alright. I
find that the actual zero position is sometimes difficult to hear
accurately, especially since the audio response can drop off quickly
at the low end, and it gets assemetrical due to the passband offset.

Probably more relavent tho, is, being a long time musician, I can
match the tone within a fraction of a Hz.

Just me...thanks for the input.

Curt

KU8L

--- In DrakeRadio@yahoogro ups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> Just shows how procedures differ. I tune my 4C to an incoming signal
and then adjust the tuning slightly to his zero beat. I then spot the
T4 to zero beat on his zero beat and then move the Rx tuning back to
where I can hear him.
>
> Sounds a bit awkward but it only takes a second and you are spot on.
>
> Vic
> ----Original Message----
> From: captcurt@...
> Date: 21/10/2008 14:58
> To: <DrakeRadio@yahoogro ups.com>
> Subj: [DrakeRadio] Re: Another R4B question
>
>
>
>
>
>
>
>
>
> Yes..I do it like Mike does for CW. The warbling was for spotting SSB.
>
> As long as the T4 USB LSB is set for LSB (CW Position) in spot I match
> the staions CW tone. That will put the T4 on the same frequency.
> Like Mike, I've been doing it that way since I got the radios new in 66.
>
> Monitoring with the rcvr unmuted and the rf gain down will confirm
> that the T4 is on the same frequency as the distant station.
>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogro ups.com, "bosonob2000" <saschu2@> wrote:
> >
> > Curt,
> > If you are scanning for contacts using the R4/T4. Assuming your R4
> > passband settings are correct [set at the dots] do you zero beat the
> > guy or match his pitch to be on frequency. The only previous
> > experience for me has been with radios that you match pitch to match
> > freq. I apologize for the question but it occurred to me that you
> > could get things messed up especially with a variable passband radio
> > without a BFO offset tec..

> >
> > I should mention I don't have a T4X yet..
> >
> > maybe I am overthinking a bit too...
> >
> > 73's
> > Stefan
> > KF4UEO
> >
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>
> ------------ --------- --------- --------- --------- ------
> Is the Government's Super Database a good idea? -
http://www.tiscali. co.uk/security
> ------------ --------- --------- --------- ---------
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

Celebrities caught in the act - http://www.tiscali.co.uk/celebrity
----

[Non-text portions of this message have been removed]

1393. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-23 20:23:04 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1393

Good day,
Thank you all for your input.
The cal is off about the same for all bands. I will check vfo output and will check for dial accuracy(should have done this first) with my other radio after work tonight and will report what I have found.
Thanx again,
Tim Ki6NQT

1394. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 02:01:09 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1394

Well sorry all, seems the dial "is" off by 40 khz. Checked it with my Swan. And yes my Swan is on que :)
This is my second TR-4 but this one has the noise blanker which didn't work till after replacing the filter caps and man what a difference the blanker makes!!!
So thanks to each and every one of you for answering my call for help. You have a great site here and maybe I can save some doe on my heating bill with these great rigs.
Cheers,
Tim Ki6NQT
Sacramento, CA

1395. RE: [DrakeRadio] Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 02:16:25 UTC
From: John Page
Topic: 1385 Message: 1395

Glad you found the problem with the dial. I also had to replace the caps in the noise blanker on my TR-4C. keep 'em flyin'John Page K4KWMHollow State since 1953(ex W8PKU,N8BLB,NA8O)

To: DrakeRadio@yahoogroups.comFrom: stotenburg@...: Fri, 24 Oct 2008 02:01:09 +0000Subject: [DrakeRadio] Re: Calibrator signal on TR-4

Well sorry all, seems the dial "is" off by 40 khz. Checked it withmy Swan. And yes my Swan is on que :)This is my second TR-4 but this one has the noise blanker whichdidn't work till after replacing the filter caps and man what adifference the blanker makes!!!So thanks to each and every one of you for answering my call forhelp. You have a great site here and maybe I can save some doe on myheating bill with these great rigs.Cheers,Tim Ki6NQTSacramento, CA

_____
When your life is on the go?take your life with you.
http://clk.atdmt.com/MRT/go/115298558/direct/01/

[Non-text portions of this message have been removed]

1396. Re: [DrakeRadio] Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 05:35:24 UTC
From: K5VSE
Topic: 1385 Message: 1396

I rest my case!

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

1397. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 18:22:39 UTC
From: Victor Waddington
Topic: 606 Message: 1397

Hello again
Had this problem before and thought I had fixed it but that does not seem to be the case.
To clarify matters I am talking about CW transmissions.
In the tune position I get full power with the gain about ten minutes to.
Move to X-CW and the transmitter won't key until I have moved the gain control to max and then I get full power but nothing less. Reduce the gain and it won't key.
The VOX cct. seems to be working OK as I can hear the relay latch in but it won't key until I increase the gain to max.
I do appreciate the in the X-CW position the gain has to be advanced beyond that used in the tune position but surely not as far as max.
I don't think it's a tube problem as I get full power on Tune it just won't key until I run on max gain.

Vic

1398. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 18:55:13 UTC
From: Garey Barrell
Topic: 606 Message: 1398

Vic -

First guess would be an open GAIN control pot. This is a two section pot, one section controlling mic gain, which is the "active" control in SSB or TUNE modes. The other section is the CW control and applies a DC current to the diodes in the Balanced Modulator. From your description, it sounds as though this section has an open element, causing it to apply NO current until it reaches the end stop and then applying full current or max CW. This is the most likely possibility if the CW goes from zero to max at max gain.

The VOX is operated by the TUNE AF oscillator which also generates the sidetone. You should get the sidetone when you close the key, just no RF output.

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Hello again
> Had this problem before and thought I had fixed it but that does not
> seem to be the case.
> To clarify matters I am talking about CW transmissions.
> In the tune position I get full power with the gain about ten minutes
> to.
> Move to X-CW and the transmitter won't key until I have moved the gain
> control to max and then I get full power but nothing less. Reduce the
> gain and it won't key.
> The VOX cct. seems to be working OK as I can hear the relay latch in
> but it won't key until I increase the gain to max.
> I do appreciate the in the X-CW position the gain has to be advanced
> beyond that used in the tune position but surely not as far as max.
> I don't think it's a tube problem as I get full power on Tune it just
> won't key until I run on max gain.
>
> Vic
>
>

1399. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 20:14:15 UTC
From: Victor Waddington
Topic: 606 Message: 1399

Hello again
Had this problem before and thought I had fixed it but that does not seem to be the case.
To clarify matters I am talking about CW transmissions.
In the tune position I get full power with the gain about ten minutes to.
Move to X-CW and the transmitter won't key until I have moved the gain control to max and then I get full power but nothing less. Reduce the gain and it won't key.
The VOX cct. seems to be working OK as I can hear the relay latch in but it won't key until I increase the gain to max.
I do appreciate the in the X-CW position the gain has to be advanced beyond that used in the tune position but surely not as far as max.
I don't think it's a tube problem as I get full power on Tune it just won't key until I run on max gain.

Vic

1400. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 20:16:05 UTC
From: cheops210
Topic: 606 Message: 1400

Victor, if Garey is right, and it is a bad pot and you need a dual pot, let me know as I seem to have a few extra on hand
Bill, WD5DZG
www.willydog5.com
----- Original Message -----
From: Victor Waddington
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 24, 2008 1:22 PM
Subject: [DrakeRadio] T-4XC

Hello again
Had this problem before and thought I had fixed it but that does not seem to be the case.
To clarify matters I am talking about CW transmissions.
In the tune position I get full power with the gain about ten minutes to.
Move to X-CW and the transmitter won't key until I have moved the gain control to max and then I get full power but nothing less. Reduce the gain and it won't key.
The VOX cct. seems to be working OK as I can hear the relay latch in but it won't key until I increase the gain to max.
I do appreciate the in the X-CW position the gain has to be advanced beyond that used in the tune position but surely not as far as max.
I don't think it's a tube problem as I get full power on Tune it just won't key until I run on max gain.

Vic

[Non-text portions of this message have been removed]

1401. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-24 20:40:30 UTC
From: w5rkl
Topic: 606 Message: 1401

Have you adjusted the "VOX" gain on the rear of the T4XC? If the VOX gain is not set properly, keying CW break-in will not work properly.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "cheops210" <cheops210@...> wrote:
>
> Victor, if Garey is right, and it is a bad pot and you need a dual pot, let me know as I seem to have a few extra on hand
> Bill, WD5DZG
> www.willydog5.com
> ----- Original Message -----
> From: Victor Waddington
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, October 24, 2008 1:22 PM
> Subject: [DrakeRadio] T-4XC
>
>
> Hello again
> Had this problem before and thought I had fixed it but that does not
> seem to be the case.
> To clarify matters I am talking about CW transmissions.
> In the tune position I get full power with the gain about ten minutes
> to.
> Move to X-CW and the transmitter won't key until I have moved the gain
> control to max and then I get full power but nothing less. Reduce the
> gain and it won't key.
> The VOX cct. seems to be working OK as I can hear the relay latch in
> but it won't key until I increase the gain to max.
> I do appreciate the in the X-CW position the gain has to be advanced
> beyond that used in the tune position but surely not as far as max.
> I don't think it's a tube problem as I get full power on Tune it just
> won't key until I run on max gain.
>
> Vic
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

1402. Query on the TR-7 and the Filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-25 00:29:02 UTC
From: jch39_99
Topic: 1402 Message: 1402

Have 3 filters in my TR-7.
Stock SSB plus a 1.8 and 250 filters.

Thus A and B out = Stock SSB filter.
A in = 1.8
A out and B in = 250
A and B in = no audio (as it should be)

Here is the question ...
Can I move the 250 filter over thus
A in = 1.8
A and B in = 250

Less button pushing.

73/Crit/K4BXN

1403. Re: Query on the TR-7 and the Filters --- Never Mind they are solder in place !

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-25 00:41:24 UTC
From: jch39_99
Topic: 1402 Message: 1403

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Have 3 filters in my TR-7.
> Stock SSB plus a 1.8 and 250 filters.
>
> Thus A and B out = Stock SSB filter.
> A in = 1.8
> A out and B in = 250
> A and B in = no audio (as it should be)
>
> Here is the question ...
> Can I move the 250 filter over thus
> A in = 1.8
> A and B in = 250
>
> Less button pushing.
>
> 73/Crit/K4BXN
>

1404. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-25 01:23:26 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1404

+1 for analoge dials :)

--- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@...> wrote:
>
> I rest my case!
>
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
> "In God We Trust"
>
> [Non-text portions of this message have been removed]
>

1405. Re: R-4 PROBLEM (UPDATE)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-25 13:38:17 UTC
From: tnham63
Topic: 1320 Message: 1405

--- Garey , Any Ideas on this problem . ????

Garey -
> The C46 and all the fractional pF caps look "factory" but I touched
> them up any way.
> The R5 checked 1.57, so it's OK.
> The R52 checked 520 ohms -- So I put a 330 ohm in to fix that
> But -- No difference on 20/15/10..
> Now what?
> My schematic also shows V12 to be a 12BZ6 but -- the copper
> chassis is FACTORY STAMPED 12BA6 and it has a 12BA6 in it !!
> What do you think about that since R52 change did nothing?
>
> Thanks
> WINK
>

1406. Re: [DrakeRadio] Re: Query on the TR-7 and the Filters --- Never Mind they are solder in place !

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-25 13:45:34 UTC
From: Al Scanandoah
Topic: 1402 Message: 1406

Crit

The filter slots aren't at all "bandwidth exclusive"; you can put a
filter wherever it works best for you.

73 - Al, K2ZN

jch39_99 wrote:
> --- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>> Have 3 filters in my TR-7.
>> Stock SSB plus a 1.8 and 250 filters.
>>
>> Thus A and B out = Stock SSB filter.
>> A in = 1.8
>> A out and B in = 250
>> A and B in = no audio (as it should be)
>>
>> Here is the question ...
>> Can I move the 250 filter over thus
>> A in = 1.8
>> A and B in = 250
>>
>> Less button pushing.
>>
>> 73/Crit/K4BXN

1407. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 14:45:05 UTC
From: w5rkl
Topic: 1385 Message: 1407

Another receiver or transceiver's calibrator can be used to determine whether the TR4's calibrator is off frequency or the TR4's dial is off frequency. A simple connection between the TR4's antenna and the other gear's antenna, DO NOT KEY THE TR4 OR THE OTHER RIG!! Turn the other rigs calibrator on and tune the TR4's dial to a 100Khz interval. Do you hear the calibrator signal from the other rig? If so then the TR4's calibrator is off frequency. If not, the TR4's dial is off frequency. Using this simple method does not require placing the band switch on any specific band. The calibrators are designed to produce high harmonic contents allowing the calibrators to be used on any band.

If the TR4's calibrator appears to be off frequency, adjust the calibrator's variable capacitor to correct the off frequency calibrator signal.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@...> wrote:
>
> Good day,
> Thank you all for your input.
> The cal is off about the same for all bands. I will check vfo output
> and will check for dial accuracy(should have done this first) with my
> other radio after work tonight and will report what I have found.
> Thanx again,
> Tim Ki6NQT
>

1408. Re: [DrakeRadio] Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 15:18:13 UTC
From: Garey Barrell
Topic: 1385 Message: 1408

It's highly unlikely that the calibrator is far enough off frequency to matter, unless the crystal has been changed. The trimmer cap will only pull the frequency a few kHz. Your test method works fine, BUT some transceivers manage to kick into transmit for a very brief time at turn on. So best to turn both units on and unplug both microphones before connecting them together!!

73, Garey - K4OAH
St Charles, IL

w5rkl wrote:
> Another receiver or transceiver's calibrator can be used to determine
> whether the TR4's calibrator is off frequency or the TR4's dial is off
> frequency. A simple connection between the TR4's antenna and the other
> gear's antenna, DO NOT KEY THE TR4 OR THE OTHER RIG!! Turn the other
> rigs calibrator on and tune the TR4's dial to a 100Khz interval. Do
> you hear the calibrator signal from the other rig? If so then the
> TR4's calibrator is off frequency. If not, the TR4's dial is off
> frequency. Using this simple method does not require placing the band
> switch on any specific band. The calibrators are designed to produce
> high harmonic contents allowing the calibrators to be used on any band.
>
> If the TR4's calibrator appears to be off frequency, adjust the
> calibrator's variable capacitor to correct the off frequency
> calibrator signal.
>
> 73
> Mike
> W5RKL
>
>
>
> --- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@...>
> wrote:
>
>> Good day,
>> Thank you all for your input.
>> The cal is off about the same for all bands. I will check vfo output
>> and will check for dial accuracy(should have done this first) with my
>> other radio after work tonight and will report what I have found.
>> Thanx again,
>> Tim Ki6NQT
>>

1409. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 16:24:03 UTC
From: w5rkl
Topic: 1385 Message: 1409

Good point Garey and I agree. That's why I stated not to key the TR4 etc when connecting them together. I assumed both piece of gear were already powered up and in receive.

I've found this method quite useful yet, again, I agree, the calibrator adjustment is limited in its adjustable range. I use my main R4C's calibrator quite often to align dials on other non-Drake gear. I recently used this method with my spare R4C because the spare R4C's calibrator is not working, bad crystal.

More than likely the TR4's dial is out of alignment, an easy fix.

Have a good day.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> It's highly unlikely that the calibrator is far enough off frequency to
> matter, unless the crystal has been changed. The trimmer cap will only
> pull the frequency a few kHz. Your test method works fine, BUT some
> transceivers manage to kick into transmit for a very brief time at turn
> on. So best to turn both units on and unplug both microphones before
> connecting them together!!
>
> 73, Garey - K4OAH
> St Charles, IL
>
>
> w5rkl wrote:
> > Another receiver or transceiver's calibrator can be used to determine
> > whether the TR4's calibrator is off frequency or the TR4's dial is off
> > frequency. A simple connection between the TR4's antenna and the other
> > gear's antenna, DO NOT KEY THE TR4 OR THE OTHER RIG!! Turn the other
> > rigs calibrator on and tune the TR4's dial to a 100Khz interval. Do
> > you hear the calibrator signal from the other rig? If so then the
> > TR4's calibrator is off frequency. If not, the TR4's dial is off
> > frequency. Using this simple method does not require placing the band
> > switch on any specific band. The calibrators are designed to produce
> > high harmonic contents allowing the calibrators to be used on any
band.
> >
> > If the TR4's calibrator appears to be off frequency, adjust the
> > calibrator's variable capacitor to correct the off frequency

> > calibrator signal.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@>
> > wrote:
> >
> >> Good day,
> >> Thank you all for your input.
> >> The cal is off about the same for all bands. I will check vfo
output
> >> and will check for dial accuracy(should have done this first) with my
> >> other radio after work tonight and will report what I have found.
> >> Thanx again,
> >> Tim Ki6NQT
> >>
>

1410. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 17:08:55 UTC
From: Victor Waddington
Topic: 606 Message: 1410

Garey/Mike
Re previously reported fault with Tx gain control only working at max on CW. This somehow seems to be heat related. I am a fairly early riser and my normal practice is to fire up the gear first thing and it may be a couple of hours before I actually use it - plenty of time for it to settle down and stabilize.But yesterday I tried it straight away and the gain worked normally but an hour later same problem with gain.
Another funny thing is that the gain control should be pulled out for VOX but when I do that the relay won't drop out (tried every VOX setting going). There is no RF out but permanent sidetone. But with the gain control in the VOX works perfectly.
Bit of a mares nest isn't it!!
Whilst I'm on the subject of Drake's, any ideas where I can get a 500hz filter for the TR7?

Cheers

Vic

1411. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 17:48:16 UTC
From: Garey Barrell
Topic: 606 Message: 1411

Vic -

I'm on the road, and don't have much reference material. Have you checked C107? Bridging it with a good electrolytic might reveal a clue.

In CW, the MIC amp is converted to an audio oscillator, and the Sidetone is keyed by biasing CR15 on or off with keying. If CR15 is not being biased on when the key is up, the Sidetone would be continuous. Another path is via the B+ for the MIC AMP/SIDETONE V9a and MIC AMP V9b if C107 ESR is high, allowing the audio tone to be coupled AROUND the CR15 switch. In either case, this tone is what keys and holds the VOX closed in CW. Pushing in the GAIN control grounds the VOX circuit input, forcing the VOX OFF, even if the Sidetone is present.

Long-term problems are also sometimes the result of bad ground connections. Check mounting hardware for sockets and PC boards to ensure they are making good contact. Loosen sheet metal screws a quarter turn and then retighten securely.

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Garey/Mike
> Re previously reported fault with Tx gain control only working at max
> on CW. This somehow seems to be heat related. I am a fairly early riser
> and my normal practice is to fire up the gear first thing and it may be
> a couple of hours before I actually use it - plenty of time for it to
> settle down and stabilize.But yesterday I tried it straight away and
> the gain worked normally but an hour later same problem with gain.
> Another funny thing is that the gain control should be pulled out for
> VOX but when I do that the relay won't drop out (tried every VOX
> setting going). There is no RF out but permanent sidetone. But with
> the gain control in the VOX works perfectly.
> Bit of a mares nest isn't it!!
> Whilst I'm on the subject of Drake's, any ideas where I can get a 500hz
> filter for the TR7?
>
> Cheers
>
> Vic
>

1412. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-27 19:17:11 UTC
From: Victor Waddington
Topic: 606 Message: 1412

Garey
Many thanks for taking the time to reply with advice - even though you are on the road.
Just checked with the cct. dia. and understand what you mean. I'll give that a go (C107 and CR15) when I locate them! Have got your 4 series CD so that should help. I suspect they will be on the same board - hopefully.

73

Vic

1413. Re: Calibrator signal on TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-28 01:31:03 UTC
From: Tim Stotenburg
Topic: 1385 Message: 1413

Seems my last post didn't post up so will try again:
Good day everyone,

Thanks for all the reply's. Seems that I am stuck on digital display mode and didn't realize that the analogue dial could be off, checked it with my swan and it was off(yes the Swanie is on que).

Hope I am not over analizing this new radio but I think there is something else wrong. While adjusting the filter matching transformers I had to really crank a lot of turns in to adjust according to the manual.

Now, I don't think this tr-4 is as sensitive as my other one.

A little history, I about this radio off of ebay(yea I know) for a good price because it has the blanker. At first the blanker didn't work and the radio had a hum so replace the filter caps in the radio and now the blanker works splendid!

I have been solid state and this tube technology is a real learning experiance but am learning(it is like relearning).

Can you give me some hints? How about some books that would benifit me on these fine radios as far as repair and theroy.
I can't wait till winter so I can start saving on my heating bills here :)
Thanx again for all the replys and such a great site,
Sincerely ,
Tim Stotenburg
Ki6NQT

--- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <stotenburg@...> wrote:
>
> +1 for analoge dials :)
>
> --- In DrakeRadio@yahoogroups.com, "K5VSE" <mdewey@> wrote:
> >
> > I rest my case!
> >
> > Mike-K5VSE
> >
> > Formerly WB6VSE, Senior Tech. Amateur Division
> > SBE/Linear Systems, Watsonville, CA
> > WEB Site: http://members.tripod.com/~sjsharks/index.html
> > Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> > Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier

> > APA 220, USS Okanogan, LSD31, USS Point Defiance
> > All email scanned with Norton 2009
> > "In God We Trust"
> >
> > [Non-text portions of this message have been removed]
> >
>

1414. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-28 17:00:15 UTC
From: Victor Waddington
Topic: 855 Message: 1414

Hello all
Been onto Inrad for a narrow CW filter for TR7 - which they can and will supply.
Now, an admission. I have never opened my TR7 and haven't a clue what's inside. So regarding the filter, is it a straight plug in job or do you have to remove boards, solder it in and remove or add jumpers etc.?
Regards

Vic - G4JSS

1415. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-28 17:29:12 UTC
From: jch39_99
Topic: 855 Message: 1415

Greetings.
Yep ... remove the case (top). Remove the filter board. (Can make a
board puller using a clothes hanger)
Solder in the filter and replace board.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "Victor Waddington" <g4jss@...> wrote:
>
> Hello all
> Been onto Inrad for a narrow CW filter for TR7 - which they can and
> will supply.
> Now, an admission. I have never opened my TR7 and haven't a clue what's
> inside. So regarding the filter, is it a straight plug in job or do you
> have to remove boards, solder it in and remove or add jumpers etc.?
> Regards
>
> Vic - G4JSS
>

1416. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-28 17:42:25 UTC
From: Garey Barrell
Topic: 855 Message: 1416

Vic -

The filters solder in, two pins per filter. They mount on a card that pulls out of the main chassis.

You just remove the top cover of the transceiver, pull out the card, install the filter, and replace. There are two coax cables that plug into the cards that are a little touchy to replace in that there is no male connector, just the stripped end of the coax. If you are not careful, it's possible for the coax center conductor to "miss" the receptacle and fold under rather than slide into place. Really much easier than it sounds, as long as you are careful. You might want to consider which of the three accessory locations to install the filter into because of the activation methods. The first of the accessory location is accessed by pressing the "A" filter button. The second location is accessed by "releasing" the "A" button and then pressing the "B" button. The third location is reached by pressing BOTH the "A" and "B" buttons together. If the only filter you have is the 500 Hz, and you install it in position "A", then it is selected by pressing the "A" button.

You can see a photo of the board at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-05.htm>

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Hello all
> Been onto Inrad for a narrow CW filter for TR7 - which they can and
> will supply.
> Now, an admission. I have never opened my TR7 and haven't a clue what's
> inside. So regarding the filter, is it a straight plug in job or do you
> have to remove boards, solder it in and remove or add jumpers etc.?
> Regards
>
> Vic - G4JSS
>
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> Yahoo! Groups Links
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>
>

1417. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-28 17:46:44 UTC
From: Garey Barrell
Topic: 855 Message: 1417

Vic -

I have this at home, but didn't realize it was on Ron's site...

<http://www.wb4hfn.com/DRAKE/DrakeArticles/FilterIns-01.htm>

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Hello all
> Been onto Inrad for a narrow CW filter for TR7 - which they can and
> will supply.
> Now, an admission. I have never opened my TR7 and haven't a clue what's
> inside. So regarding the filter, is it a straight plug in job or do you
> have to remove boards, solder it in and remove or add jumpers etc.?
> Regards
>
> Vic - G4JSS
>
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>
> Yahoo! Groups Links
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>

1418. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-29 22:42:08 UTC
From: jch39_99
Topic: 855 Message: 1418

Actually just put in a 300hz filter in my TR7. There are 3 pins and I
was able to get the filter board out and solder in the new filter w/o
having to unplug the coax cables.
Just my 2 cents worth.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Vic -
>
> The filters solder in, two pins per filter. They mount on a card that
> pulls out of the main chassis.
>
> You just remove the top cover of the transceiver, pull out the card,
> install the filter, and replace. There are two coax cables that plug
> into the cards that are a little touchy to replace in that there is no
> male connector, just the stripped end of the coax. If you are not
> careful, it's possible for the coax center conductor to "miss" the
> receptacle and fold under rather than slide into place. Really much
> easier than it sounds, as long as you are careful. You might want to
> consider which of the three accessory locations to install the filter
> into because of the activation methods. The first of the accessory
> location is accessed by pressing the "A" filter button. The second
> location is accessed by "releasing" the "A" button and then pressing
the
> "B" button. The third location is reached by pressing BOTH the "A" and
> "B" buttons together. If the only filter you have is the 500 Hz, and
> you install it in position "A", then it is selected by pressing the "A"
> button.
>
> You can see a photo of the board at
>
>
<http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-05.htm>
>
> 73, Garey - K4OAH
> St Charles, IL
>
>
> Victor Waddington wrote:
> > Hello all
> > Been onto Inrad for a narrow CW filter for TR7 - which they can and
> > will supply.
> > Now, an admission. I have never opened my TR7 and haven't a clue
what's

> > inside. So regarding the filter, is it a straight plug in job or
do you
> > have to remove boards, solder it in and remove or add jumpers etc.?
> > Regards
> >
> > Vic - G4JSS
> >
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> > Yahoo! Groups Links
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1419. (no subject)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-29 22:44:02 UTC
From: mark helinski
Topic: 1419 Message: 1419

have for sale a ps 7 power supply,serial 559 still has connctions to connect to tr7,has manual and fan opion.askin 100.00 plus shipping or maybe we can deal email me

[Non-text portions of this message have been removed]

1420. (no subject)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-29 22:45:04 UTC
From: mark helinski
Topic: 1420 Message: 1420

have service manual askin 25.00 plus shipping its for tr 7

[Non-text portions of this message have been removed]

1421. Re: [DrakeRadio] (unknown)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-29 23:28:17 UTC
From: Garey Barrell
Topic: 1420 Message: 1421

Mark -

If this is a version 2, I'll take it.

Garey - K4OAH

mark helinski wrote:
> have service manual askin 25.00 plus shipping its for tr 7
>
>
>
>

1422. Re: [DrakeRadio] (unknown)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-30 09:06:50 UTC
From: g4jss@tiscali.co.uk
Topic: 1420 Message: 1422

Hi Mark

If you still have the PS7 and will ship to the UK I will buy it.

73

Vic
----Original Message----
From: marksbuffalobills@...
Date: 29/10/2008 22:44
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] (unknown)

have for sale a ps 7 power supply,serial 559 still has connctions to connect to tr7,has manual and fan opion.askin 100.00 plus shipping or maybe we can deal email me

[Non-text portions of this message have been removed]

Winter sun and ski - http://www.tiscali.co.uk/travel/

[Non-text portions of this message have been removed]

1423. Drake six meter station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-30 23:43:55 UTC
From: hummerham
Topic: 1423 Message: 1423

I have for sale an excellent Drake six meter station that has been completely restored. It works like new and looks great. The transceiver has the LSB, USB, and AM filters as well as the highly desireable Noise Blanker and original manual. This is hard to find equipment...especially the remote VFO. The station consists of:
TR-6 $750
RV-6 $750
I also have the AC-4 power supply, MS-4 speaker, W-4 swr/watt meter, and a new Shure 444 mic that I will sell with the station or separately After the TR-6/RV-6 sell. Some trades will be considered. Please email offers. Thanks & 73...Butch...K3AFR... k3afr@...

1424. 60 mtrs on the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-31 17:45:47 UTC
From: jch39_99
Topic: 1424 Message: 1424

This may be another of my the-answer-is-obvious questions ... but how can I be sure I don't exceed the 50w power limit on 60 mtrs? I turned the mic gain down some but my Ant Tuner meter still shows peaks that are well above the 50 watts ... and if I turn it down more, then seem to have little or not output most of the time ... or should I just not worry about it? Using the hand mic I got w/ the TR-7. Setting the power output is easy on CW.
73/Crit/K4BXN

1425. WTB: MS-4 GRILL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-10-31 23:26:58 UTC
From: Dale Parfitt
Topic: 1425 Message: 1425

I am looking for just the front grill (no logo needed) of an MS-4,
Or perhaps an MS-4 in very poor condition, but with the grill unaltered.

Tnx,

Dale W4OP

1426. Re: [DrakeRadio] 60 mtrs on the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-01 13:43:12 UTC
From: Al Scanandoah
Topic: 1424 Message: 1426

Crit

The most reliable way to limit your TX power would be to adjust your ALC control (beneath the high-pass filter assy.) to 50 watts. Of course, that means that if you want to run > 50w on any other band, you'll have to reset the pot.

Al, K2ZN

jch39_99 wrote:
> This may be another of my the-answer-is-obvious questions ... but how
> can I be sure I don't exceed the 50w power limit on 60 mtrs? I turned
> the mic gain down some but my Ant Tuner meter still shows peaks that
> are well above the 50 watts ... and if I turn it down more, then seem
> to have little or not output most of the time ... or should I just not
> worry about it? Using the hand mic I got w/ the TR-7. Setting the
> power output is easy on CW.
> 73/Crit/K4BXN
>
>
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> Yahoo! Groups Links
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1427. WTB: Drake MN-2700

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-01 19:10:28 UTC
From: galiaf1@yahoo.com
Topic: 1427 Message: 1427

Hi Guys,

I am a new kid on this block.
I would really like to buy the MN-2700 Tuner .
Only in excellent condx.
Please send me your offers and pictures off the list.

Thanks,

ilan Yacobi.

[Non-text portions of this message have been removed]

1428. 4B/4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 11:25:09 UTC
From: Victor Waddington
Topic: 1428 Message: 1428

Hi all
just a couple of queries.
1) Does the R-4B have the same nylon drive gear assembly to the PTO as the 4C? In fact does it also have the same PTO?
2) Don't have a cct. for TR7 or a PS-7 so which are the VOX pins to use with a linear - my linear has a built in relay which is activated by the VOX (linear) pins on the TX.
Cheers

Vic

1429. Re: [DrakeRadio] 4B/4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 16:05:28 UTC
From: Garey Barrell
Topic: 1428 Message: 1429

Vic -

No, the B has a single dial disc, kHz are read from the marks on the main tuning knob skirt. Just as accurate, and essentially the same PTO. It DOES have a single nylon gear to drive the single disc. The only real difference in ALL the Drake PTOs in the 4 AND 7 lines is the one used in the TR-4CwRIT and the TR-7 / RV-7. All the earlier PTOs use the little terminal on the side just behind the gearbox for RTTY shift. In the /RIT and 7 line PTOs this terminal is used to connect to an internal varicap network for the RIT function. The TR-4 series PTOs cover 600 kHz while the others cover 500 kHz.

A fair copy of the OP manual for the TR-7 is available at

<http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm>

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Hi all
> just a couple of queries.
> 1) Does the R-4B have the same nylon drive gear assembly to the PTO as
> the 4C? In fact does it also have the same PTO?
> 2) Don't have a cct. for TR7 or a PS-7 so which are the VOX pins to use
> with a linear - my linear has a built in relay which is activated by
> the VOX (linear) pins on the TX.
> Cheers
>
> Vic
>
>
> ------------------------------------
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> Yahoo! Groups Links
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>

1430. Re: [DrakeRadio] 4B/4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 16:49:50 UTC
From: g4jss@tiscali.co.uk
Topic: 1428 Message: 1430

Hi Garey

Thanks again.

I think I understand what you mean. So the nylon drive cogs to a single perspex dial (4B) will be a different setup to the twin dial 4C.

So the drive cog units are not interchangeable.

If you can be bothered which pins are the VOX (linear) pins on the TR&

73

Vic

----Original Message----
From: k4oah@...
Date: 02/11/2008 16:05
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] 4B/4C

Vic -

No, the B has a single dial disc, kHz are read from the marks on the main tuning knob skirt. Just as accurate, and essentially the same PTO. It DOES have a single nylon gear to drive the single disc. The only real difference in ALL the Drake PTOs in the 4 AND 7 lines is the one used in the TR-4CwRIT and the TR-7 / RV-7. All the earlier PTOs use the little terminal on the side just behind the gearbox for RTTY shift. In the /RIT and 7 line PTOs this terminal is used to connect to an internal varicap network for the RIT function. The TR-4 series PTOs cover 600 kHz while the others cover 500 kHz.

A fair copy of the OP manual for the TR-7 is available at

<http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm>

73, Garey - K4OAH
St Charles, IL

Victor Waddington wrote:
> Hi all
> just a couple of queries.
> 1) Does the R-4B have the same nylon drive gear assembly to the PTO as
> the 4C? In fact does it also have the same PTO?
> 2) Don't have a cct. for TR7 or a PS-7 so which are the VOX pins to use
> with a linear - my linear has a built in relay which is activated by
> the VOX (linear) pins on the TX.

> Cheers
>
> Vic
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> Yahoo! Groups Links
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http://www.tiscali.co.uk/services/

[Non-text portions of this message have been removed]

1431. Re: [DrakeRadio] 4B/4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 17:06:21 UTC
From: Garey Barrell
Topic: 1428 Message: 1431

Vic -

The C-Line PTO "might" be able to be grafted into a B Line. I've never tried it, but my concern would be the clearance between the chassis and the panel for TWO dial discs. The three mounting screws are the same, and all power connections are the same. The frequency range and output level is the same, so ... Let me know if you try it!!

The linear connections are provided on the PS-7 power supply. I think you are using a non-Drake supply, so the connections are at Pins 8 and 10 (GND) of the Power Supply control connector, which is the 10 pin Jones connector. The relay contacts are rated at 2A at 120 VAC, so should be able to handle most linears.

73, Garey - K4OAH
St Charles, IL

g4jss@... wrote:
> Hi Garey
>
> Thanks again.
>
> I think I understand what you mean. So the nylon drive cogs to a single perspex dial (4B) will be a different setup to the twin dial 4C.
>
> So the drive cog units are not interchangeable.
>
> If you can be bothered which pins are the VOX (linear) pins on the TR&
>
> 73
>
>
>
> Vic
>
> ----Original Message----
> From: k4oah@...
> Date: 02/11/2008 16:05
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] 4B/4C
>
>
>
>
>
>
>

>
> Vic -
>
> No, the B has a single dial disc, kHz are read from the marks on the
> main tuning knob skirt. Just as accurate, and essentially the same
> PTO. It DOES have a single nylon gear to drive the single disc. The
> only real difference in ALL the Drake PTOs in the 4 AND 7 lines is the
> one used in the TR-4CwRIT and the TR-7 / RV-7. All the earlier PTOs use
> the little terminal on the side just behind the gearbox for RTTY shift.
> In the /RIT and 7 line PTOs this terminal is used to connect to an
> internal varicap network for the RIT function. The TR-4 series PTOs
> cover 600 kHz while the others cover 500 kHz.
>
> A fair copy of the OP manual for the TR-7 is available at
>
> <http://www.wb4hfn.com/DRAKE/DrakeManuals/TR7/Manual_TR7.htm>
>
> 73, Garey - K4OAH
> St Charles, IL
>
> Victor Waddington wrote:
>
>> Hi all
>> just a couple of queries.
>> 1) Does the R-4B have the same nylon drive gear assembly to the PTO as
>> the 4C? In fact does it also have the same PTO?
>> 2) Don't have a cct. for TR7 or a PS-7 so which are the VOX pins to use
>> with a linear - my linear has a built in relay which is activated by
>> the VOX (linear) pins on the TX.
>> Cheers
>>
>> Vic
>>

1432. Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 18:32:37 UTC
From: ron grzelak
Topic: 1432 Message: 1432

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it. Thanks in advance. Ron K1BW

[Non-text portions of this message have been removed]

1433. Info Wanted on Gilfer GAR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 19:19:21 UTC
From: hetman45
Topic: 1433 Message: 1433

Hello, I've just acquired a Gilfer GAR-7 digital readout which physically resembles an E-tek FR-4.However, it doesn't work like it. I want to use it on my R-4B and I connected it to the inj. port on the R-4B.The GAR-7 lights up and reads 455.0 and doesn't move when I'm at the desired frequency on the R-4B.Can anybody assist me with info on this unit.Gilfer is out of business so I can't contact them. Tnx, 73, Joel

1434. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 21:51:51 UTC
From: Garey Barrell
Topic: 1432 Message: 1434

Ron -

LOTS of possibilities.... Do you still have 13.6 VDC or so at the ACCY Jack on the back of the transceiver after the "thunk?" If yes, you may have a blown fuse (inside right front corner) - OR - a shorted PA transistor(s). If no, the Overvoltage Triac may be shorted or just misadjusted. There are four pins on the power connector, one suppies power ONLY to the PA brick, the other one supplies 13.6V to the rest of the radio. The other two are ground (chassis).

Save yourself a lot of headaches and get a Service Manual. There are lousy "free" copies on the internet with muddy photos and cut-up schematics, I found a CD version with good photos and full size schematics from a WB3 selling on EBay, but I'm away from home and don't have the call. It was I think $12 delivered. Or originals show up often on EBay for $30 - $50.

There is a nice description of the TR-7 cards and their functions along with general information at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-Menu.htm>

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Line and TR-4/C Service Supplement CDs
<www.k4oah.com>

ron grzelak wrote:
> I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it. Thanks in advance. Ron K1BW e
>

1435. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 22:07:03 UTC
From: Garey Barrell
Topic: 1432 Message: 1435

Ron -

Sorry, the AUX DC Phono jack is on the back of the PS-7 Power Supply,
not the transceiver. Careful not to short it when probing. There is a
small fuse inside the PS-7 to protect it.

Garey Barrell wrote:
> Ron -
>
> LOTS of possibilities.... Do you still have 13.6 VDC or so at the ACCY
> Jack on the back of the transceiver after the "thunk?" If yes, you may
> have a blown fuse (inside right front corner) - OR - a shorted PA
> transistor(s). If no, the Overvoltage Triac may be shorted or just
> misadjusted. There are four pins on the power connector, one suppies
> power ONLY to the PA brick, the other one supplies 13.6V to the rest of
> the radio. The other two are ground (chassis).
>
> Save yourself a lot of headaches and get a Service Manual. There are
> lousy "free" copies on the internet with muddy photos and cut-up
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> schematics from a WB3 selling on EBay, but I'm away from home and don't
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> <http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-Menu.htm>
>
> 73, Garey - K4OAH
> St Charles, IL
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> Drake 2-B, 4B & C-Line and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> ron grzelak wrote:
>
>> I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the
power supply goes "thunk" but nothing else happens. There is no receive, no transmit,
nothing lights up and nothing goes up in smoke (which is a good thing). So where do I
start? Also, I do not have a book for it. Thanks in advance. Ron K1BW e
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1436. R-4 Hum Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-02 22:43:38 UTC
From: tnham63
Topic: 1436 Message: 1436

My R-4 just developed a slight hum on the audio. Had been
working pretty good after re-aligning the passband.Now
it sounds terrible.
Any ideas what to replace or check ????

Thanks
WINK
WA8KOQ

1437. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-03 07:24:23 UTC
From: g4jss@tiscali.co.uk
Topic: 1432 Message: 1437

Ron

I have very limited knowledge on the TR7 (most of what I know has come from Garey!) but might I suggest that you determine if it's your PSU or the rig.

Next to the fan housing is a 4 pin Cinch-Jones plug. If you connect 12v (a battery would do) to the two bottom pins the rig should come on. The bottom left hand pin (nearest the fan housing is Gnd. The bottom right hand pin is +ve.

At least you will know which is at fault.

Vic

----Original Message----
From: k1bwhotmail@...
Date: 02/11/2008 18:32
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Drake Tr-7 Help

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it. Thanks in advance. Ron K1BW

[Non-text portions of this message have been removed]

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http://www.tiscali.co.uk/services/
_____

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1438. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-03 09:21:51 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1438

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1439. Re: R-4 Hum Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-04 13:19:57 UTC
From: tjb813
Topic: 1436 Message: 1439

-
The first most obvious is the filter cap. Parallel a good value (same C more voltage) with each section and test to see if the hum reduces or disappears. If the hum goes away, you know what to fix. But, if the hum reduces but does not disappear, it more than likely is a filament to cathode leak. Slight hum can sometimes be produced by a small cathode to filament leak. Could be in most any tube as it get into the low voltage supply. Swap tubes one at a time with known good ones until it clears up.

Also check the cap in the cathode circuit of the audio output tube.

Just a few places to start.

-- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> My R-4 just developed a slight hum on the audio. Had been
> working pretty good after re-aligning the passband.Now
> it sounds terrible.
> Any ideas what to replace or check ????
>
> Thanks
> WINK
> WA8KOQ
>

1440. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-04 21:36:35 UTC
From: ron grzelak
Topic: 1432 Message: 1440

Hi Garey..OK I will try some of those ideas over the weekend..73 Ron K1BW

--- On Sun, 11/2/08, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 2, 2008, 5:07 PM

Ron -

Sorry, the AUX DC Phono jack is on the back of the PS-7 Power Supply,
not the transceiver. Careful not to short it when probing. There is a
small fuse inside the PS-7 to protect it.

Garey Barrell wrote:
> Ron -
>
> LOTS of possibilities. ... Do you still have 13.6 VDC or so at the ACCY
> Jack on the back of the transceiver after the "thunk?" If yes, you may
> have a blown fuse (inside right front corner) - OR - a shorted PA
> transistor(s) . If no, the Overvoltage Triac may be shorted or just
> misadjusted. There are four pins on the power connector, one suppies
> power ONLY to the PA brick, the other one supplies 13.6V to the rest of
> the radio. The other two are ground (chassis).
>
> Save yourself a lot of headaches and get a Service Manual. There are
> lousy "free" copies on the internet with muddy photos and cut-up
> schematics, I found a CD version with good photos and full size
> schematics from a WB3 selling on EBay, but I'm away from home and don't
> have the call. It was I think $12 delivered. Or originals show up
> often on EBay for $30 - $50.
>
> There is a nice description of the TR-7 cards and their functions along
> with general information at
>
> <http://www.wb4hfn. com/DRAKE/ DrakeArticles/ InsideTheTR7/ Inside_The_ TR7-Menu. htm>
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> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 4B & C-Line and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> ron grzelak wrote:
>

>> I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it. Thanks in advance. Ron K1BW e
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1441. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-04 21:38:48 UTC
From: ron grzelak
Topic: 1432 Message: 1441

Hi Vic..Ok i'll try that idea over the weekend..74 ron K1BW

--- On Mon, 11/3/08, g4jss@... <g4jss@...> wrote:

From: g4jss@tiscali.co.uk <g4jss@...>
Subject: Re: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogroups.com
Date: Monday, November 3, 2008, 2:24 AM

Ron

I have very limited knowledge on the TR7 (most of what I know has come from Garey!) but might I suggest that you determine if it's your PSU or the rig.

Next to the fan housing is a 4 pin Cinch-Jones plug. If you connect 12v (a battery would do) to the two bottom pins the rig should come on. The bottom left hand pin (nearest the fan housing is Gnd. The bottom right hand pin is +ve.

At least you will know which is at fault.

Vic

----Original Message----
From: k1bwhotmail@ yahoo.com
Date: 02/11/2008 18:32
To: <DrakeRadio@yahoogro ups.com>
Subj: [DrakeRadio] Drake Tr-7 Help

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it.. Thanks in advance. Ron K1BW

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co.uk/services/
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1442. Mic drive low on T4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-05 03:46:21 UTC
From: captcurt2000
Topic: 1442 Message: 1442

Good evening gentlemen:

Working on my old T4x. It has been recapped and has been working like a champ on PSK31.

I decided to try some SSB and it wont produce any (very little) output.

I cannot drive the mic gain high enough to get any reasonable plate current.

Now, the audio stage runs ok if I run it hard enough with the PSK input, and I can whistle into the mike pretty loud and drive it up to where it should be, but normal voice will not do it. It also does the same thing on CW, gain needs to be EXTREMELY hi to get a normal output PA current.

In tune, it looks fine.

I have compared inputs to the balanced mod with a scope to see the relative signal levels there between the PSK audio and the mike audio and it is a big difference.

I have tried alternate mics--same result. I have tried the mike (same one I've been using for 40 years (EV 664) on another input device and it seems to be working fine.

All resistances look as they should in the mic amp stages and the only voltage that looks out of line is the grid voltage on the first mic amp (12AX7) chart says -.9, I have -1.4.

Not sure why yet. the grid resistor measures 3.48M to ground. and the cathode is grounded.

Plate voltages are just slightly high on the first mic stage.

I replaced the .47MF coupling cap off the cathode of the 2nd mic stage.

Anyone have any suggestions on where to look next?

BTW, the 12AX7s have been swapped with new (more than one different tube)

One other puzzling item.

While going through a touch-up alignment according to the manual, the part where it adjusts the first osc to center on the USB and LSB filters and adjusting the IF amp and balanced modulator for max, cannot be performed as written up.

The first step calls for unbalancing the carrier bal and adjusting the osc to get some plate current. I cannot do that..It will not generate any noticeable drive that way--it will in TUNE, but not in any other mode. Seems this might be related.

I aligned the balanced mod and IF by killing the second xtal osc and monitoring the rf stream at the input of v-3 the mixer. You can see very low levels there and I have done the alignment that way previously. Again, the carrier can balance to nil and the rig runs with plenty of drive with significant enough audio drive from the soundcard.

So..I'm pretty much at wits end tonite. Any direction?

Thanks a bunch,

Curt
KU8L

1443. Re: Mic drive low on T4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-05 14:13:26 UTC
From: captcurt2000
Topic: 1442 Message: 1443

Here is some more quntitative information on the input levels:

With the gain control set to 10:00, which has been a nominally correct amount of gain in the past, it is taking 1.5V P-P from the sound card to drive the PA current to 150mA.

Of course, this is way out of whack for a mike input. The mike will put no more than about a third of that with a loud input.

> Curt
> KU8L
>

1444. Re: Mic drive low on T4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-05 14:40:45 UTC
From: captcurt2000
Topic: 1442 Message: 1444

Another curious observation is that the VOX seems to work pretty much as it should. Even with the gain control at 10:00, the VOX will kick in at about mid-vox-gain setting with a normal voice input.

This really puzzles me now.

Does anyone have any signal-level reference measurements for these sections?

Curt
> KU8L
>

1445. New member intro

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-06 19:01:52 UTC
From: Pete Theer
Topic: 1445 Message: 1445

Hello to the Group!

I have been a ham since 1961. Went through 3 wives, but always came back to ham radio. Stroke in 2003 left me in a wheelchair, but ham radio keeps me busy. Started collecting Classic Icoms but still hanging on to my trusty pair of Drake twins T4XB/R4B/MN4 in my old radio room no longer accessible in my wheelchair and sitting idle for nearly 20 years. Anyone know of a source for new power supply boards/components to rejuvenate them?

I've posted some photos of past stations/towers from 1961 to 2008 in the group's PHOTO section in a album K5PRT.

You can also find out more about me (if you're interested) on QRZ.com or my website at:

http://www.k5rpt.com

Best 73,
Pete
K5PRT (ex: WA2YDG, WB5RPU)

1446. Re: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-06 21:42:49 UTC
From: ron grzelak
Topic: 1432 Message: 1446

HI Vic..well I put the 12 vdc on the pins and nothing lit up, so I guess I will be digging into the unit itself on Saturday! Thanks for the tip!

73 Ron K1BW

--- On Mon, 11/3/08, g4jss@... <g4jss@...> wrote:

From: g4jss@... <g4jss@...>
Subject: Re: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogroups.com
Date: Monday, November 3, 2008, 2:24 AM

Ron

I have very limited knowledge on the TR7 (most of what I know has come from Garey!) but might I suggest that you determine if it's your PSU or the rig.

Next to the fan housing is a 4 pin Cinch-Jones plug. If you connect 12v (a battery would do) to the two bottom pins the rig should come on. The bottom left hand pin (nearest the fan housing is Gnd. The bottom right hand pin is +ve.

At least you will know which is at fault.

Vic

----Original Message----
From: k1bwhotmail@ yahoo.com
Date: 02/11/2008 18:32
To: <DrakeRadio@yahoogro ups.com>
Subj: [DrakeRadio] Drake Tr-7 Help

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it.. Thanks in advance. Ron K1BW

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1447. RE: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-06 22:14:31 UTC
From: Keith R. Erickson
Topic: 1432 Message: 1447

Was the switch in the "on" position on the TR7 itself.

K0GNW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ron grzelak
Sent: Thursday, November 06, 2008 3:43 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake Tr-7 Help

HI Vic..well I put the 12 vdc on the pins and nothing lit up, so I guess I will be digging into the unit itself on Saturday! Thanks for the tip!

73 Ron K1BW

--- On Mon, 11/3/08, g4jss@... <mailto:g4jss%40tiscali.co.uk> <g4jss@... <mailto:g4jss%40tiscali.co.uk> > wrote:

From: g4jss@... <mailto:g4jss%40tiscali.co.uk> <g4jss@... <mailto:g4jss%40tiscali.co.uk> >
Subject: Re: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Date: Monday, November 3, 2008, 2:24 AM

Ron

I have very limited knowledge on the TR7 (most of what I know has come from Garey!) but might I suggest that you determine if it's your PSU or the rig.

Next to the fan housing is a 4 pin Cinch-Jones plug. If you connect 12v (a battery would do) to the two bottom pins the rig should come on. The bottom left hand pin (nearest the fan housing is Gnd. The bottom right hand pin is +ve.

At least you will know which is at fault.

Vic

----Original Message----
From: k1bwhotmail@ yahoo.com
Date: 02/11/2008 18:32
To: <DrakeRadio@yahoogro ups.com>
Subj: [DrakeRadio] Drake Tr-7 Help

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it..

Thanks in advance. Ron K1BW

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1448. TR-4 Screed and Plate ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-07 00:13:21 UTC
From: Tim Stotenburg
Topic: 1448 Message: 1448

Hello again,
Something simple this time. I am new to tubes and am trying to determine Which are the Screen and Plate supply that run through the PA cage as per the alighnment proceedures. I am attempting to adjust the ballanced modulator on my TR-4.
Thanx,

Tim Ki6NQT in Sacramento CA.

1449. Re: [DrakeRadio] New member intro

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-07 01:23:12 UTC
From: Don
Topic: 1445 Message: 1449

Welcome to the group Pete !

I think you pulled one of my tricks when you posted your webpage link!

http://www.k5prt.com/

I think this one is correct. Nice site by the way, and thanks for posting your shack photos to the photos section.

Don
AD7LL
http://www.srcisra.org/

Most folks are about as happy as they make up their minds to be.
~Abraham Lincoln~

----- Original Message -----
From: Pete Theer
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 06, 2008 12:01 PM
Subject: [DrakeRadio] New member intro

Hello to the Group!

I have been a ham since 1961. Went through 3 wives, but always came back to ham radio. Stroke in 2003 left me in a wheelchair, but ham radio keeps me busy. Started collecting Classic Icoms but still hanging on to my trusty pair of Drake twins T4XB/R4B/MN4 in my old radio room no longer accessible in my wheelchair and sitting idle for nearly 20 years. Anyone know of a source for new power supply boards/components to rejuvenate them?

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You can also find out more about me (if you're interested) on QRZ.com or my website at:

http://www.k5rpt.com

Best 73,
Pete
K5PRT (ex: WA2YDG, WB5RPU)

[Non-text portions of this message have been removed]

1450. Re: [DrakeRadio] TR-4 Screed and Plate ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-07 01:44:38 UTC
From: rrkrr
Topic: 1448 Message: 1450

Tim,
The plates are connected to the terminals on top of the tubes. The supply voltage is connected to the bottom of the large vertical RF choke wound on the same form that holds up the plate cap connections. The screens are connected to pins 1 and 7 on the bottom of each tube. The pins are numbered 1 to 9 starting at the gap and moving clockwise when looking at the bottom of the socket - the sockets should be marked with the numbers.

Bob
K4ERR

http://www.radiomuseum.org/tubes/tube_6jb6.html

Tim Stotenburg wrote:
>
> Hello again,
> Something simple this time. I am new to tubes and am trying to
> determine Which are the Screen and Plate supply that run through the PA
> cage as per the alighnment proceedures. I am attempting to adjust the
> ballanced modulator on my TR-4.
> Thanx,
>
> Tim Ki6NQT in Sacramento CA.
>
>

1451. Re: [DrakeRadio] TR-4 Screed and Plate ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-07 03:20:48 UTC
From: Garey Barrell
Topic: 1448 Message: 1451

Tim -

The feedthrough that looks like black plastic, second from the rear of the transceiver, is the Plate lead. The next one toward the front of the unit is the Screen lead. Be careful unsoldering the one that is a ceramic feedthrough (Screen) is easily damaged with too much heat or mechanical stress. It's also a bear to replace. Also, the insulation on the hookup wire is VERY susceptible to heat and will crawl back with just soldering heat. So it's best to unsolder the lead to the RF choke on the INSIDE of the shield rather than the hookup wire.

Be _S_U_R_E_ to discharge each of these leads to the chassis after disconnecting the power supply before touching them. If you're used to solid state, these things BITE!!

73, Garey - K4OAH
Atlanta

Drake 2-B, 4B & 4C Line & TR-4/C Service Supplement CDs
http://www.k4oah.com

Tim Stotenburg wrote:
> Hello again,
> Something simple this time. I am new to tubes and am trying to
> determine Which are the Screen and Plate supply that run through the PA
> cage as per the alighnment proceedures. I am attempting to adjust the
> ballanced modulator on my TR-4.
> Thanx,
>
> Tim Ki6NQT in Sacramento CA.
>
>
>

1452. RE: [DrakeRadio] Drake Tr-7 Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-07 21:47:04 UTC
From: ron grzelak
Topic: 1432 Message: 1452

Hi Keith..yes it was..73 Ron K1BW

--- On Thu, 11/6/08, Keith R. Erickson <kognw@...> wrote:

From: Keith R. Erickson <kognw@...>
Subject: RE: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 6, 2008, 5:14 PM

Was the switch in the "on" position on the TR7 itself.

K0GNW

From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On Behalf Of ron grzelak
Sent: Thursday, November 06, 2008 3:43 PM
To: DrakeRadio@yahoogro ups.com
Subject: Re: [DrakeRadio] Drake Tr-7 Help

HI Vic..well I put the 12 vdc on the pins and nothing lit up, so I guess I will be digging into the unit itself on Saturday! Thanks for the tip!

73 Ron K1BW

--- On Mon, 11/3/08, g4jss@tiscali. co.uk <mailto:g4jss% 40tiscali. co.uk> <g4jss@tiscali. co.uk <mailto:g4jss% 40tiscali. co.uk> > wrote:

From: g4jss@tiscali. co.uk <mailto:g4jss% 40tiscali. co.uk> <g4jss@tiscali. co.uk <mailto:g4jss% 40tiscali. co.uk> >
Subject: Re: [DrakeRadio] Drake Tr-7 Help
To: DrakeRadio@yahoogro ups.com <mailto:DrakeRadio% 40yahoogroups. com>
Date: Monday, November 3, 2008, 2:24 AM

Ron

I have very limited knowledge on the TR7 (most of what I know has come from Garey!) but might I suggest that you determine if it's your PSU or the rig..

Next to the fan housing is a 4 pin Cinch-Jones plug. If you connect 12v (a battery would do) to the two bottom pins the rig should come on. The bottom left hand pin (nearest the fan housing is Gnd. The bottom right hand pin is +ve.

At least you will know which is at fault.

Vic

----Original Message----
From: k1bwhotmail@ yahoo.com

Date: 02/11/2008 18:32
To: <DrakeRadio@ yahoogro ups.com>
Subj: [DrakeRadio] Drake Tr-7 Help

I recently obtained a non working Drake TR-7 and power supply. When you turn it on, the power supply goes "thunk" but nothing else happens. There is no receive, no transmit, nothing lights up and nothing goes up in smoke (which is a good thing). So where do I start? Also, I do not have a book for it.. Thanks in advance. Ron K1BW

[Non-text portions of this message have been removed]

_____ _____ _____ _____ _____ _____
Jobs, Money, exclusive discounts and more from Tiscali -
http://www.tiscali. . co.uk/services/
_____ _____ _____ _____ _____

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1453. Re: TR-4 Screed and Plate ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 02:14:33 UTC
From: Tim Stotenburg
Topic: 1448 Message: 1453

Thank you Rob and Garey,
You have Helped me a lot by taking the guess work out of the equasion.
I am working on getting another TR-4 working but this one has the
noise blanker which is very nice!
73s
Tim

1454. Re: Mic drive low on T4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 15:00:25 UTC
From: captcurt2000
Topic: 1442 Message: 1454

Nothing?

I am slowly acquirinng some of the tubes including finals that I havent already replaced. As it is I have replaced or exchanged every tube in the RF chain ex the finals + the mic amp.

Perhaps.

Curt

1455. Re: Mic drive low on T4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 15:01:31 UTC
From: captcurt2000
Topic: 1442 Message: 1455

Nothing?

I am slowly acquirinng some of the tubes including finals that I havent already replaced. As it is I have replaced or exchanged every tube in the RF chain ex the finals + the mic amp. Just seems strange that it might be finals since it runs tune-up as it should, ie, no lack of drive.

Perhaps.

Curt

1456. T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 15:15:04 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1456

Hello!

Well, I am back on the repair of a T-4XB and I have found it switches from RX to TX and then stays there for a variable period. Sometimes it is just less that a second but it gets worse progressively and finally is stuck in TX. Should I suspect of the 6EV7?. Any other thing to check?. I have set VOX control at minimum but it makes no difference.

Thanks!

Best regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1457. Re: [DrakeRadio] T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 15:30:40 UTC
From: Garey Barrell
Topic: 1442 Message: 1457

Jose -

Quite likely the 6EV7, caused by gas or grid emission. Gets
progressively worse as the tube heats up.

Assume you have verified bias supply voltage and VOX Delay control.
There are some large value resistors in the biasing for the 6EV7 that go
up in value.

73, Garey - K4OAH
Rome, GA

Drake 2-B, 4B & 4C Line & TR-4/C Service Supplement CDs
www.k4oah.com

Jose V. Gavila wrote:
> Hello!
>
> Well, I am back on the repair of a T-4XB and I have found it switches from
> RX to TX and then stays there for a variable period. Sometimes it is just
> less that a second but it gets worse progressively and finally is stuck in
> TX. Should I suspect of the 6EV7?. Any other thing to check?. I have set
> VOX control at minimum but it makes no difference.
>
> Thanks!
>
> Best regards,
>
> JOSE
>
>

1458. Re: [DrakeRadio] T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 16:17:42 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1458

Hi Garey,

Thanks a lot for your answer!

>Quite likely the 6EV7, caused by gas or grid emission. Gets
>progressively worse as the tube heats up.

Yes, it starts working fine but in some seconds gets worse and in minutes
fails completely to switch TX/RX

>Assume you have verified bias supply voltage and VOX Delay control.
>There are some large value resistors in the biasing for the 6EV7 that go
>up in value.

I have checked them and are close enough to nominal values so I guess I am
out of luck.

Of course, I have some thousand tubes in stock but NO 6EV7 :-(. Any sub
besides 6FQ7 (which I don't have either)?

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

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1459. Re: [DrakeRadio] T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 16:49:42 UTC
From: rrkrr
Topic: 1442 Message: 1459

Jose,
Have you replaced the electrolytic capacitors in the power supply and on the radio chassis? When switching from TX to RX, the load on the power supply changes and the resulting transient has to be absorbed by the power supply capacitors. If the power supply electrolytic capacitors are corroded or leaky, the result is a voltage ramp on the power supply lines, which gets coupled into many places in the radio and can interfere with the operation of the relay driver circuit. There are many options for replacing the electrolytics, but from personal experience I can recommend the the AC-4 power supply rebuild kit offered here:

http://www.sunlightenergysystems.com/theheathkitshop/

The electrolytic filter capacitors on the TX chassis should also be replaced.

Bob
K4ERR

Jose V. Gavila wrote:
>
> Hello!
>
> Well, I am back on the repair of a T-4XB and I have found it switches
> from
> RX to TX and then stays there for a variable period. Sometimes it is just
> less that a second but it gets worse progressively and finally is
> stuck in
> TX. Should I suspect of the 6EV7?. Any other thing to check?. I have set
> VOX control at minimum but it makes no difference.
>
> Thanks!
>
> Best regards,
>
> JOSE
> --
> 73 EB5AGV - JOSE V. GAVILA
> IM99sm La Canyada - Valencia (SPAIN)
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>
>

1460. Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 17:29:15 UTC
From: w5rkl
Topic: 1442 Message: 1460

This appears to be a heat related problem possibly in V10 (6EJ7).

Pulling V10 should cause the relay to de-energize.

A gassy V10 will cause this problem. A gassy V10 can cause pin 7 (grid
of V10B) to go positive which will cause V10B to conduct, energizing
the relay regardless of the VOX gain and anti-VOX control settings.

If you have a spare 6EJ7 then by all means replace it with a known
good 6EJ7.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, rrkrr <rrkrr@...> wrote:
>
> Jose,
> Have you replaced the electrolytic capacitors in the power supply and on
> the radio chassis? When switching from TX to RX, the load on the power
> supply changes and the resulting transient has to be absorbed by the
> power supply capacitors. If the power supply electrolytic capacitors
> are corroded or leaky, the result is a voltage ramp on the power supply
> lines, which gets coupled into many places in the radio and can
> interfere with the operation of the relay driver circuit. There are
> many options for replacing the electrolytics, but from personal
> experience I can recommend the the AC-4 power supply rebuild kit offered
> here:
>
> http://www.sunlightenergysystems.com/theheathkitshop/
>
> The electrolytic filter capacitors on the TX chassis should also be
> replaced.
>
> Bob
> K4ERR
>
>
> Jose V. Gavila wrote:
> >
> > Hello!
> >
> > Well, I am back on the repair of a T-4XB and I have found it switches
> > from
> > RX to TX and then stays there for a variable period. Sometimes it
is just

> > less that a second but it gets worse progressively and finally is
> > stuck in
> > TX. Should I suspect of the 6EV7?. Any other thing to check?. I
have set
> > VOX control at minimum but it makes no difference.
> >
> > Thanks!
> >
> > Best regards,
> >
> > JOSE
> > ---
> > 73 EB5AGV - JOSE V. GAVILA
> > IM99sm La Canyada - Valencia (SPAIN)
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> >
> >
>

1461. Re: [DrakeRadio] T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 17:40:59 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1461

Hello Bob,

>Have you replaced the electrolytic capacitors in the power supply and on
>the radio chassis?

Yes and no... yes on the PS (with an AC-4R kit, as you suggested) and no on
the chassis. I will need to check them.

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

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1462. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 17:47:50 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1462

Hello Mike and all the Group,

>This appears to be a heat related problem possibly in V10 (6EJ7).

I guess you mean 6EV7, right?

>Pulling V10 should cause the relay to de-energize.

Yes, it does.

>A gassy V10 will cause this problem. A gassy V10 can cause pin 7 (grid
>of V10B) to go positive which will cause V10B to conduct, energizing
>the relay regardless of the VOX gain and anti-VOX control settings.
>
>If you have a spare 6EJ7 then by all means replace it with a known
>good 6EJ7.

I have located a NOS 6FQ7, which is listed as an equivalent, and it works worse!. TX is enabled as soon as rig is powered and remains in TX...

So I have gone back to original tube and, well, now it is working better than before... it has just an small delay (about 300ms) to return to RX.

But then I have tried to load the rig on a dummy load. And it is only able to load to about 90W up to 40m. Going higher, as in 20m, it barely produces about 25W and with the PLATE control almost at maximum and having a very acute DIP. LOAD has little influence... soft finals perhaps?

Regards,

JOSE (who has spent far too many years working only on SS rigs and has forgotten how to deal with tubed gear :-( )
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

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1463. Source for 6JB6's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 18:05:49 UTC
From: DALE PARFITT
Topic: 1463 Message: 1463

Does anyone have a preferred source for NOS 6BJ6's? I already got stung via a private source.

Dale W4OP

[Non-text portions of this message have been removed]

1464. Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 18:17:49 UTC
From: w5rkl
Topic: 1442 Message: 1464

Hi Jose,

Yes, you're right, 6EV7. I appologize for that mistake. I honestly don't know where I got 6EJ7 from! The R4C has them so maybe my brain instantly switched to that, who knows.

I wouldn't write off the final tubes just yet. Although it's true, weak finals and/or driver tubes do have an affect on the final output, there may be other things that are causing low output.

You mention you installed the AC4 upgrade kit from Mike Bryce. I'm assuming you checked all the wiring and solder connections to be sure they are correct and good.

The low output can possibly be caused by the finals not being neutralized and/or an alignment issue.

Check the final amplifier's bias setting and adjust accordingly.

Just a few thoughts.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jose V. Gavila" <eb5agv@...> wrote:
>
> Hello Mike and all the Group,
>
> >This appears to be a heat related problem possibly in V10 (6EJ7).
>
> I guess you mean 6EV7, right?
>
> >Pulling V10 should cause the relay to de-energize.
>
> Yes, it does.
>
> >A gassy V10 will cause this problem. A gassy V10 can cause pin 7 (grid
> >of V10B) to go positive which will cause V10B to conduct, energizing
> >the relay regardless of the VOX gain and anti-VOX control settings.
> >
> >If you have a spare 6EJ7 then by all means replace it with a known
> >good 6EJ7.
>
> I have located a NOS 6FQ7, which is listed as an equivalent, and it
works
> worse!. TX is enabled as soon as rig is powered and remains in TX...

>
> So I have gone back to original tube and, well, now it is working
better
> than before... it has just an small delay (about 300ms) to return to RX.
>
> But then I have tried to load the rig on a dummy load. And it is
only able
> to load to about 90W up to 40m. Going higher, as in 20m, it barely
produces
> about 25W and with the PLATE control almost at maximum and having a
very
> acute DIP. LOAD has little influence... soft finals perhaps?
>
> Regards,
>
> JOSE (who has spent far too many years working only on SS rigs and has
> forgotten how to deal with tubed gear :-( )
> ----------
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>

1465. Re: [DrakeRadio] T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 19:10:32 UTC
From: Garey Barrell
Topic: 1442 Message: 1465

Jose -

A more common TV type is the 6CG7. Might be easier to find. I believe the 6BQ7 will also work, although it is a little undersized for the second triode. Would be enough to confirm the problem and/or get it going while you find the "right" tube.!

73, Garey - K4OAH
Rome, GA

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www.k4oah.com

Jose V. Gavila wrote:
> Hi Garey,
>
> Thanks a lot for your answer!
>
> Of course, I have some thousand tubes in stock but NO 6EV7 :-(. Any sub
> besides 6FQ7 (which I don't have either)?
>
> Regards,
>
> JOSE
>
>

1466. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 19:26:01 UTC
From: Garey Barrell
Topic: 1442 Message: 1466

Jose -

You don't mention any problem with the Sidetone. If C129 ESR has gone up, tone can couple across the diode keying circuit, keeping the VOX energized after the key is opened. Bridging with a good cap can verify.

Weak finals will present as you describe, but RF and INJ alignment should be checked before replacing. Also, check R26 for value and condition. This is the resistor that goes crispy when a metal alignment tool is used on the trimmers and accidentally shorts to the chassis, even momentarily. Puts the +250VDC supply directly across that poor little 1/2 W resistor!

73, Garey - K4OAH
Rome, GA

Drake 2-B, 4B & 4C Line & TR-4/C Service Supplement CDs
www.k4oah.com

Jose V. Gavila wrote:
> Hello Mike and all the Group,
>
>
> I have located a NOS 6FQ7, which is listed as an equivalent, and it works
> worse!. TX is enabled as soon as rig is powered and remains in TX...
>
> So I have gone back to original tube and, well, now it is working better
> than before... it has just an small delay (about 300ms) to return to RX.
>
> But then I have tried to load the rig on a dummy load. And it is only able
> to load to about 90W up to 40m. Going higher, as in 20m, it barely produces
> about 25W and with the PLATE control almost at maximum and having a very
> acute DIP. LOAD has little influence... soft finals perhaps?
>
>
>

1467. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 19:58:19 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1467

Hello all,

Thanks for your comments!. I think there are several problems in the rig, so will deal with them one by one... I will check T-4XB electrolytic (C129) and also the resistor (R26) Garey commented.

By the way, how much would you pay for a NOS boxed RCA 6EV7?

Best regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

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http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1468. Re: [DrakeRadio] Source for 6JB6's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 21:08:47 UTC
From: Bill
Topic: 1463 Message: 1468

You could could try here http://www.tubesandmore.com/

Click on underlined Part # for more information

T-6JB6-A

2007 Catalog
page 8

6JB6-A - BEAM POWER AMPLIFIER

This
tube type may be electrically matched in PAIRS for transconductance
only for an additional $2.00 per tube. Construction may vary. If you
would like this matching, please indicate so in the Additional Notes section of your
shopping cart.

$26.30

Qty

Hope it helps. 73's

Bill In Ohio...kc8ilp.....
http://www.kc8ilp.bravehost.com/

--- On Sat, 11/8/08, DALE PARFITT <parinc1@...> wrote:
From: DALE PARFITT <parinc1@...>
Subject: [DrakeRadio] Source for 6JB6's
To: DrakeRadio@yahoogroups.com
Date: Saturday, November 8, 2008, 1:05 PM

Does anyone have a preferred source for NOS 6BJ6's? I already got stung via a private
source.

Dale W4OP

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1469. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-08 21:15:30 UTC
From: Garey Barrell
Topic: 1442 Message: 1469

The 6EV7 seems to go for around $5 here. The 6FQ7 has been glommed onto
by the audio crowd, so they are 3-4 times that. Another possible sub is
the 6GU7 that sometimes sells for a little less.
73, Garey - K4OAH
Rome, GA

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www.k4oah.com

Jose V. Gavila wrote:
> Hello all,
>
> Thanks for your comments!. I think there are several problems in the rig,
> so will deal with them one by one... I will check T-4XB electrolytic (C129)
> and also the resistor (R26) Garey commented.
>
> By the way, how much would you pay for a NOS boxed RCA 6EV7?
>
> Best regards,
>
> JOSE
>
>

1470. CAPS FOR R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-09 20:42:36 UTC
From: tnham63
Topic: 1470 Message: 1470

Having trouble finding the following electrolytic caps
for my R-4 rcvr. Have tried Rf Parts, Surplus Sales and others,
Any ideas where to get these caps or suggested alternatives/
.47mfd 100v ,
.1 mfd 200v
.22 mfd 200v
25 mfd 25v

Thanks
WINK
WA8KOQ

1471. Re: [DrakeRadio] CAPS FOR R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-09 21:06:48 UTC
From: Jim Gerke
Topic: 1470 Message: 1471

Try Mouser Electronics at www.mouser.com.

73, Jim K5JG

tnham63 wrote:
> Having trouble finding the following electrolytic caps
> for my R-4 rcvr. Have tried Rf Parts, Surplus Sales and others,
> Any ideas where to get these caps or suggested alternatives/
> .47mfd 100v ,
> .1 mfd 200v
> .22 mfd 200v
> 25 mfd 25v
>
> Thanks
> WINK
> WA8KOQ
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1472. Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-09 21:16:50 UTC
From: captcurt2000
Topic: 1472 Message: 1472

Have gone back to first steps in the t4x mystery. During the manual specified alignment procedure, I am stopped at the part where it unbalances the carrier balance control to get plate drive. It wont.

There is no sign whatever of plate current above idle no matter what I do with the carrier balance control and RF Gain.

In tune, it generates plenty of drive. In CW, the RF gain needs to be at 3:00 O-clock to get normal PA current and in SSB, it will not produce any drive unless I slam the mic input.

So..what would cause a lack of first oscillator drive with the carrier unbalanced.

I get plenty of oscillator output on the wiper of the balance pot. But very little out of the balanced modulator. Its like it never gets really unbalanced.

In CW, I get the variable DC unbalance voltage but it requires nearly .5Volts of DC there to get the CW output.

Ideas?

Thanks

Curt
KU8L

1473. MSR-2 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 00:36:06 UTC
From: Mike
Topic: 1473 Message: 1473

Hello,

I have a Drake MSR-2 general coverage receiver that isn't working properly. The radio works fine on AM but receives no signals when switched to the SSB/CW mode. All of the filters appear to work properly in the AM mode (including the USB and LSB filters). However, when switched to SSB/CW, there is no audio and no detection of a signal (via the S-meter using a signal generator as source). Another peculiar thing. When switched to SSB/CW, the frequency display does not change when I turn the tuning knob, until I change back to the AM mode. It then shows the new frequency on the display. Anyone out there familar with this receiver and can point me in the right direction?

Thanks

73 de Mike
K7PI

1474. TR-22C available

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 01:06:05 UTC
From: hetman45
Topic: 1474 Message: 1474

Hi,I have a TR-22C with nine crystal pairs installed and working with new nicads,AC/DC cords,original leatherette case, 1525 EM T/T microphone and original manual.It's in very nice cosmetic condition.I'd like to get about $100 for the package but I'll listen to any offers.
73, Joel AE2JL

1475. Re: [DrakeRadio] Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 04:06:22 UTC
From: rrkrr
Topic: 1472 Message: 1475

To start, I would check to see whether the switching diodes are good,
and whether the balanced modulator transformer is tuned properly and has
good windings.

Bob
K4ERR

captcurt2000 wrote:
>
> Have gone back to first steps in the t4x mystery. During the manual
> specified alignment procedure, I am stopped at the part where it
> unbalances the carrier balance control to get plate drive. It wont.
>
> There is no sign whatever of plate current above idle no matter what I
> do with the carrier balance control and RF Gain.
>
> In tune, it generates plenty of drive. In CW, the RF gain needs to be
> at 3:00 O-clock to get normal PA current and in SSB, it will not
> produce any drive unless I slam the mic input.
>
> So..what would cause a lack of first oscillator drive with the carrier
> unbalanced.
>
> I get plenty of oscillator output on the wiper of the balance pot.
> But very little out of the balanced modulator. Its like it never gets
> really unbalanced.
>
> In CW, I get the variable DC unbalance voltage but it requires nearly
> .5Volts of DC there to get the CW output.
>
> Ideas?
>
> Thanks
>
> Curt
> KU8L
>
>

1476. Re: [DrakeRadio] CAPS FOR R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 04:28:09 UTC
From: rrkrr
Topic: 1470 Message: 1476

http://www.digikey.com

TDK Dipped radial lead ceramic capacitors on page 1783 of the current
catalog for your first three, if you will accept voltage ratings that
are a bit higher.

You should find the electrolytic in their catalog too.

Bob
K4ERR

Jim Gerke wrote:
>
> Try Mouser Electronics at www.mouser.com.
>
> 73, Jim K5JG
>
> tnham63 wrote:
> > Having trouble finding the following electrolytic caps
> > for my R-4 rcvr. Have tried Rf Parts, Surplus Sales and others,
> > Any ideas where to get these caps or suggested alternatives/
> > .47mfd 100v ,
> > .1 mfd 200v
> > .22 mfd 200v
> > 25 mfd 25v
> >
> > Thanks
> > WINK
> > WA8KOQ
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
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>

1477. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 05:14:59 UTC
From: captcurt2000
Topic: 1472 Message: 1477

Hi Bob:

I'm looking around the Balanced Modulator now. I havent looked at the diodes with the huntron yet but have another question.

I stated that the output from the carrier osc was good but Im not so sure now after reading a little more on various descriptions.

It seems that the p-p osc output needs to be large enough to turn on the diodes. and I'm not sure that it is.

What should the p-p osc output be on the wiper of the balance conrol? Approx.

I'm only getting .3v. I saw reference to several volts in several documents.

I'll be checking the diodes in the morning.

Thanks

Curt

1478. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 16:17:16 UTC
From: w5rkl
Topic: 1472 Message: 1478

Hi Curt,

Are you measuring the voltage at the carrier null pot in standby or at
full output?

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Hi Bob:
>
> I'm looking around the Balanced Modulator now. I havent looked at the
> diodes with the huntron yet but have another question.
>
> I stated that the output from the carrier osc was good but Im not so
> sure now after reading a little more on various descriptions.
>
> It seems that the p-p osc output needs to be large enough to turn on
> the diodes. and I'm not sure that it is.
>
> What should the p-p osc output be on the wiper of the balance conrol?
> Approx.
>
> I'm only getting .3v. I saw reference to several volts in several
> documents.
>
> I'll be checking the diodes in the morning.
>
> Thanks
>
> Curt
>

1479. UV3 Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 17:20:17 UTC
From: Al Scanandoah
Topic: 1479 Message: 1479

Does anyone know the Cinch Jones P/N for the power connector or its Molex equivalent?

Also, by any odd chance, does anyone have a spare UV3 knob stashed away in a drawer or junque box?

73 & Tnx - Al, K2ZN

1480. Drake FF-1 Pinout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-10 17:40:12 UTC
From: DALE PARFITT
Topic: 1480 Message: 1480

I have been looking into building a Drake FF-1 and have some questions about the pinout shown in the schematic. Unlike the pinout numbers shown for the TR-4C and RV-4 (which shows all odd pins on one side of the connector and even pin numbers on the other side (2,4,6,8) the FF-1 schematic has these mixed and what I would think is the VFO out center coax (pin 6) is shown as grounded on the FF-1 diagram.
Any hints here or am I missing something obvious?

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1481. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 00:25:45 UTC
From: captcurt2000
Topic: 1472 Message: 1481

Hi Mike and Bob:

Well, I've looked at the bal mod diodes and transformer. They all look good. The fwd voltage across the carrier input diode set is .73V

I'm not sure it could be bad and still null out the carrier. It does do that just fine.

In the reading I have done, it seems that the carrier input wants to be several times greater than the audio input.

On the wiper of the balance pot, I get 1V P-P and .5VP-P referenced to ground on each side input to the balanced Modulator (after the 470 Ohm Resistors) This seems as though it is low but I don't have any solid reference info.

I am measuring this by turning off the other xtal oscillator so I just and at each output mode (SSB, Tune, CW, and AM) It is the same for each except for the slight frequency shift on CW and AM.

Not sure what you meant regarding the gain setting. Unless I'm missing something, the carrier oscillator is either on or off--no change in output level with drive gain changes or anything else.

I can go through the alignment of the balanced mod, and the two following tuned circuits by looking at the carrier signal at the input to the mixer. Its the only way to see the small signal. There is absolutely no plate current produced with the balance pot all the way off center so the printed procedure cannot be used. ((yes I try that with the xtal oscillator back on :)

All the resistance values in V1 look ok. I'm thinking that the grid-cathode voltage is telling a story tho--book says 1.6 on the grid and 4.2 on the cathode. I have 3.2 and 3.28 approx. The tube isnt running hard enough.

Could I have a soft crystal? Any way to tell?

Anything else I should look at?

Thankls again guys, I miss my rig!

Curt

1482. Re: [DrakeRadio] Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 00:52:34 UTC
From: mark helinski
Topic: 1472 Message: 1482

drake power supply with fan opion its a ps 7 serial 595 askin 100.00
my email is marksbuffalobills@...

--- On Mon, 11/10/08, captcurt2000 <captcurt@...> wrote:

From: captcurt2000 <captcurt@...>
Subject: [DrakeRadio] Re: Another try with the T4x
To: DrakeRadio@yahoogroups.com
Date: Monday, November 10, 2008, 6:25 PM

Hi Mike and Bob:

Well, I've looked at the bal mod diodes and transformer. They all look good. The fwd voltage across the carrier input diode set is .73V

I'm not sure it could be bad and still null out the carrier. It does do that just fine.

In the reading I have done, it seems that the carrier input wants to be several times greater than the audio input.

On the wiper of the balance pot, I get 1V P-P and .5VP-P referenced to ground on each side input to the balanced Modulator (after the 470 Ohm Resistors) This seems as though it is low but I don't have any solid reference info.

I am measuring this by turning off the other xtal oscillator so I just and at each output mode (SSB, Tune, CW, and AM) It is the same for each except for the slight frequency shift on CW and AM.

Not sure what you meant regarding the gain setting. Unless I'm missing something, the carrier oscillator is either on or off--no change in output level with drive gain changes or anything else.

I can go through the alignment of the balanced mod, and the two following tuned circuits by looking at the carrier signal at the input to the mixer. Its the only way to see the small signal. There is absolutely no plate current produced with the balance pot all the way off center so the printed procedure cannot be used. ((yes I try that with the xtal oscillator back on :)

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Could I have a soft crystal? Any way to tell?

Anything else I should look at?

Thankls again guys, I miss my rig!

Curt

[Non-text portions of this message have been removed]

1483. Re: [DrakeRadio] Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 04:16:22 UTC
From: rrkrr
Topic: 1472 Message: 1483

Curt,
If the grid and cathode voltage on the V1 carrier oscillator are about the same, there's something wrong around there for sure. I'm sure you've already tested the tube. I'd follow that by checking the values of the fixed caps and the grid resistor, then carefully disassemble the C2 trimmer and run the parts through silver tarnish remover - then clean in alcohol and check for shorts across the dielectric and opens between the plates and their respective contacts.

Bob
K4ERR

captcurt2000 wrote:
>
> Hi Mike and Bob:
>
> Well, I've looked at the bal mod diodes and transformer. They all
> look good. The fwd voltage across the carrier input diode set is .73V
>
> I'm not sure it could be bad and still null out the carrier. It does
> do that just fine.
>
> In the reading I have done, it seems that the carrier input wants to
> be several times greater than the audio input.
>
> On the wiper of the balance pot, I get 1V P-P and .5VP-P referenced to
> ground on each side input to the balanced Modulator (after the 470 Ohm
> Resistors) This seems as though it is low but I don't have any solid
> reference info.
>
> I am measuring this by turning off the other xtal oscillator so I just
> and at each output mode (SSB, Tune, CW, and AM) It is the same for
> each except for the slight frequency shift on CW and AM.
>
> Not sure what you meant regarding the gain setting. Unless I'm
> missing something, the carrier oscillator is either on or off--no
> change in output level with drive gain changes or anything else.
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> I can go through the alignment of the balanced mod, and the two
> following tuned circuits by looking at the carrier signal at the input
> to the mixer. Its the only way to see the small signal. There is
> absolutely no plate current produced with the balance pot all the way
> off center so the printed procedure cannot be used. ((yes I try that
> with the xtal oscillator back on :)
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> All the resistance values in V1 look ok. I'm thinking that the
> grid-cathode voltage is telling a story tho--book says 1.6 on the grid
> and 4.2 on the cathode. I have 3.2 and 3.28 approx. The tube isnt
> running hard enough.
>
> Could I have a soft crystal? Any way to tell?
>
> Anything else I should look at?
>
> Thankls again guys, I miss my rig!
>
> Curt
>
>

1484. Passband tuner question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 18:57:04 UTC
From: bosonob2000
Topic: 1484 Message: 1484

Recently I put the audio out of my R4B through my computer to a spectrum analyzer to look at the passband. I noticed that the passband for LSB was not symmetric having a gentle slope toward the high freq. I compared this to the USB passband which is more symmetric and is noticeably higher in signal strength. The LSB is about 60% of the USB strength.

The center of each bandwidth line is the signal peak of a zerobeated CAL signal. The pitch of the dots is about right each side for each bandwidth. However the horizontally left side pitch is not the same as the horizontally right. I know the manual says it should be as part of the alignment. Tuning all the way One side of the passband moves it out much farther than the other. The pitch though for each dot range is about right. I also figure that the panel markings are approximate.I would figure the
tuner should have equal signal strength/shape for the LSB/USB passbands etc.

Before I attempt the manual alignment, is there any other tests or is there a better alihnment procedure? How do you guys align your passbands?

73's
Stefan
KF4UEO

1485. Re: [DrakeRadio] Drake FF-1 Pinout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 19:12:10 UTC
From: Garey Barrell
Topic: 1480 Message: 1485

Dale -

Apparently the schematic that I included on my CD is incorrect.!
Indeed, pins 4 and 6 on the FF-1 schematic are reversed. I've never
owned one, and don't think I've even seen one "in the flesh"! :-)

Sorry for the confusion. I'll correct the schematic on the CD and have
attached a correct version.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have been looking into building a Drake FF-1 and have some questions about the pinout shown in the schematic. Unlike the pinout numbers shown for the TR-4C and RV-4 (which shows all odd pins on one side of the connector and even pin numbers on the other side (2,4,6,8) the FF-1 schematic has these mixed and what I would think is the VFO out center coax (pin 6) is shown as grounded on the FF-1 diagram.
> Any hints here or am I missing something obvious?
>
> Tnx,
>
> Dale W4OP
>

[Non-text portions of this message have been removed]

1486. Re: [DrakeRadio] Drake FF-1 Pinout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 20:09:01 UTC
From: DALE PARFITT
Topic: 1480 Message: 1486

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com ; DALE PARFITT
Sent: Tuesday, November 11, 2008 2:12 PM
Subject: Re: [DrakeRadio] Drake FF-1 Pinout

Great Garey- thanks for the confirmation/ correction.

Dale W4OP

[Non-text portions of this message have been removed]

1487. Re: [DrakeRadio] Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 20:44:58 UTC
From: Garey Barrell
Topic: 1472 Message: 1487

Curt -

I've been traveling and missed most of this one.

The Carrier Oscillator signal should be about 4V p-p at the wiper of the Carrier Balance pot.

More than a few cases have been seen where the diode bridge or a winding inside T14 shorts to the can. The diodes are Germanium, so should show about 0.3V forward junction drop. Measuring at the unbalance DC input you should see two junctions in series.

The frequency shift for CW and AM is typically about 900 Hz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Hi Mike and Bob:
>
> Well, I've looked at the bal mod diodes and transformer. They all
> look good. The fwd voltage across the carrier input diode set is .73V
>
> I'm not sure it could be bad and still null out the carrier. It does
> do that just fine.
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> In the reading I have done, it seems that the carrier input wants to
> be several times greater than the audio input.
>
> On the wiper of the balance pot, I get 1V P-P and .5VP-P referenced to
> ground on each side input to the balanced Modulator (after the 470 Ohm
> Resistors) This seems as though it is low but I don't have any solid
> reference info.
>
> I am measuring this by turning off the other xtal oscillator so I just
> and at each output mode (SSB, Tune, CW, and AM) It is the same for
> each except for the slight frequency shift on CW and AM.
>
> Not sure what you meant regarding the gain setting. Unless I'm
> missing something, the carrier oscillator is either on or off--no
> change in output level with drive gain changes or anything else.
>
> I can go through the alignment of the balanced mod, and the two
> following tuned circuits by looking at the carrier signal at the input

> to the mixer. Its the only way to see the small signal. There is
> absolutely no plate current produced with the balance pot all the way
> off center so the printed procedure cannot be used. ((yes I try that
> with the xtal oscillator back on :)
>
> All the resistance values in V1 look ok. I'm thinking that the
> grid-cathode voltage is telling a story tho--book says 1.6 on the grid
> and 4.2 on the cathode. I have 3.2 and 3.28 approx. The tube isnt
> running hard enough.
>
> Could I have a soft crystal? Any way to tell?
>
> Anything else I should look at?
>
> Thankls again guys, I miss my rig!
>
> Curt
>

1488. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 21:47:28 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1488

Hi Garey,

Here you have my latest findings, following your advice:

>You don't mention any problem with the Sidetone. If C129 ESR has gone
>up, tone can couple across the diode keying circuit, keeping the VOX
>energized after the key is opened. Bridging with a good cap can verify.

I replaced C129 with an under-chassis 100uF/350V capacitor, removing the wire to C129, and it seems to have cured the problem. Great!!!

>Weak finals will present as you describe, but RF and INJ alignment
>should be checked before replacing. Also, check R26 for value and
>condition. This is the resistor that goes crispy when a metal alignment
>tool is used on the trimmers and accidentally shorts to the chassis,
>even momentarily. Puts the +250VDC supply directly across that poor
>little 1/2 W resistor!

R26 is fine and reads OK. Now I have been able to get about 40W on 20m... but it seems there is also a problem with the neutralization.

Anyway, as I have an spare 6JB6 set, I will try it to find if there is a huge improvement (I think so) or not.

BTW, I found also an intermittent problem in the RX/TX relay. I have carefully cleaned contacts and this has improved reception... I guess this set was unused for a long time.

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1489. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 22:05:16 UTC
From: Garey Barrell
Topic: 1442 Message: 1489

Jose -

Cool! One down..... :-)

What brand of 6JB6s are you using. Some brands are difficult to
neutralize, and some will NOT. Best choices are Sylvania, Zenith, RCA
and GE. Other brands may or may not work, depending upon who
actually built them.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi Garey,
>
> Here you have my latest findings, following your advice:
>
> R26 is fine and reads OK. Now I have been able to get about 40W on 20m...
> but it seems there is also a problem with the neutralization.
>
> Anyway, as I have an spare 6JB6 set, I will try it to find if there is a
> huge improvement (I think so) or not.
>

1490. Re: [DrakeRadio] Re: T4-XB stuck on TX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-11 22:54:21 UTC
From: Jose V. Gavila
Topic: 1442 Message: 1490

Hi Garey,

>Cool! One down..... :-)

Yes, thanks!

>What brand of 6JB6s are you using. Some brands are difficult to
>neutralize, and some will NOT. Best choices are Sylvania, Zenith, RCA
>and GE. Other brands may or may not work, depending upon who
>_actually_ built them.

Well, I have some NIB GE units which hope work fine... I will let you know
soon.

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1491. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-12 02:28:41 UTC
From: captcurt2000
Topic: 1472 Message: 1491

Thanks Garey:

I'll double check the can. Yes the diodes check just over .3V junction and nearly .7 in series.

I suspect that if the diodes or can were not working, it would be impossible to null out the carrier--what there is of it. This works ok.

I have double checked the grid cathoide Res, cathode resistors, and the cathode bypass cap by tacking in another. Nothing changes the output. m it is 1V P-P using a Tek scope w/ 100Mhz, 10:1 probe. I do have some REAL expensive FET probes but don't think I need them in this case.

I cleaned the trimmer cap per the other suggestion. I didn't take it apart but 90% IsoPropyl Alcohol works good to remove oxidation on silver.

Just for fun, I put in a 12aU7 and it did just what it should--output was much stronger. I couldn't get the freq right but it confirmed much of what is there is still working.

Knowing the grid-cathode voltages indicate the tube is not running hard enough, how do I go about testing the 5645 crystal? Ever see one go soft?

I have tried several different 12AX7's with no change.

Off to double check the can.

Thanks

Curt

1492. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-12 03:49:26 UTC
From: captcurt2000
Topic: 1472 Message: 1492

Just checked out the T14 can, diodes and the crystal.

Diodes are each a little over .3V fwd.

No shorts or opens in the windings .

Used a Grid Dip meter to test the crystal. Same relative activity
when compared to other similar crystals in the meter.

Not sure where to look next.

Curt

1493. Re: [DrakeRadio] Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-12 04:15:27 UTC
From: rrkrr
Topic: 1472 Message: 1493

Curt,
In the oscillator circuit, the grid resistor should build up negative bias with respect to the cathode due to the current from electrons captured by the grid. Since your grid and cathode voltage are about the same, and the cathode voltage is only 78% of what it should be, there must be something wrong in the grid circuit. The cathode current should be very high with the grid that far positive.

Possibly, you have a low impedance path to ground for the grid current of V1. This would have to be either through the grid resistor, C2, or the crystal. If you disconnect the top of C2 and the top of the crystal from the grid of V1, the proper DC bias condition should result - just without the oscillation. Then try reconnecting the crystal and C2 one at a time to find the culprit.

Perhaps a better idea to explain the symptoms would be that the tube socket pin for the grid is not making a good connection to the V1 grid pin. This would give the grid a high impedance to ground, and a low voltage with respect to the cathode (inside the tube). The cathode current would be lower than normal, but the low grid voltage would not show up in the external circuit, so this idea fits. Is pin 2 of the V1 tube or socket corroded? Is there any chance you need a new tube socket?

Bob
K4ERR

captcurt2000 wrote:
>
> Thanks Garey:
>
> I'll double check the can. Yes the diodes check just over .3V
> junction and nearly .7 in series.
>
> I suspect that if the diodes or can were not working, it would be
> impossible to null out the carrier--what there is of it. This works ok.
>
> I have double checked the grid cathoide Res, cathode resistors, and
> the cathode bypass cap by tacking in another. Nothing changes the
> output. m it is 1V P-P using a Tek scope w/ 100Mhz, 10:1 probe. I do
> have some REAL expensive FET probes but don't think I need them in
> this case.
>
> I cleaned the trimmer cap per the other suggestion. I didn't take it
> apart but 90% IsoPropyl Alcohol works good to remove oxidation on silver.
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> Just for fun, I put in a 12aU7 and it did just what it should--output

> was much stronger. I couldn't get the freq right but it confirmed
> much of what is there is still working.
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> hard enough, how do I go about testing the 5645 crystal? Ever see one
> go soft?
>
> I have tried several different 12AX7's with no change.
>
> Off to double check the can.
>
> Thanks
>
> Curt
>
>

1494. Re: [DrakeRadio] Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-12 14:35:15 UTC
From: Garey Barrell
Topic: 1472 Message: 1494

Curt -

This is a good one! I've looked back over some of your earlier messages, and you have addressed just about everything I would have gone after. I have not seen any reference to C4, have you checked for RF on Pin 1? Should be none. I believe you have checked R2. Does T14 peak?

One off-the-wall problem I have seen before in tube sockets where "contact cleaner" has been liberally sprayed around. Leakage paths form between pins, often presenting as similar voltages on Grid and Cathode (Pin 2 & 3). Close examination will sometimes reveal these paths, (don't forget the top of the socket as well,) but sometimes the stuff actually penetrates the socket material below the surface.

Seems like it's often the simplest circuits that give us the most trouble! My next step would be to haywire the circuit through C5, terminated with a 470 ohm resistor, with all new parts, (point-to-point,) and evaluate the results. You can omit C1 since it is shorted in SSB anyway. Drake used the same circuit in 30,000 or more units, so ... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Just checked out the T14 can, diodes and the crystal.
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> Diodes are each a little over .3V fwd.
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> No shorts or opens in the windings .
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> Used a Grid Dip meter to test the crystal. Same relative activity
> when compared to other similar crystals in the meter.
>
> Not sure where to look next.
>
> Curt
>
>

1495. Re: Another try with the T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 02:30:38 UTC
From: captcurt2000
Topic: 1472 Message: 1495

Hi Garey:

There is something else going on in this one I think.

Never has had any type of solvent on the tube sockets. The tin-plate is still very shiny.

V1 has been in and out many times now and exchanged several times--never a hint of any instability or poor connection there.

I have bypassed pin one with extra cap--no improvement. Still dont have the chart numbers on the grid-cathode voltages. each of the resistors has been lifted one end and checked. Caps have been bridged.

Still getting 1V P-P.

One thing I did find was that the balance pot was 300 ohms instead of 200 on the print. Shouldnt make any difference as I get the same voltage out whether c5 is connected to the wiper or not--and same on both sides of c5 (AC)

I wasnt quite ready to build an off-board oscillator tho...since I could get 4.2-4.4 V P-P using a 12AU7 in place of the 12ax7. I puzzled at why I couldn't get the normal alignment responses as listed in the manual when I tried this the other night. So I did it again.

I finally got a very small increase in plate current in SSB with the carrier unbalanced to do the procedure in the manual. only problem is, when its done, I couldn't then rebalance the carrier.

HERE IS A PART I DONT GET: I basically disable the V3 mixer by pulling the tube. Also turn off the Q3 xtal oscillator and its premixer. Now I can see the RF chain Carrier output at the grid of the V3 mixer using a scope. I can see the alignment of t2 and t3, t14, and the centering result of adjusting c2 trimmer between the two passband filters this way without putting any load on the actual stages being adjusted.

So, I unbalance the carrier with the balance pot to get a signal. I adjust the trimmer to get equal amplitude signals through USB or LSB. I double check this result using a freq counter--it came in at 5644.65 when done visually comparing amplitudes.

Now, the book says to go to USB to peak t2 and t3 --Why is that?? It seems it should make no difference since I just set the carrier between the two filters. Anyway if I PEAK t2 and t3 in USB it reduces the amount coming through in LSB.--This seems weird because the frequency never changed. I can certainly peak them and readjust for

balance, etc, but the balance never comes at the possible peak of t2 for sure. T14 peaks quite broadly in any case.

Best result seems to be to fianlly compromise on the adjustment of t2 and t3 with c2 so everything remains equal between USB and LSB. Doing this leaves alot of signal on the table tho. IS this right?

I can go ahead after this and rebalance the modulator--still using the viewpoint of mixer grid. This setting remains nearly perfect once the other mixer and oscillator or back in operation. Just very little drive in SSB and CW at that point.

I'm expecting a set of new finals soon and these are the only parts not already replaced. It is possible that soft finals are causing the agc to restrict the drive.

Anyway, does any of this make sense? Why the direction to use USB for t2 and t3 tuning?

Thanks

Curt

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> This is a good one! I've looked back over some of your earlier
> messages, and you have addressed just about everything I would have
gone
> after. I have not seen any reference to C4, have you checked for RF on
> Pin 1? Should be none. I believe you have checked R2. Does T14 peak?
>
> One off-the-wall problem I have seen before in tube sockets where
> "contact cleaner" has been liberally sprayed around. Leakage paths
form
> between pins, often presenting as similar voltages on Grid and Cathode
> (Pin 2 & 3). Close examination will sometimes reveal these paths,
> (don't forget the top of the socket as well,) but sometimes the stuff
> actually penetrates the socket material below the surface.
>
> Seems like it's often the simplest circuits that give us the most
> trouble! My next step would be to haywire the circuit through C5,
> terminated with a 470 ohm resistor, with all new parts,
> (point-to-point,) and evaluate the results. You can omit C1 since
it is
> shorted in SSB anyway. Drake used the same circuit in 30,000 or more
> units, so ... :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> captcurt2000 wrote:
> > Just checked out the T14 can, diodes and the crystal.
> >
> > Diodes are each a little over .3V fwd.
> >
> > No shorts or opens in the windings .
> >
> > Used a Grid Dip meter to test the crystal. Same relative activity
> > when compared to other similar crystals in the meter.
> >
> > Not sure where to look next.
> >
> > Curt
> >
> >
>

1496. Re: Passband tuner question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 15:24:42 UTC
From: bosonob2000
Topic: 1484 Message: 1496

I aligned the tuner according to the manual and indeed it was off a
little. Now it is very symmetric and the levels are way more even.
There still is a little roll off in the high frequency but not as much
as before. I definitely recommend looking at the passband with an
audio spectrum analyzer to confirm its aligned etc. Besides, it was fun!

73's
Stefan

--- In DrakeRadio@yahoogroups.com, "bosonob2000" <saschu2@...> wrote:
>
> Recently I put the audio out of my R4B through my computer to a
> spectrum analyzer to look at the passband. I noticed that the passband
> for LSB was not symmetric having a gentle slope toward the high freq.
> I compared this to the USB passband which is more symmetric and is
> noticeably higher in signal strength. The LSB is about 60% of the USB
> strength.
>
> The center of each bandwidth line is the signal peak of a zerobeated
> CAL signal. The pitch of the dots is about right each side for each
> bandwidth. However the horizontally left side pitch is not the same as
> the horizontally right. I know the manual says it should be as part of
> the alignment. Tuning all the way One side of the passband moves it
> out much farther than the other. The pitch though for each dot range
> is about right. I also figure that the panel markings are
> approximate.I would figure the
> tuner should have equal signal strength/shape for the LSB/USB
> passbands etc.
>
> Before I attempt the manual alignment, is there any other tests or is
> there a better alihnment procedure? How do you guys align your
passbands?
>
>
> 73's
> Stefan
> KF4UEO
>

1497. Re: A Better Description

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 17:28:47 UTC
From: captcurt2000
Topic: 1472 Message: 1497

Hi Again:

Realized the above was kind of convoluted so thought I would describe what I am observing a little better. Pretty much does the same thing whether I have 1V or 4 V oat the balance pot wiper.

When setting c2 trimmer and adjusting t3--

I can adjust c2, t2, and t3 all for maximum equal signal on USB/LSB but this signal is well below the maximum peak available from t3. If I switch over to LSB, the signal drops to nominal zero--I can readjust t3 to get a very large signal.

Of course that is no longer equal between USB/LSB.

By bringing t3 off the center frequency, in line with either USB or USB I can get alot more output. I assume I need to retain the equal levels between upper and lower at the t3 adjustment?

1498. Re: [DrakeRadio] Re: A Better Description

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 17:59:22 UTC
From: Garey Barrell
Topic: 1472 Message: 1498

I think I understand what you are saying.

Keep in mind that the two filters are arranged in the letter "M". The correct setting for the Carrier Oscillator is in the "trough" in the center of the "M". This trough is not infinite, so when you are adjusting for equal level in the two filters, what you are doing is centering the oscillator in the "bottom" of the "M". This trough is part of the carrier suppression, and so should be adjusted for minimum signal is both filters.

Remember, the object is to have _MINIMUM_ carrier out for normal operation. When you switch to CW/AM, C1 is unshorted, shifting the carrier by about 900 Hz and putting it INSIDE the filter passband where it is passed through to become a CW or AM carrier signal.

You will only have 4 V p-p in CW/AM.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Hi Again:
>
> Realized the above was kind of convoluted so thought I would describe
> what I am observing a little better. Pretty much does the same thing
> whether I have 1V or 4 V oat the balance pot wiper.
>
> When setting c2 trimmer and adjusting t3--
>
> I can adjust c2, t2, and t3 all for maximum equal signal on USB/LSB
> but this signal is well below the maximum peak available from t3. If
> I switch over to LSB, the signal drops to nominal zero--I can readjust
> t3 to get a very large signal.
>
> Of course that is no longer equal between USB/LSB.
>
> By bringing t3 off the center frequency, in line with either USB or
> USB I can get alot more output. I assume I need to retain the equal
> levels between upper and lower at the t3 adjustment?
>
>

1499. Re: A Better Description

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 20:00:31 UTC
From: captcurt2000
Topic: 1472 Message: 1499

Hi Garey:

Yes I guess I got it all..the "M" is a good description of the filter result.

The 4V P-P you refer to only in CW and AM, at the wiper of the balance pot, the frequency shift shouldn't make any difference in the output level should it?

It changes output level after the balanced mod if the dc unbalance voltage is there and the signal is shifted into the passband of the LSB filter?

I have it aligned and it seems to be working after a fashion. I have almost 50V P-P of drive at the grids of the finals in full TUNE.

I can watch the peaks there on a scope when in SSB and they are getting right up there also--although they seem to show almost no noticable PA current peaks--nowhere near the .15 level. just barely moving above the bias level.

I have one of the Heathshop PS kits coming in for this rig and a new pair of finals so will wait to see what the result of all this is.

Curt.

Thanks

Curt

1500. Re: [DrakeRadio] Re: A Better Description

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 21:15:43 UTC
From: Garey Barrell
Topic: 1472 Message: 1500

Curt -

Right. The 4V p-p should be at the wiper of the pot regardless of the frequency shift. There should be very little, if any signal visible after the filters IF the Carrier Oscillator is centered and the Balanced Modulator is nulled properly when in SSB. The unbalance current from the GAIN pot should increase the carrier OUTPUT from the BM, and the shift should move it to within the passband of the LSB filter.

The scope will load the grids of the finals, so difficult to actually quantify it. Do the finals neutralize? You should get full output in TUNE mode with the GAIN control set to about 10 - 11 o'clock. The final plate voltage should be about 700 VDC no load, and 650 VDC at full load (350 mA), and the screen should be about 260 VDC. Have you verified the value of the cathode resistors in the final? They should be 15 ohms, +/- 5%, and certainly within 5% of each other. Same situation with the screen resistors, should be 68 ohms +/- 5%. One other potential problem is the meter shunt resistor. These also change value with time and/or overload, although they typically go high, causing the plate meter to read higher than actual plate current.

73, Garey - K4OAH
Glen Allen, VA

captcurt2000 wrote:
> Hi Garey:
>
> Yes I guess I got it all..the "M" is a good description of the filter
> result.
>
> The 4V P-P you refer to only in CW and AM, at the wiper of the
> balance pot, the frequency shift shouldn't make any difference in the
> output level should it?
>
> It changes output level after the balanced mod if the dc unbalance
> voltage is there and the signal is shifted into the passband of the
> LSB filter?
>
> I have it aligned and it seems to be working after a fashion. I have
> almost 50V P-P of drive at the grids of the finals in full TUNE.
>
> I can watch the peaks there on a scope when in SSB and they are
> getting right up there also--although they seem to show almost no
> noticable PA current peaks--nowhere near the .15 level. just barely
> moving above the bias level.
>

> I have one of the Heathshop PS kits coming in for this rig and a new
> pair of finals so will wait to see what the result of all this is.
>
> Curt.
>
> Thanks
>
> Curt
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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> --
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008 9:12 AM
>
>

1501. R4C AGC "Extra Knob"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 21:41:00 UTC
From: Roger
Topic: 1501 Message: 1501

I just acquired a R4C (s/n 23476) that has what looks like an extra knob on the AGC main shaft. The normal AGC knob (OFF/F/M/S plus 2 more positions moving CW) is there plus a center knob on the AGC shaft that has 5 positions also. What do I have?

This is my first R4C since the mid 70's, so I am anxious to learn what this one has (if anything) over my older R4C, since long gone.

Roger W5RDW
Murphy, Texas

1502. Re: R4C AGC "Extra Knob"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 22:08:39 UTC
From: w5rkl
Topic: 1501 Message: 1502

Hello Roger,

Sounds like a Sherwood modification.

http://www.sherweng.com/ham.html

If the R4C works very good and you didn't pay much for it then I'd say
you got a very good deal.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Roger" <rwhitetexas@...> wrote:
>
> I just acquired a R4C (s/n 23476) that has what looks like an extra
> knob on the AGC main shaft. The normal AGC knob (OFF/F/M/S plus 2 more
> positions moving CW) is there plus a center knob on the AGC shaft
> that has 5 positions also. What do I have?
>
> This is my first R4C since the mid 70's, so I am anxious to learn what
> this one has (if anything) over my older R4C, since long gone.
>
> Roger W5RDW
> Murphy, Texas
>

1503. Re: [DrakeRadio] Re: R4C AGC "Extra Knob"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-13 22:23:53 UTC
From: res1q6fs
Topic: 1501 Message: 1503

Since the post, I decided to take off the covers and I can see it has the Noise Blanker pwb and at least one Sherwood mod on the left hand top side, looks like a pwb assy with a couple of long, silver looking enclosures and some input/output little devices (maybe switches to switch in and out the filters?). It says, "Sherwood SSB" on the pwb.

Very interesting. I am trying to follow the wires from the extra gang on the switch but it is so crowded. It does sound like it has pretty good selectivity. This is the first time I have been exposed to the Sherwood mods in a R4C. I had one many years ago with no mods and I thought it was a great receiver then.

Thanks!

Roger W5RDW
----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 13, 2008 4:08 PM
Subject: [DrakeRadio] Re: R4C AGC "Extra Knob"

Hello Roger,

Sounds like a Sherwood modification.

http://www.sherweng.com/ham.html

If the R4C works very good and you didn't pay much for it then I'd say
you got a very good deal.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Roger" <rwhitetexas@...> wrote:
>
> I just acquired a R4C (s/n 23476) that has what looks like an extra
> knob on the AGC main shaft. The normal AGC knob (OFF/F/M/S plus 2 more
> positions moving CW) is there plus a center knob on the AGC shaft
> that has 5 positions also. What do I have?
>
> This is my first R4C since the mid 70's, so I am anxious to learn what
> this one has (if anything) over my older R4C, since long gone.
>
> Roger W5RDW
> Murphy, Texas
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.1/1781 - Release Date: 11/11/2008 8:59 AM

[Non-text portions of this message have been removed]

1504. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-14 14:45:32 UTC
From: Garey Barrell
Topic: 993 Message: 1504

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

1505. DL 300 Dummy Load

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-14 20:40:31 UTC
From: Fernando Quinones
Topic: 1505 Message: 1505

Hello.

Just picked up this dummy load and was wondering if anyone

has submerge this dummy load

into a can of mineral oil?

Something like the Cantenna.

Any reason that I should be looking at for?

tnx 73

Fernando N2FQ
<http://pages.sbcglobal.net/n2fq>

1506. TR$ PTO ball bearing size

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 14:11:01 UTC
From: rrkrr
Topic: 1505 Message: 1506

I'm looking for the size of the ball bearings in the TR4 PTO. I've acquired one that has lost them all, and I'd like to avoid disassembling another just to get the size.

Bob
K4ERR

1507. Re: [DrakeRadio] TR$ PTO ball bearing size

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 16:00:44 UTC
From: Garey Barrell
Topic: 1505 Message: 1507

Bob -

They are 1/8" dia (0.125"). There are ten (10) plus one (1) more at the rear end of the shaft.

Ace or True Value Hardware stores usually have them in the little (yellow?) plastic drawers of odd hardware.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

rrkrr wrote:
> I'm looking for the size of the ball bearings in the TR4 PTO. I've
> acquired one that has lost them all, and I'd like to avoid
> disassembling another just to get the size.
>
> Bob
> K4ERR
>

1508. Re: [DrakeRadio] TR$ PTO ball bearing size

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 16:10:59 UTC
From: rrkrr
Topic: 1505 Message: 1508

Thanks very much!

Bob

Garey Barrell wrote:
>
> Bob -
>
> They are 1/8" dia (0.125"). There are ten (10) plus one (1) more at the
> rear end of the shaft.
>
> Ace or True Value Hardware stores usually have them in the little
> (yellow?) plastic drawers of odd hardware.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> rrkrr wrote:
> > I'm looking for the size of the ball bearings in the TR4 PTO. I've
> > acquired one that has lost them all, and I'd like to avoid
> > disassembling another just to get the size.
> >
> > Bob
> > K4ERR
> >
>
>

1509. Re: [DrakeRadio] TR$ PTO ball bearing size

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 16:25:52 UTC
From: Jose V. Gavila
Topic: 1505 Message: 1509

Hello Garey,

As you know, I fixed a TR-4C PTO some weeks ago :-)... but one comment has made me think:

>They are 1/8" dia (0.125"). There are ten (10) plus one (1) more at the
>rear end of the shaft.

Where is located the 11th ball???. I don't recall there was a place for it... perhaps I completely missed it.

A picture would be worth a lot!

Regards,

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1510. TR-7 T/R Thump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 17:48:20 UTC
From: Al Scanandoah
Topic: 1510 Message: 1510

Has anyone ever explored eliminating or at least significant reducing
the audio thump that occurs in CW when the rig goes back into RX?

For me, it's horrific with headphones on.

73 - Al, K2ZN

1511. Re: [DrakeRadio] TR$ PTO ball bearing size

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-15 18:24:03 UTC
From: Garey Barrell
Topic: 1505 Message: 1511

Jose -

Well, it's been quite a few years since I had to re-do a PTO. I may be confusing it with the Collins PTO, which has a glass ball at the rear bearing.

I'm picturing a "dish" in the rear end of the lead screw, a "cup" style set-screw, and a bearing ball between. I vaguely recall having to use grease to hold the ball in place for assembly. If you didn't completely remove the lead screw, then the grease may have just held it in place? Possible?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hello Garey,
>
> As you know, I fixed a TR-4C PTO some weeks ago :-)... but one comment has
> made me think:
>
>
>> They are 1/8" dia (0.125"). There are ten (10) plus one (1) more at the
>> rear end of the shaft.
>>
>
> Where is located the 11th ball???. I don't recall there was a place for
> it... perhaps I completely missed it.
>
> A picture would be worth a lot!
>
> Regards,
>
> JOSE
> ---
> 73 EB5AGV - JOSE V. GAVILA
> IM99sm La Canyada - Valencia (SPAIN)
>
> Vintage Radio and Test Equipment
> http://jvgavila.com
> RadioRepair BLOG
> http://radiorepair.blogspot.com/
> European Boatanchors List

> http://groups.yahoo.com/group/euro_ba_swap
> Amateur Repairs List
> http://groups.yahoo.com/group/amateur-repairs
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
> --
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.4/1790 - Release Date: 11/15/2008 9:32 AM
>
>

1512. Re: TR-7 T/R Thump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-17 04:32:52 UTC
From: Floyd Sense
Topic: 1510 Message: 1512

--- In DrakeRadio@yahoogroups.com, Al Scanandoah <k2zn@...> wrote:
>
> Has anyone ever explored eliminating or at least significant reducing
> the audio thump that occurs in CW when the rig goes back into RX?
>
> For me, it's horrific with headphones on.
>
> 73 - Al, K2ZN
>

I don't get any thump in either of my TR7s and I run them primarily on CW. Is it the same with fast or slow AGC?

1513. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-17 07:06:48 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1513

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1514. Re: TR-7 T/R Thump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-17 16:33:51 UTC
From: jch39_99
Topic: 1510 Message: 1514

I have a bit of a thump on going back to RX. No difference tween fast
and slow AGC. My Omni C from yrs ago had a similar problem and there
was a simple mod for that ... don't remember now what it was and no
idea whether it would apply to the TR-7. It did mess up the S-meter
reading though.

73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "Floyd Sense" <floyd@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, Al Scanandoah <k2zn@> wrote:
> >
> > Has anyone ever explored eliminating or at least significant reducing
> > the audio thump that occurs in CW when the rig goes back into RX?
> >
> > For me, it's horrific with headphones on.
> >
> > 73 - Al, K2ZN
> >
>
> I don't get any thump in either of my TR7s and I run them primarily on
> CW. Is it the same with fast or slow AGC?
>

1515. Re: TR-7 T/R Thump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-17 17:19:01 UTC
From: Al Scanandoah
Topic: 1510 Message: 1515

AGC setting doesn't matter. Since my posting, I found a reference to some of the earlier IF/Audio boards missing R1187, which caused some audio problems.

If I get a chance this evening, I'll pop the cover and take a look.

Al

--- In DrakeRadio@yahoogroups.com, "Floyd Sense" <floyd@...> wrote:

>
> I don't get any thump in either of my TR7s and I run them primarily on
> CW. Is it the same with fast or slow AGC?
>

1516. Re: TR-7 T/R Thump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-17 20:46:44 UTC
From: jch39_99
Topic: 1510 Message: 1516

Al, be sure to let us know what you find.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "Al Scanandoah" <k2zn@...> wrote:
>
> AGC setting doesn't matter. Since my posting, I found a reference to
> some of the earlier IF/Audio boards missing R1187, which caused some
> audio problems.
>
> If I get a chance this evening, I'll pop the cover and take a look.
>
> Al
>

1517. Plastic side piece for SP75 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-20 15:31:10 UTC
From: Floyd Sense
Topic: 1517 Message: 1517

I have a spare black plastic piece for the right side of the SP75 Speech Processor front panel. If yours is cracked, you can have this one for $5 shipped to you. Email me: k8ac@...

1518. Front panel for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-20 16:00:20 UTC
From: captcurt2000
Topic: 1518 Message: 1518

Good Morning:

Does anyone have a front panel they want to part with for a MS-4 speaker?

Can be rusty or banged up OK.

Or perhaps a source for matching perferorated material?

Thanks

Curt
KU8L

1519. TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-20 16:24:32 UTC
From: jch39_99
Topic: 1519 Message: 1519

I was reading on the "Drake Mailing List" about the effectiveness of the fan on the TR-7.

I am wondering if it might solve a couple of my "issues".

1. My TR-7 continues to drift even after a 30 min warm up period (sometimes worse than others).
2. I run my TR-7 at 50 watts output. The power fluctuates i.e. to say I have to occasionally adjust it if I want to stay at 50 watts.

I assume the fan would help problem #1. How about problem #2?

73/Crit/K4BXN

1520. Re: [DrakeRadio] Front panel for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-20 16:26:26 UTC
From: DALE PARFITT
Topic: 1518 Message: 1520

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 20, 2008 11:00 AM
Subject: [DrakeRadio] Front panel for MS-4?

Good Morning:

Does anyone have a front panel they want to part with for a MS-4 speaker?

Can be rusty or banged up OK.

Or perhaps a source for matching perferorated material?

Thanks

Curt
KU8L

Hi Kurt,
I have a spare 12 X 12 sheet in aluminum- exact same holes and stagger as
the MS-4 front. Also a virtually like new logo.
E-Mail me directly, if interested.

Dale W4OP

1521. Re: [DrakeRadio] Front panel for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 01:39:07 UTC
From: K4GM-George
Topic: 1518 Message: 1521

I may be able to help but need to check "inventory" first. If you don't hear from me in a week email me if you still need the front panel. I think I have a slightly dented MS-4 cabinet w/o a speaker inside.

George K4GM

captcurt2000 wrote:
>
> Good Morning:
>
> Does anyone have a front panel they want to part with for a MS-4 speaker?
>
> Can be rusty or banged up OK.
>
> Or perhaps a source for matching perferorated material?
>
> Thanks
>
> Curt
> KU8L
>
>

1522. DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 11:18:19 UTC
From: ranges_2001
Topic: 1522 Message: 1522

Hello
I just received a DD-103 Universal Digital Dial from Electronic Specialty Products. Does anyone have experience connecting one of these to a C-Line.

Thanks, Randy Pence
N4JZY

1523. Re: [DrakeRadio] DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 13:35:38 UTC
From: DALE PARFITT
Topic: 1522 Message: 1523

----- Original Message -----
From: ranges_2001
To: DrakeRadio@yahoogroups.com
Sent: Friday, November 21, 2008 6:18 AM
Subject: [DrakeRadio] DD-103 Universal Digital Dial

Hello
I just received a DD-103 Universal Digital Dial from Electronic
Specialty Products. Does anyone have experience connecting one of
these to a C-Line.

Thanks, Randy Pence
N4JZY

Hi Randy,
I have had one on my TR-4CW/RIT for a couple of months now. I believe it to be the best unit out there. Mine came programmed for the TR-4. I have done the band by band offsets to accommodate any shifts in the band crystals. The fact that it reads to 10Hz makes it possible to stay on freq in an SSB QSO w/o incurring complaints from the modern rig users. The other units that only go to 100Hz just cannot do this.
I had to modify the connector to the RV-4 socket in the rig so that the cable exits the side of the
Jones plug as opposed to the "top" as I don't use riser feet on my Drake.
Finally, the custom Drake blue color is the icing on the cake.

Dale W4OP

1524. Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 14:25:14 UTC
From: ranges_2001
Topic: 1522 Message: 1524

Thanks Dale

The person who sells the DD-103 has never hooked one up to a C-Line. He thought I should make connections to cathode of the pre-mixer V6. I was wandering if anyone else had connected the DD-103 with this method.

Randy N4JZY

--- In DrakeRadio@yahoogroups.com, "DALE PARFITT" <parinc1@...> wrote:
>
>
> ----- Original Message -----
> From: ranges_2001
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, November 21, 2008 6:18 AM
> Subject: [DrakeRadio] DD-103 Universal Digital Dial
>
>
> Hello
> I just received a DD-103 Universal Digital Dial from Electronic
> Specialty Products. Does anyone have experience connecting one of
> these to a C-Line.
>
> Thanks, Randy Pence
> N4JZY
>
> Hi Randy,
> I have had one on my TR-4CW/RIT for a couple of months now. I believe
it to
> be the best unit out there. Mine came programmed for the TR-4. I have
done
> the band by band offsets to accommodate any shifts in the band
crystals. The
> fact that it reads to 10Hz makes it possible to stay on freq in an SSB
QSO
> w/o incurring complaints from the modern rig users. The other units
that
> only go to 100Hz just cannot do this.
> I had to modify the connector to the RV-4 socket in the rig so that
the
> cable exits the side of the
> Jones plug as opposed to the "top" as I don't use riser feet on my
Drake.
> Finally, the custom Drake blue color is the icing on the cake.
>
> Dale W4OP

>

1525. RE: [DrakeRadio] Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 15:00:06 UTC
From: James Chaggaris
Topic: 1522 Message: 1525

Randy,

I have the DD-103 hooked to my R4B but I had it installed by Jeff Covelli (WA8SAJ) a couple of years ago when he did an alignment on my B-Line.

I could take a look tonight to see how he did it or you can just contact Jeff direct.

(wa8saj@...)

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ranges_2001
Sent: Friday, November 21, 2008 8:25 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: DD-103 Universal Digital Dial

Thanks Dale

The person who sells the DD-103 has never hooked one up to a C-Line. He thought I should make connections to cathode of the pre-mixer V6. I was wandering if anyone else had connected the DD-103 with this method.

Randy N4JZY

--- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com,
"DALE PARFITT" <parinc1@...> wrote:
>
>
> ----- Original Message -----
> From: ranges_2001
> To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> Sent: Friday, November 21, 2008 6:18 AM
> Subject: [DrakeRadio] DD-103 Universal Digital Dial
>
>
> Hello
> I just received a DD-103 Universal Digital Dial from Electronic
> Specialty Products. Does anyone have experience connecting one of
> these to a C-Line.
>
> Thanks, Randy Pence
> N4JZY
>
> Hi Randy,
> I have had one on my TR-4CW/RIT for a couple of months now. I believe
it to
> be the best unit out there. Mine came programmed for the TR-4. I have
done
> the band by band offsets to accommodate any shifts in the band
crystals. The
> fact that it reads to 10Hz makes it possible to stay on freq in an SSB
QSO
> w/o incurring complaints from the modern rig users. The other units
that
> only go to 100Hz just cannot do this.
> I had to modify the connector to the RV-4 socket in the rig so that
the
> cable exits the side of the
> Jones plug as opposed to the "top" as I don't use riser feet on my
Drake.
> Finally, the custom Drake blue color is the icing on the cake.
>
> Dale W4OP
>

[Non-text portions of this message have been removed]

1526. Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 15:34:37 UTC
From: ranges_2001
Topic: 1522 Message: 1526

--- In DrakeRadio@yahoogroups.com, "James Chaggaris" <jimc@...> wrote:
Thanks Jim

I will call Jeff and see if he can be of help. I purchased the C-Line
from the original owner and do not believe much has been don to the
equipment sense new. I may just send everything to Jeff and have it
all checked out.

Randy, N4JZY

>
> Randy,
>
> I have the DD-103 hooked to my R4B but I had it installed by Jeff
Covelli
> (WA8SAJ) a couple of years ago when he did an alignment on my B-Line.
>
> I could take a look tonight to see how he did it or you can just contact
> Jeff direct.
>
> (wa8saj@...)
>
>
> 73,
>
> Jim N9WW
>
>
> James E. Chaggaris
> President
> PowerOne Corp.
> 1020 Cedar Ave.
> Suite 203
> St. Charles, IL 60174
> Phn:(630) 443-6500
> Fax:(630) 443-6505
> Cell:(630) 669-2241
> Web: www.pwrone.com
>
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>
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of ranges_2001
> Sent: Friday, November 21, 2008 8:25 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Re: DD-103 Universal Digital Dial
>
>
>
> Thanks Dale
>
> The person who sells the DD-103 has never hooked one up to a C-Line. He
> thought I should make connections to cathode of the pre-mixer V6. I was
> wandering if anyone else had connected the DD-103 with this method.
>
> Randy N4JZY
>
> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com>
ups.com,
> "DALE PARFITT" <parinc1@> wrote:
> >
> >
> > ----- Original Message -----
> > From: ranges_2001
> > To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> > Sent: Friday, November 21, 2008 6:18 AM
> > Subject: [DrakeRadio] DD-103 Universal Digital Dial
> > >
> > >
> > Hello
> > I just received a DD-103 Universal Digital Dial from Electronic
> > Specialty Products. Does anyone have experience connecting one of
> > these to a C-Line.
> > >
> > Thanks, Randy Pence
> > N4JZY
> > >
> > Hi Randy,

> > I have had one on my TR-4CW/RIT for a couple of months now. I believe
> it to
> > be the best unit out there. Mine came programmed for the TR-4. I have
> done
> > the band by band offsets to accommodate any shifts in the band
> crystals. The
> > fact that it reads to 10Hz makes it possible to stay on freq in an SSB
> QSO
> > w/o incurring complaints from the modern rig users. The other units
> that
> > only go to 100Hz just cannot do this.
> > I had to modify the connector to the RV-4 socket in the rig so that
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> > cable exits the side of the
> > Jones plug as opposed to the "top" as I don't use riser feet on my
> Drake.
> > Finally, the custom Drake blue color is the icing on the cake.
> >
> > Dale W4OP
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

1527. RE: [DrakeRadio] Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 15:46:22 UTC
From: James Chaggaris
Topic: 1522 Message: 1527

Randy,

No problem. Jeff is a good guy and does great work. He's worked on all my Drake gear and his rates are very reasonable. It's probably a good idea to have the C-Line checked out. I bought a mint TR7A from a guy who used it for about 5 hours then put it in storage for 20+years. Just to make sure, I sent it to Jeff for a thorough check up and he had do a complete alignment which also brought the receive up an additional 15db.

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ranges_2001
Sent: Friday, November 21, 2008 9:35 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: DD-103 Universal Digital Dial

--- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com, "James Chaggaris" <jimc@...> wrote:
Thanks Jim

I will call Jeff and see if he can be of help. I purchased the C-Line from the original owner and do not believe much has been don to the equipment sense new. I may just send everything to Jeff and have it

all checked out.

Randy, N4JZY

>
> Randy,
>
> I have the DD-103 hooked to my R4B but I had it installed by Jeff
Covelli
> (WA8SAJ) a couple of years ago when he did an alignment on my B-Line.
>
> I could take a look tonight to see how he did it or you can just contact
> Jeff direct.
>
> (wa8saj@...)
>
>
> 73,
>
> Jim N9WW
>
>
> James E. Chaggaris
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delete the
> original and any copy of this e-mail and any printout.
>
>
>
>

> _____
>
> From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
> Behalf Of ranges_2001
> Sent: Friday, November 21, 2008 8:25 AM
> To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> Subject: [DrakeRadio] Re: DD-103 Universal Digital Dial
>
>
>
> Thanks Dale
>
> The person who sells the DD-103 has never hooked one up to a C-Line. He
> thought I should make connections to cathode of the pre-mixer V6. I was
> wandering if anyone else had connected the DD-103 with this method.
>
> Randy N4JZY
>
> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com>
ups.com,
> "DALE PARFITT" <parinc1@> wrote:
> >
> >
> > ----- Original Message -----
> > From: ranges_2001
> > To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
> > Sent: Friday, November 21, 2008 6:18 AM
> > Subject: [DrakeRadio] DD-103 Universal Digital Dial
> > >
> > >
> > Hello
> > I just received a DD-103 Universal Digital Dial from Electronic
> > Specialty Products. Does anyone have experience connecting one of
> > these to a C-Line.
> > >
> > Thanks, Randy Pence
> > N4JZY
> > >
> > Hi Randy,
> > I have had one on my TR-4CW/RIT for a couple of months now. I believe
> it to
> > be the best unit out there. Mine came programmed for the TR-4. I have
> done
> > the band by band offsets to accommodate any shifts in the band
> crystals. The
> > fact that it reads to 10Hz makes it possible to stay on freq in an SSB
> QSO
> > w/o incurring complaints from the modern rig users. The other units

> that
> > only go to 100Hz just cannot do this.
> > I had to modify the connector to the RV-4 socket in the rig so that
> the
> > cable exits the side of the
> > Jones plug as opposed to the "top" as I don't use riser feet on my
> Drake.
> > Finally, the custom Drake blue color is the icing on the cake.
> >
> > Dale W4OP
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1528. Re: [DrakeRadio] Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 15:53:03 UTC
From: Garey Barrell
Topic: 1522 Message: 1528

Randy -

The DD-103 appears to count only the PTO signal, with the Band
Oscillator and Carrier Oscillator frequencies "programmed" in for offset.

The cathode of V6, (Pin 1 or 3,) of the PreMixer stage would be the
easiest place to pick up the PTO signal.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

----- Original Message -----
> From: ranges_2001
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, November 21, 2008 6:18 AM
> Subject: [DrakeRadio] DD-103 Universal Digital Dial
>
>
> Hello
> I just received a DD-103 Universal Digital Dial from Electronic
> Specialty Products. Does anyone have experience connecting one of
> these to a C-Line.
>
> Thanks, Randy Pence
> N4JZY

1529. Re: DD-103 Universal Digital Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 16:08:28 UTC
From: ranges_2001
Topic: 1522 Message: 1529

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:

Thanks Garey

I will give it a try.

Randy N4JZY

>
> Randy -
>
> The DD-103 appears to count only the PTO signal, with the Band
> Oscillator and Carrier Oscillator frequencies "programmed" in for
offset.
>
> The cathode of V6, (Pin 1 or 3,) of the PreMixer stage would be the
> easiest place to pick up the PTO signal.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> ----- Original Message -----
> > From: ranges_2001
> > To: DrakeRadio@yahoogroups.com
> > Sent: Friday, November 21, 2008 6:18 AM
> > Subject: [DrakeRadio] DD-103 Universal Digital Dial
> > >
> > >
> > Hello
> > I just received a DD-103 Universal Digital Dial from Electronic
> > Specialty Products. Does anyone have experience connecting one of
> > these to a C-Line.
> > >
> > Thanks, Randy Pence
> > N4JZY
>

1530. Re: [DrakeRadio] TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 16:49:16 UTC
From: g4jss@tiscali.co.uk
Topic: 1519 Message: 1530

Hi Crit

Unless I've missed it I haven't seen a reply to your query yet but I'm certainly interested.

I also run a TR7 but have never had a problem with drift etc after the initiall warm up. Although mine is fitted with a fan (115 vac) I can't use it as I don't have a PS7 and run on a standard DC 30amp PSU - so no 115vac supply to fan.

I could fit a 12v fan but as the rig stays cool and no appreciable drift I haven't bothered. I generally run the rig at 100w.

Bottom line is that I'm not sure that a fan is the answer to your problems but I will wait and see if there is any input to your query and learn from that.

Take care

Vic - G4JSS

----Original Message----
From: jcharley@...
Date: 20/11/2008 16:24
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] TR-7 and Fan

I was reading on the "Drake Mailing List" about the effectiveness of
the fan on the TR-7.

I am wondering if it might solve a couple of my "issues".

1. My TR-7 continues to drift even after a 30 min warm up period
(sometimes worse than others).
2. I run my TR-7 at 50 watts output. The power fluctuates i.e. to say
I have to occasionally adjust it if I want to stay at 50 watts.

I assume the fan would help problem #1. How about problem #2?

73/Crit/K4BXN

_____
Do you value your identity? - http://www.tiscali.co.uk/security
_____

[Non-text portions of this message have been removed]

1531. Re: [DrakeRadio] TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 17:14:00 UTC
From: Garey Barrell
Topic: 1519 Message: 1531

Crit -

HOW does it continue to drift? Always in the same direction?
Wandering up and down? Smooth or "jumpy"?

WHY do you run it at 50W? Saving electricity? Saving the PA?
Personal preference?

As Jim reported, the fan, when properly installed, does a good job of keeping the internal temperature constant over time. The PTO area is slightly elevated, but stable. Temperature _changes_ are the enemy of stability.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

> ----Original Message----
> From: jcharley@...
>
> I was reading on the "Drake Mailing List" about the effectiveness of
> the fan on the TR-7.
>
> I am wondering if it might solve a couple of my "issues".
>
> 1. My TR-7 continues to drift even after a 30 min warm up period
> (sometimes worse than others).
> 2. I run my TR-7 at 50 watts output. The power fluctuates i.e. to say
> I have to occasionally adjust it if I want to stay at 50 watts.
>
> I assume the fan would help problem #1. How about problem #2?
>
> 73/Crit/K4BXN
>

1532. Re: TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 17:32:57 UTC
From: jch39_99
Topic: 1519 Message: 1532

Good Afternoon Garey;

I run 50 watts ... left over habit of having a rig (Ten Tec Argosy II) which I liked but there were no final transistor replacements any longer. So, guess you would say saving the PA. Although in my early days I ran low power to avoid nasty phone calls from my neighbors. Never found a reason to push the limits.

The frequency shift seems to be some what up and down, never in large amounts.

I have the TR-7 sitting atop of the PS-7. Can feel a fair amount of heat from the vents on top of the rig.

73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> HOW does it continue to drift? Always in the same direction?
> Wandering up and down? Smooth or "jumpy"?
>
> WHY do you run it at 50W? Saving electricity? Saving the PA?
> Personal preference?
>
> As Jim reported, the fan, when properly installed, does a good job of
> keeping the internal temperature constant over time. The PTO area is
> slightly elevated, but stable. Temperature _changes_ are the
enemy of
> stability.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
>
> > ----Original Message----
> > From: jcharley@...
> >
> > I was reading on the "Drake Mailing List" about the effectiveness of
> > the fan on the TR-7.

> >
> > I am wondering if it might solve a couple of my "issues".
> >
> > 1. My TR-7 continues to drift even after a 30 min warm up period
> > (sometimes worse than others).
> > 2. I run my TR-7 at 50 watts output. The power fluctuates i.e. to say
> > I have to occasionally adjust it if I want to stay at 50 watts.
> >
> > I assume the fan would help problem #1. How about problem #2?
> >
> > 73/Crit/K4BXN
> >
>

1533. TR7 Power Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 17:44:18 UTC
From: James Chaggaris
Topic: 1533 Message: 1533

Here's a new one that maybe someone can help me with. Since my TR7A puts out 120-130W on 40, I always turn down the drive level to about 70W when running my L7 amp. Recently, I noticed that when I turn the ouput down to 70W and leave the rig keyed for a few seconds, the output starts to creep up from 70W to 73W then 78W etc...on up to 80+ watts. I haven't kept it keyed down for a long time to see if it creeps up any more than 80W but it's got me puzzled.

Also, when I'm running the full ouput(130W), the ouput remains stable..

Any thoughts?

73,

Jim N9WW

James E. Chaggaris
President
PowerOne Corp.
1020 Cedar Ave.
Suite 203
St. Charles, IL 60174
Phn:(630) 443-6500
Fax:(630) 443-6505
Cell:(630) 669-2241
Web: www.pwrone.com

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1534. Re: [DrakeRadio] Re: TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 17:50:50 UTC
From: Garey Barrell
Topic: 1519 Message: 1534

Crit -

OK. Well the PA of the TR-7 is very conservatively rated, and will run full power (120 -130W output) "forever". Some just have to turn the output ALC up to 140 - 150W or even up to almost 200W. It WILL run that much power, but there is no room for error such as antenna problems, overheating, etc. So reducing power below 120W or so really doesn't protect anything but the electric bill! :-) I don't know if the transmit ALC control will set that low or not, but that would be the way to do it if you just don't want to run more than 50W.

Putting the TR-7 on top of the PS-7 is not a particularly good idea. Again, temperature variations are the enemy of stability. When you transmit, the PA heats up, and the power supply heats up. When you go back to receive, they both cool down. Having the TR-7 on top lets that heat variation from the power supply rise up to the TR-7.

I would try sitting the PS-7 on the floor, or even on top of the TR-7 to see if that helps.

Aside from that, I have found cases where the analog switch IC U1, on the Parent board, gets noisy. This "noise" is applied to the PTO's RIT pin and can cause random small frequency changes. The effect can appear even with the RIT Off. A sensitive scope on the RIT pin (on the side of the PTO) can show this voltage.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> Good Afternoon Garey;
>
> I run 50 watts ... left over habit of having a rig (Ten Tec Argosy II)
> which I liked but there were no final transistor replacements any
> longer. So, guess you would say saving the PA. Although in my early
> days I ran low power to avoid nasty phone calls from my neighbors.
> Never found a reason to push the limits.
>
> The frequency shift seems to be some what up and down, never in large
> amounts.
>
> I have the TR-7 sitting atop of the PS-7. Can feel a fair amount of
> heat from the vents on top of the rig.
>

> 73/Crit/K4BXN
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Crit -
>>
>> HOW does it continue to drift? Always in the same direction?
>> Wandering up and down? Smooth or "jumpy"?
>>
>> WHY do you run it at 50W? Saving electricity? Saving the PA?
>> Personal preference?
>>
>> As Jim reported, the fan, when properly installed, does a good job of
>> keeping the internal temperature constant over time. The PTO area is
>> slightly elevated, but stable. Temperature _changes_ are the
>>
> enemy of
>
>> stability.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>>
>>
>>> ----Original Message----
>>> From: jcharley@...
>>>
>>> I was reading on the "Drake Mailing List" about the effectiveness of
>>> the fan on the TR-7.
>>>
>>> I am wondering if it might solve a couple of my "issues".
>>>
>>> 1. My TR-7 continues to drift even after a 30 min warm up period
>>> (sometimes worse than others).
>>> 2. I run my TR-7 at 50 watts output. The power fluctuates i.e. to say
>>> I have to occasionally adjust it if I want to stay at 50 watts.
>>>
>>> I assume the fan would help problem #1. How about problem #2?
>>>
>>> 73/Crit/K4BXN
>>>

1535. Re: [DrakeRadio] TR7 Power Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 17:54:01 UTC
From: Garey Barrell
Topic: 1533 Message: 1535

Jim -

Probably increases in gain as the PA and driver transistors heat up. At full output, the power level is controlled by the transmit ALC (green LED on the front panel). Connect the ALC and the problem will take care of itself.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

James Chaggaris wrote:
> Here's a new one that maybe someone can help me with. Since my TR7A puts
> out 120-130W on 40, I always turn down the drive level to about 70W when
> running my L7 amp. Recently, I noticed that when I turn the ouput down to
> 70W and leave the rig keyed for a few seconds, the output starts to creep up
> from 70W to 73W then 78W etc...on up to 80+ watts. I haven't kept it keyed
> down for a long time to see if it creeps up any more than 80W but it's got
> me puzzled.
>
> Also, when I'm running the full ouput(130W), the ouput remains stable..
>
> Any thoughts?
>
> 73,
>
> Jim N9WW
>

1536. Re: TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 20:40:42 UTC
From: jch39_99
Topic: 1519 Message: 1536

Thanks Garey for the input.

Boy, will have a hard time finding space on the floor to put the PS.
You would not believe what is there already ... not your problem.

Incidentally, the power creeping up problem noted in another message
is the same on my rig ... your response makes sense.

I think the prior owner had set the ALC limit to 100 w already. Can't
get higher than 100w out on any band (into a dummy load) no matter
where I set the ALC control.

Good to hear that the TR-7 is so over built it can loaf along at 100 -
120 watts.

Getting a fan and will see about finding space for the PS on floor.

Tnx agn.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> OK. Well the PA of the TR-7 is very conservatively rated, and will run
> full power (120 -130W output) "forever". Some just have to turn the
> output ALC up to 140 - 150W or even up to almost 200W. It WILL run
> that much power, but there is no room for error such as antenna
> problems, overheating, etc. So reducing power below 120W or so really
> doesn't protect anything but the electric bill! :-) I don't know if
> the transmit ALC control will set that low or not, but that would be
the
> way to do it if you just don't want to run more than 50W.
>
> Putting the TR-7 on top of the PS-7 is not a particularly good idea.
> Again, temperature variations are the enemy of stability. When you
> transmit, the PA heats up, and the power supply heats up. When you go
> back to receive, they both cool down. Having the TR-7 on top lets
that
> heat variation from the power supply rise up to the TR-7.
>
> I would try sitting the PS-7 on the floor, or even on top of the
TR-7 to
> see if that helps.
>
> Aside from that, I have found cases where the analog switch IC U1, on
> the Parent board, gets noisy. This "noise" is applied to the PTO's RIT

> pin and can cause random small frequency changes. The effect can
> appear even with the RIT Off. A sensitive scope on the RIT pin (on
the
> side of the PTO) can show this voltage.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

1537. TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 22:34:53 UTC
From: DALE PARFITT
Topic: 1075 Message: 1537

I have noticed that when I tune an SSB station to what sounds normal to me (I know the what TX stations voices sound like in person), everyone reports me to be 30-50Hz off on TX. Indeed now that I have the digital readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX. I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small differential for the zener to operate under (11.1-10). Is 11.1 normal for the DC into the PTO and/or any ideas what causes the shift? I seem to recall my other TR-4CW/RIT does not shift.
Is this normal? Is it just different loading of the PTO under TX?

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1538. Re: [DrakeRadio] Re: TR-7 and Fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:47:56 UTC
From: v44kai
Topic: 1519 Message: 1538

Hi Crit,

You can use Garey other suggestion, and put the PS-7 on the top of the TR-7
help a lot with the heat subtraction from the TR-7 since hot air rises the
PS-7 heat will not affect the TR-7 , but the reverse will be true, the the
TR-7 heat will affect the PS-7, but the PS isn't the D.U.T. so no big deal.

v44kai.....Joel.

----- Original Message -----
From: "jch39_99" <jcharley@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, November 21, 2008 3:40 PM
Subject: [DrakeRadio] Re: TR-7 and Fan

> Thanks Garey for the input.
>
> Boy, will have a hard time finding space on the floor to put the PS.
> You would not believe what is there already ... not your problem.
>
> Incidentally, the power creeping up problem noted in another message
> is the same on my rig ... your response makes sense.
>
> I think the prior owner had set the ALC limit to 100 w already. Can't
> get higher than 100w out on any band (into a dummy load) no matter
> where I set the ALC control.
>
> Good to hear that the TR-7 is so over built it can loaf along at 100 -
> 120 watts.
>
> Getting a fan and will see about finding space for the PS on floor.
>
> Tnx agn.
> 73/Crit/K4BXN
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>>
>> Crit -
>>
>> OK. Well the PA of the TR-7 is very conservatively rated, and will run
>> full power (120 -130W output) "forever". Some just have to turn the
>> output ALC up to 140 - 150W or even up to almost 200W. It WILL run
>> that much power, but there is no room for error such as antenna
>> problems, overheating, etc. So reducing power below 120W or so really
>> doesn't protect anything but the electric bill! :-) I don't know if

>> the transmit ALC control will set that low or not, but that would be
> the
>> way to do it if you just don't want to run more than 50W.
>>
>> Putting the TR-7 on top of the PS-7 is not a particularly good idea.
>> Again, temperature variations are the enemy of stability. When you
>> transmit, the PA heats up, and the power supply heats up. When you go
>> back to receive, they both cool down. Having the TR-7 on top lets
> that
>> heat variation from the power supply rise up to the TR-7.
>>
>> I would try sitting the PS-7 on the floor, or even on top of the
> TR-7 to
>> see if that helps.
>>
>> Aside from that, I have found cases where the analog switch IC U1, on
>> the Parent board, gets noisy. This "noise" is applied to the PTO's RIT
>> pin and can cause random small frequency changes. The effect can
>> appear even with the RIT Off. A sensitive scope on the RIT pin (on
> the
>> side of the PTO) can show this voltage.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1803 - Release Date: 11/21/2008
9:37 AM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1803 - Release Date: 11/21/2008 9:37 AM

[Non-text portions of this message have been removed]

1539. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 22:54:17 UTC
From: Garey Barrell
Topic: 1075 Message: 1539

Dale -

I assume you have the RIT turned off?

The current source for the Zener in the PTO is actually via R140 from the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling resistor inside the PTO that causes the 11V reading.

What digital readout are you using? If it's the DD-103 discussed here (or somewhere?) recently, it actually measures only the PTO. If that is the case, I would look at the RIT circuitry. The 4016 analog switches are not often noisy and/or leaky. Check the voltage on the RIT terminal on the PTO to see if it's varying from R to T.

If NOT the DD-103, it's possible that one of the other oscillators, Carrier or Band, are changing from R to T. Both are crystal controlled, so not likely, but stranger things have happened.!

The PTO loading does not change from R to T.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have noticed that when I tune an SSB station to what sounds normal to me (I know the what TX stations voices sound like in person), everyone reports me to be 30-50Hz off on TX. Indeed now that I have the digital readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX. I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small differential for the zener to operate under (11.1-10). Is 11.1 normal for the DC into the PTO and/or any ideas what causes the shift? I seem to recall my other TR-4CW/RIT does not shift.
> Is this normal? Is it just different loading of the PTO under TX?
>
> Tnx,
>
> Dale W4OP
>
>

1540. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 22:57:39 UTC
From: Garey Barrell
Topic: 1075 Message: 1540

Dale -

Oops! Should have read ...

The 4016 analog switches ARE often noisy and/or leaky.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have noticed that when I tune an SSB station to what sounds normal to me (I know the what TX stations voices sound like in person), everyone reports me to be 30-50Hz off on TX. Indeed now that I have the digital readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX. I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small differential for the zener to operate under (11.1-10). Is 11.1 normal for the DC into the PTO and/or any ideas what causes the shift? I seem to recall my other TR-4CW/RIT does not shift.
> Is this normal? Is it just different loading of the PTO under TX?
>
> Tnx,
>
> Dale W4OP
>

1541. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:11:14 UTC
From: DALE PARFITT
Topic: 1075 Message: 1541

Hi Garey,
Yes, the RIT is off.
I did not see the CW/RIT PTO schematic on your CD- did I miss it or is it on your site?
OK on the 11.1VDC- I was aware of the 100 Ohm resistor- I just thought they would have run more current through the zener- but I see it is 10mA which is fine.

I can hear the PTO shift on my R7 when listening directly in the 5 MHz region- so it is the PTO.
So, until I get the PTO schematic (which I think is the same as the TR-7 PTO?) and know where to find the RIT input I'll continue probing and have a look at the RIT board and monitor the output there.
Thanks,

Dale W4OP

Dale -

I assume you have the RIT turned off?

The current source for the Zener in the PTO is actually via R140 from the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling resistor inside the PTO that causes the 11V reading.

What digital readout are you using? If it's the DD-103 discussed here (or somewhere?) recently, it actually measures only the PTO. If that is the case, I would look at the RIT circuitry. The 4016 analog switches are not often noisy and/or leaky. Check the voltage on the RIT terminal on the PTO to see if it's varying from R to T.

If NOT the DD-103, it's possible that one of the other oscillators, Carrier or Band, are changing from R to T. Both are crystal controlled, so not likely, but stranger things have happened.!

The PTO loading does not change from R to T.

73, Garey - K4OAH
Glen Allen, VA

te: 11/21/2008 6:24 PM

1542. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:24:24 UTC
From: DALE PARFITT
Topic: 1075 Message: 1542

Hi Garey,
I see w/ the RIT off, the output voltage does change by 20-40mV when I go from RX to TX- and when I vary the RIT that amount (w/ RIT on) it does account for the RX/TX shift.
Would changing out the 4016 eliminate this or greatly reduce it?

Dale W4OP

I assume you have the RIT turned off?

The current source for the Zener in the PTO is actually via R140 from the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling resistor inside the PTO that causes the 11V reading.

What digital readout are you using? If it's the DD-103 discussed here (or somewhere?) recently, it actually measures only the PTO. If that is the case, I would look at the RIT circuitry. The 4016 analog switches are not often noisy and/or leaky. Check the voltage on the RIT terminal on the PTO to see if it's varying from R to T.

If NOT the DD-103, it's possible that one of the other oscillators, Carrier or Band, are changing from R to T. Both are crystal controlled, so not likely, but stranger things have happened.!

The PTO loading does not change from R to T.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have noticed that when I tune an SSB station to what sounds normal to me
> (I know the what TX stations voices sound like in person), everyone
> reports me to be 30-50Hz off on TX. Indeed now that I have the digital
> readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at
> a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX.
> I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small
> differential for the zener to operate under (11.1-10). Is 11.1 normal for
> the DC into the PTO and/or any ideas what causes the shift? I seem to
> recall my other TR-4CW/RIT does not shift.
> Is this normal? Is it just different loading of the PTO under TX?
>
> Tnx,
>
> Dale W4OP

>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date: 11/21/2008
6:24 PM

1543. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:24:49 UTC
From: Garey Barrell
Topic: 1075 Message: 1543

Dale -

The TR-4CwRIT Driver file should be on your CD in the "Versions" folder.

The PTO schematic IS the TR-7 schematic. The RIT terminal is what used
to be the RTTY terminal, on the side just behind the gearbox.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> Hi Garey,
> Yes, the RIT is off.
> I did not see the CW/RIT PTO schematic on your CD- did I miss it or is it
> on your site?
> OK on the 11.1VDC- I was aware of the 100 Ohm resistor- I just thought they
> would have run more current through the zener- but I see it is 10mA which is
> fine.
>
> I can hear the PTO shift on my R7 when listening directly in the 5 MHz
> region- so it is the PTO.
> So, until I get the PTO schematic (which I think is the same as the TR-7
> PTO?) and know where to find the RIT input I'll continue probing and have a
> look at the RIT board and monitor the output there.
> Thanks,
>
> Dale W4OP
>
> Dale -
>
> I assume you have the RIT turned off?
>
> The current source for the Zener in the PTO is actually via R140 from
> the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling
> resistor inside the PTO that causes the 11V reading.
>
> What digital readout are you using? If it's the DD-103 discussed here
> (or somewhere?) recently, it actually measures only the PTO. If that is
> the case, I would look at the RIT circuitry. The 4016 analog switches
> are not often noisy and/or leaky. Check the voltage on the RIT terminal
> on the PTO to see if it's varying from R to T.
>
> If NOT the DD-103, it's possible that one of the other oscillators,

> Carrier or Band, are changing from R to T. Both are crystal
> controlled, so not likely, but stranger things have happened.!
>
> The PTO loading does not change from R to T.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>

1544. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:30:44 UTC
From: Garey Barrell
Topic: 1075 Message: 1544

Dale -

OK. Now that you have the schematics, verify that the +15 at D301 is
stable, and if it is I would replace the 4016. I would also suggest
putting a low profile socket under it!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> Hi Garey,
> I see w/ the RIT off, the output voltage does change by 20-40mV when I go
> from RX to TX- and when I vary the RIT that amount (w/ RIT on) it does
> account for the RX/TX shift.
> Would changing out the 4016 eliminate this or greatly reduce it?
>
> Dale W4OP
>
> I assume you have the RIT turned off?
>
> The current source for the Zener in the PTO is actually via R140 from
> the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling
> resistor inside the PTO that causes the 11V reading.
>
> What digital readout are you using? If it's the DD-103 discussed here
> (or somewhere?) recently, it actually measures only the PTO. If that is
> the case, I would look at the RIT circuitry. The 4016 analog switches
> are not often noisy and/or leaky. Check the voltage on the RIT terminal
> on the PTO to see if it's varying from R to T.
>
> If NOT the DD-103, it's possible that one of the other oscillators,
> Carrier or Band, are changing from R to T. Both are crystal
> controlled, so not likely, but stranger things have happened.!
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> The PTO loading does not change from R to T.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> DALE PARFITT wrote:

>
>> I have noticed that when I tune an SSB station to what sounds normal to me
>> (I know the what TX stations voices sound like in person), everyone
>> reports me to be 30-50Hz off on TX. Indeed now that I have the digital
>> readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at
>> a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX.
>> I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small
>> differential for the zener to operate under (11.1-10). Is 11.1 normal for
>> the DC into the PTO and/or any ideas what causes the shift? I seem to
>> recall my other TR-4CW/RIT does not shift.
>> Is this normal? Is it just different loading of the PTO under TX?
>>
>> Tnx,
>>
>> Dale W4OP
>>
>

1545. RE: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:36:05 UTC
From: Jim Chaggaris
Topic: 1075 Message: 1545

Garey,

You've been busy today! :-)

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Friday, November 21, 2008 5:31 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR-4CW/RIT

Dale -

OK. Now that you have the schematics, verify that the +15 at D301 is stable, and if it is I would replace the 4016. I would also suggest putting a low profile socket under it!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> Hi Garey,
> I see w/ the RIT off, the output voltage does change by 20-40mV when I go
> from RX to TX- and when I vary the RIT that amount (w/ RIT on) it does
> account for the RX/TX shift.
> Would changing out the 4016 eliminate this or greatly reduce it?
>
> Dale W4OP
>

> I assume you have the RIT turned off?
>
> The current source for the Zener in the PTO is actually via R140 from
> the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling
> resistor inside the PTO that causes the 11V reading.
>
> What digital readout are you using? If it's the DD-103 discussed here
> (or somewhere?) recently, it actually measures only the PTO. If that is
> the case, I would look at the RIT circuitry. The 4016 analog switches
> are not often noisy and/or leaky. Check the voltage on the RIT terminal
> on the PTO to see if it's varying from R to T.
>
> If NOT the DD-103, it's possible that one of the other oscillators,
> Carrier or Band, are changing from R to T. Both are crystal
> controlled, so not likely, but stranger things have happened.!
>
> The PTO loading does not change from R to T.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> DALE PARFITT wrote:
>
>> I have noticed that when I tune an SSB station to what sounds normal to
me
>> (I know the what TX stations voices sound like in person), everyone
>> reports me to be 30-50Hz off on TX. Indeed now that I have the digital
>> readout, I see the 40Hz shift when I press PTT. I have measured the OA2
at
>> a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX.

>> I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small
>> differential for the zener to operate under (11.1-10). Is 11.1 normal for

>> the DC into the PTO and/or any ideas what causes the shift? I seem to
>> recall my other TR-4CW/RIT does not shift.
>> Is this normal? Is it just different loading of the PTO under TX?
>>
>> Tnx,
>>
>> Dale W4OP
>>
>

[Non-text portions of this message have been removed]

1546. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-21 23:44:31 UTC
From: DALE PARFITT
Topic: 1075 Message: 1546

Hi Garey,
The +15 varies by 10mV from RX/TX. I have an RCA 4016 in hand and a gold machined pin socket ready to install.
Tnx,
Dale

Dale -

OK. Now that you have the schematics, verify that the +15 at D301 is stable, and if it is I would replace the 4016. I would also suggest putting a low profile socket under it!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> Hi Garey,
> I see w/ the RIT off, the output voltage does change by 20-40mV when I go
> from RX to TX- and when I vary the RIT that amount (w/ RIT on) it does
> account for the RX/TX shift.
> Would changing out the 4016 eliminate this or greatly reduce it?
>
> Dale W4OP
>
> I assume you have the RIT turned off?
>
> The current source for the Zener in the PTO is actually via R140 from
> the 150 Reg bus. the Zener is 10V, but there is a 100 ohm decoupling
> resistor inside the PTO that causes the 11V reading.
>
> What digital readout are you using? If it's the DD-103 discussed here
> (or somewhere?) recently, it actually measures only the PTO. If that is
> the case, I would look at the RIT circuitry. The 4016 analog switches
> are not often noisy and/or leaky. Check the voltage on the RIT terminal
> on the PTO to see if it's varying from R to T.
>
> If NOT the DD-103, it's possible that one of the other oscillators,
> Carrier or Band, are changing from R to T. Both are crystal
> controlled, so not likely, but stranger things have happened.!
>
> The PTO loading does not change from R to T.
>
> 73, Garey - K4OAH

> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> DALE PARFITT wrote:
>
>> I have noticed that when I tune an SSB station to what sounds normal to me
>> (I know the what TX stations voices sound like in person), everyone
>> reports me to be 30-50Hz off on TX. Indeed now that I have the digital
>> readout, I see the 40Hz shift when I press PTT. I have measured the OA2 at
>> a stiff 145VDC and the DC going into the PTO as 11.1VDC- no change on TX.
>> I think that the PTO's zener is a 10V zener. 1.1 VDC seems like a small
>> differential for the zener to operate under (11.1-10). Is 11.1 normal for
>> the DC into the PTO and/or any ideas what causes the shift? I seem to
>> recall my other TR-4CW/RIT does not shift.
>> Is this normal? Is it just different loading of the PTO under TX?
>>
>> Tnx,
>>
>> Dale W4OP
>>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date: 11/21/2008 6:24 PM

[Non-text portions of this message have been removed]

1547. Re: [DrakeRadio] TR-4CW/RIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-22 00:50:06 UTC
From: DALE PARFITT
Topic: 1075 Message: 1547

Problem solved. I put in a gold machined pin socket and a new 4016. I am now seeing under 10Hz difference from RX to TX.
I sure appreciate your knowledge base Garey.

73,

Dale W4OP

[Non-text portions of this message have been removed]

1548. TR-7 and INRAD Filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-27 00:32:41 UTC
From: Al Scanandoah
Topic: 1548 Message: 1548

Has anyone done any critical comparison between the SL-500 and the INRAD 400 Hz filters? Of course, the bandwidths are different, but I'd like to know how the insertion loss and ripple compare, and possibly the skirts.

Tnx - Al, K2ZN

1549. WTB Drake 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-27 21:48:23 UTC
From: Jose V. Gavila
Topic: 1549 Message: 1549

Hello!

I want a 2-B for Christmas... could someone help me :-)?

Any condition considered. It just need to be complete; non-working is fine.

Thanks!

JOSE
---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1550. FS: One Lot Drake Rigs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-28 23:18:53 UTC
From: Fernando Quinones
Topic: 1550 Message: 1550

Hello.

I have for your consideration the following:

TR4CW/RIT with NB
AC4R
MS-4
DC-4
MN-4
300w dummy load
Above setup working beautifully with $1200 invested.

TR4 with NB
AC3
not working;lites up hear static with $100 invested.

TR4 without NB (no hole for NB)
AC4
RV4
not working; lites up also but just static with $200 invested

B Line
R4B
TX4B
AC4
MS-4
From a smoker; arrived with AC4 in MS-4 with case bent and fuse
holder broken;
R4B top case cover also slightly bent near the rear with $500 invested.

My interest have changed and would like some else to have them.

Selling as one lot, might consider splitting later.

I figured to have invested over $2000.

Would consider offer for the next two days (Sat, Sun) Nov 29 and Nov 30.

Please email direct.

thank you for the bandwidth.

Fernando N2FQ
<http://pages.sbcglobal.net/n2fq>

1551. Re: TR-7 T/R Thump - update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 00:37:53 UTC
From: Al Scanandoah
Topic: 1510 Message: 1551

I finally got a chance to dig into the radio this week. Sure enough, R1187 did not exist; not even a place on the PWB for it to go. I lifted one leg of CR1119 and inserted a 10k resistor in series.

All is good, and my ears are happy.

Al, K2ZN

1552. Re: [DrakeRadio] Re: TR-7 T/R Thump - update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 03:08:25 UTC
From: Don
Topic: 1510 Message: 1552

Thanks for the update ! and congrads on getting it fixed !

----- Original Message -----
From: Al Scanandoah
To: DrakeRadio@yahoogroups.com
Sent: Friday, November 28, 2008 5:37 PM
Subject: [DrakeRadio] Re: TR-7 T/R Thump - update

I finally got a chance to dig into the radio this week. Sure enough,
R1187 did not exist; not even a place on the PWB for it to go. I
lifted one leg of CR1119 and inserted a 10k resistor in series.

All is good, and my ears are happy.

Al, K2ZN

[Non-text portions of this message have been removed]

1553. Re: TR-7 T/R Thump - update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 04:07:48 UTC
From: jch39_99
Topic: 1510 Message: 1553

That is great Al. Tnx for update.
Is there any side affects to the fix?
Change the AGC or S mtr readings?
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "Al Scanandoah" <k2zn@...> wrote:
>
> I finally got a chance to dig into the radio this week. Sure enough,
> R1187 did not exist; not even a place on the PWB for it to go. I
> lifted one leg of CR1119 and inserted a 10k resistor in series.
>
> All is good, and my ears are happy.
>
> Al, K2ZN
>

1554. Which T-4X would be best?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 04:30:23 UTC
From: Randy
Topic: 1554 Message: 1554

I presently have a Drake 2B Receiver and I'm thinking about mating a Drake T-4X, or T-4XB, or T-4XC. Of those three choices, which one would you pick to match to a 2B receiver. I'm thinking of using this setup mostly for AM operation. Any and all comments will be gratefully received.

Thanks and 73,

Randy - K8HRO

1555. Re: [DrakeRadio] Which T-4X would be best?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 04:50:56 UTC
From: Garey Barrell
Topic: 1554 Message: 1555

Randy -

Not much difference among the three. The T-4X only has four-pole sideband filters, so the carrier and unwanted sideband suppression are inferior. Strictly speaking, it will probably not meet current "Purity of Emission" standards. Of NO concern on CW or AM, but might make you unpopular with nearby hams, especially if you decide to add a linear amp!! Most likely no one would notice unless they happened to live next door and operate the same bands and modes you do!! The B and C models have eight pole filters so no problem. The B and C have FET PTOs, which are slightly more stable than the Bipolar PTO, but not significantly.

Aside from that, the other differences are cosmetic. The T-4X and B have five kHz marks on dial with 1 kHz marks on knob skirt, (kinda like the 2-B!,) the C has dual disc dial mechanism.

Any of them will benefit from a small fan on the back of the Final cage, blowing OUT, to reduce heat and extend final tube life.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> I presently have a Drake 2B Receiver and I'm thinking about mating a
> Drake T-4X, or T-4XB, or T-4XC. Of those three choices, which one
> would you pick to match to a 2B receiver. I'm thinking of using this
> setup mostly for AM operation. Any and all comments will be
> gratefully received.
>
> Thanks and 73,
>
> Randy - K8HRO
>
>

1556. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 11:17:15 UTC
From: Victor Waddington
Topic: 606 Message: 1556

Hi
Every now and again I keep trying so here we go again!
Wanted T-4XC (dead or alive)Not bothered about condition too much or missing valves so long as the rest is complete and not hacked about.
AC4 not required.
Vic
G4JSS

1557. REAL Drake Blue.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 22:44:52 UTC
From: Garey Barrell
Topic: 1557 Message: 1557

To the rest of the Luddites out there -

I know you're out there, I can hear you breathing........

Jim and Don have done really nice work with LEDs, and it's a very nice blue, but it's not "Real Blue" !! :-)

I finally got some time to work out something that has been bothering me for a while. The Drake "Blue" tends to go green with age, resulting in a not-so-pretty blue-green dial. There have been various theories / excuses for this, usually revolving around the fact that incandescent bulbs such as the #47 and #755 have a "yellowish" cast to them. Well, they really don't, unless you have extremely low line voltage.

The reason appears to be that the "white" paint on the reflectors of the dial and meter housing tends to yellow with age, and this is where the "tint" is coming from. When the blue film fades a little bit, (difficult to see unless you put it on a sheet of white paper,) the yellow overpowers it and _blue-green_ dials...

So. One can of Testor's Flat White spray enamel from the Hobby shop, a quick spray, a new piece of Lee Lighting #172 "Lagoon Blue", and the dial and meter have that beautiful, "Real Blue" glow.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1558. REAL Drake Blue.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 22:45:28 UTC
From: Garey Barrell
Topic: 1557 Message: 1558

To the rest of the Luddites out there -

I know you're out there, I can hear you breathing........

Jim and Don have done really nice work with LEDs, and it's a very nice blue, but it's not "Real Blue" !! :-)

I finally got some time to work out something that has been bothering me for a while. The Drake "Blue" tends to go green with age, resulting in a not-so-pretty blue-green dial. There have been various theories / excuses for this, usually revolving around the fact that incandescent bulbs such as the #47 and #755 have a "yellowish" cast to them. Well, they really don't, unless you have extremely low line voltage.

The reason appears to be that the "white" paint on the reflectors of the dial and meter housing tends to yellow with age, and this is where the "tint" is coming from. When the blue film fades a little bit, (difficult to see unless you put it on a sheet of white paper,) the yellow overpowers it and _blue-green_ dials...

So. One can of Testor's Flat White spray enamel from the Hobby shop, a quick spray, a new piece of Lee Lighting #172 "Lagoon Blue", and the dial and meter have that beautiful, "Real Blue" glow.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1559. Re: [DrakeRadio] REAL Drake Blue.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 22:53:44 UTC
From: Sprint
Topic: 1557 Message: 1559

Nice 'fix' Garey!

Thank you!

Joe Wolfe
WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: [DrakeRadio] REAL Drake Blue.....

> So. One can of Testor's Flat White spray enamel from the Hobby shop, a
> quick spray, a new piece of Lee Lighting #172 "Lagoon Blue", and the
> dial and meter have that beautiful, "Real Blue" glow.

1560. Re: REAL Drake Blue.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-29 23:02:46 UTC
From: Tim Stotenburg
Topic: 1557 Message: 1560

Nice!

Will have to give it a try.
Thanx

1561. T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 06:43:30 UTC
From: Ryan Pigg
Topic: 1557 Message: 1561

Greetings group,

I'm working on another T4XB that I paid too much for only to find out there is a problem with it.

I put it on the air on 80m and received reports that I was off freq while checking into a net. I listed to it on my receiver and indeed, the audio drifts and sounds garbled in LSB. Oddly, it sounds fine in USB.

I already changed the Blue (date code 7015-8) LSB filter from a parts unit. Still have the same problem in LSB, but OK in USB. Could my parts unit filter be bad too? Are these filters a common failure? Could the filter match xfmrs be out of tune? (I have not tweaked anything yet) Or could it be one of the diodes in the bal mod that may be leaky? That's not too fun to get into so I thought I'd ask the guys here before tearing into it.

Thanks group,

73, Ryan, N7QJ

[Non-text portions of this message have been removed]

1562. Re: T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 20:06:04 UTC
From: w5rkl
Topic: 1557 Message: 1562

Hello Ryan,

A diode in the balance modulator being bad would affect both USB and LSB, not just one sideband.

Somehow I doubt both filters are bad. I could be wrong but I've never seen this happen before, two filters be bad at the same time. Maybe Garey has but I haven't.

My first thought is to check the carrier generator oscillator, V1. If you have access to a frequency counter, connect the counter to the carrier null pot wiper, R4 to read the carrier generator's crystal frequency. It should be close to 5.645Mhz. If you don't have a frequency counter or access to one, use a separate accurate receiver tuned to 5.645Mhz with a wire connected to the receiver's antenna then wrap the other end around V1. Zero beat the signal and note the receiver's dial. A receiver with a digital dial works much better when doing this check. You don't have to place the T4XB in transmit to hear V1's carrier oscillator signal. I have seen this oscillator be off frequency and even stop working. A non-working V1 carrier oscillator will produce zero output in all modes on all bands.

You can also use a piece of wire with a .01ufd cap in series, touching the carrier null pot's wiper with the other end of the wire connected to the separate receiver's antenna. The cap serves as a DC blocking capacitor keeping any DC voltage off the receiver's antenna, just a safety thing with me. No need for any DC voltage being applied to the separate receiver's antenna connection.

The other question is, are you operating the T4XB with a R4XB or other Drake receiver using the TRANSCEIVE switch settings at either "RCVR or "XMTR" positions? If so did you check the alignment and, if required, adjust them appropriately as indicated in the manual for this function?

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@...> wrote:
>
>
> Greetings group,
>
> I'm working on another T4XB that I paid too much for only to find out there is a problem with it.
>
> I put it on the air on 80m and received reports that I was off freq

while checking into a net. I listed to it on my receiver and indeed, the audio drifts and sounds garbled in LSB. Oddly, it sounds fine in USB.
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> I already changed the Blue (date code 7015-8) LSB filter from a parts unit. Still have the same problem in LSB, but OK in USB. Could my parts unit filter be bad too? Are these filters a common failure? Could the filter match xfmrs be out of tune? (I have not tweaked anything yet) Or could it be one of the diodes in the bal mod that may be leaky? That's not too fun to get into so I thought I'd ask the guys here before tearing into it.
>
> Thanks group,
>
> 73, Ryan, N7QJ
>
> [Non-text portions of this message have been removed]
>

1563. Re: [DrakeRadio] Re: T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 21:25:39 UTC
From: Ryan Pigg
Topic: 1557 Message: 1563

Mike,

Dohhhh! you called it - the carrier osc was off frequency. It was reading about 5.6445.. I adjusted C2 to right on 5.645 and now it sounds good on LSB.

I did not think about that since everything else was working (full power out in tune, USB etc). but it would make since that it being off would skew the signal so not all would go through the filter..

Now I'm going to put the orig filter back in and my parts unit (now no longer a parts unit) is next on the bench.

Thanks again for your time and for enlightening me!

73's Ryan N7QJ

--- On Sun, 11/30/08, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 30, 2008, 12:06 PM

Hello Ryan,

A diode in the balance modulator being bad would affect both USB and LSB, not just one sideband.

Somehow I doubt both filters are bad. I could be wrong but I've never seen this happen before, two filters be bad at the same time. Maybe Garey has but I haven't.

My first thought is to check the carrier generator oscillator, V1. If you have access to a frequency counter, connect the counter to the carrier null pot wiper, R4 to read the carrier generator's crystal frequency. It should be close to 5.645Mhz. If you don't have a frequency counter or access to one, use a separate accurate receiver tuned to 5.645Mhz with a wire connected to the receiver's antenna then wrap the other end around V1. Zero beat the signal and note the receiver's dial. A receiver with a digital dial works much better when doing this check. You don't have to place the T4XB in transmit to hear V1's carrier oscillator signal. I have seen this oscillator be off frequency and even stop working. A non-working V1 carrier oscillator will produce zero output in all modes on all bands.

You can also use a piece of wire with a .01ufd cap in series, touching the carrier null pot's wiper with the other end of the wire connected to the separate receiver's antenna. The cap serves as a DC blocking

capacitor keeping any DC voltage off the receiver's antenna, just a safety thing with me. No need for any DC voltage being applied to the separate receiver's antenna connection.

The other question is, are you operating the T4XB with a R4XB or other Drake receiver using the TRANSCEIVE switch settings at either "RCVR or "XMTR" positions? If so did you check the alignment and, if required, adjust them appropriately as indicated in the manual for this function?

73
Mike
W5RKL

--- In DrakeRadio@yahoogro ups.com, Ryan Pigg <tweeker42000@ ...> wrote:
>
>
> Greetings group,
>
> I'm working on another T4XB that I paid too much for only to find out there is a problem with it.
>
> I put it on the air on 80m and received reports that I was off freq while checking into a net. I listed to it on my receiver and indeed, the audio drifts and sounds garbled in LSB. Oddly, it sounds fine in USB.
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> I already changed the Blue (date code 7015-8) LSB filter from a parts unit. Still have the same problem in LSB, but OK in USB. Could my parts unit filter be bad too? Are these filters a common failure? Could the filter match xfmrs be out of tune? (I have not tweaked anything yet) Or could it be one of the diodes in the bal mod that may be leaky? That's not too fun to get into so I thought I'd ask the guys here before tearing into it.
>
> Thanks group,
>
> 73, Ryan, N7QJ
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1564. Re: T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 22:24:22 UTC
From: w5rkl
Topic: 1557 Message: 1564

Well "Shazam Sgt Carter" that's great. Have fun, I'm sure you're going
to enjoy the T4XB transmitter, it's a nice transmitter.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Ryan Pigg <tweeker42000@...> wrote:
>
> Mike,
>
> Dohhhh! you called it - the carrier osc was off frequency. It was
reading about 5.6445.. I adjusted C2 to right on 5.645 and now it
sounds good on LSB.
>
> I did not think about that since everything else was working (full
power out in tune, USB etc). but it would make since that it being
off would skew the signal so not all would go through the filter..
>
> Now I'm going to put the orig filter back in and my parts unit (now
no longer a parts unit) is next on the bench.
>
> Thanks again for your time and for enlightening me!
>
> 73's Ryan N7QJ
>
> --- On Sun, 11/30/08, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
> To: DrakeRadio@yahoogroups.com
> Date: Sunday, November 30, 2008, 12:06 PM
>
>
>
>
>
>
>
> Hello Ryan,
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> LSB, not just one sideband.
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> seen this happen before, two filters be bad at the same time. Maybe

> Garey has but I haven't.
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> carrier null pot wiper, R4 to read the carrier generator's crystal
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> tuned to 5.645Mhz with a wire connected to the receiver's antenna then
> wrap the other end around V1. Zero beat the signal and note the
> receiver's dial. A receiver with a digital dial works much better when
> doing this check. You don't have to place the T4XB in transmit to hear
> V1's carrier oscillator signal. I have seen this oscillator be off
> frequency and even stop working. A non-working V1 carrier oscillator
> will produce zero output in all modes on all bands.
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> You can also use a piece of wire with a .01ufd cap in series, touching
> the carrier null pot's wiper with the other end of the wire connected
> to the separate receiver's antenna. The cap serves as a DC blocking
> capacitor keeping any DC voltage off the receiver's antenna, just a
> safety thing with me. No need for any DC voltage being applied to the
> separate receiver's antenna connection.
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> The other question is, are you operating the T4XB with a R4XB or other
> Drake receiver using the TRANSCEIVE switch settings at either "RCVR or
> "XMTR" positions? If so did you check the alignment and, if required,
> adjust them appropriately as indicated in the manual for this function?
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogro ups.com, Ryan Pigg <tweeker42000@ ...> wrote:
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> >
> > Greetings group,
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> > I'm working on another T4XB that I paid too much for only to find
> out there is a problem with it.
> >
> > I put it on the air on 80m and received reports that I was off freq
> while checking into a net. I listed to it on my receiver and indeed,
> the audio drifts and sounds garbled in LSB. Oddly, it sounds fine in
> USB.
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> > I already changed the Blue (date code 7015-8) LSB filter from a
> parts unit. Still have the same problem in LSB, but OK in USB. Could
> my parts unit filter be bad too? Are these filters a common failure?
> Could the filter match xfmrs be out of tune? (I have not tweaked
> anything yet) Or could it be one of the diodes in the bal mod that
> may be leaky? That's not too fun to get into so I thought I'd ask the

> guys here before tearing into it.
> >
> > Thanks group,
> >
> > 73, Ryan, N7QJ
> >
> > [Non-text portions of this message have been removed]
> >
>
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>
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>
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> [Non-text portions of this message have been removed]
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1565. Re: [DrakeRadio] Re: T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 22:36:06 UTC
From: Ryan Pigg
Topic: 1557 Message: 1565

Mike,

Well, the LSB issue is fixed and the orig filter is back in - all good 80-15m LSB/USB, however, on 10m, when I key the mic, it acts as if it is tune mode.

Any ideas?

Thanks, Ryan

BTW - I have 4 T4XB's - 2 complete functioning, 1 parts unit (basket case) and the one I am working on. They sure are nice rigs.

--- On Sun, 11/30/08, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 30, 2008, 2:24 PM

Well "Shazam Sgt Carter" that's great. Have fun, I'm sure you're going
to enjoy the T4XB transmitter, it's a nice transmitter.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogro ups.com, Ryan Pigg <tweeker42000@ ...> wrote:
>
> Mike,
>
> Dohhhh! you called it - the carrier osc was off frequency. It was
reading about 5.6445.. I adjusted C2 to right on 5.645 and now it
sounds good on LSB.
>
> I did not think about that since everything else was working (full
power out in tune, USB etc). but it would make since that it being
off would skew the signal so not all would go through the filter..
>
> Now I'm going to put the orig filter back in and my parts unit (now
no longer a parts unit) is next on the bench.
>
> Thanks again for your time and for enlightening me!
>
> 73's Ryan N7QJ
>
> --- On Sun, 11/30/08, w5rkl <w5rkl@...> wrote:
>

> From: w5rkl <w5rkl@...>
> Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
> To: DrakeRadio@yahoogro ups.com
> Date: Sunday, November 30, 2008, 12:06 PM
>
>
>
>
>
>
> Hello Ryan,
>
> A diode in the balance modulator being bad would affect both USB and
> LSB, not just one sideband.
>
> Somehow I doubt both filters are bad. I could be wrong but I've never
> seen this happen before, two filters be bad at the same time. Maybe
> Garey has but I haven't.
>
> My first thought is to check the carrier generator oscillator, V1. If
> you have access to a frequency counter, connect the counter to the
> carrier null pot wiper, R4 to read the carrier generator's crystal
> frequency. It should be close to 5.645Mhz. If you don't have a
> frequency counter or access to one, use a separate accurate receiver
> tuned to 5.645Mhz with a wire connected to the receiver's antenna then
> wrap the other end around V1. Zero beat the signal and note the
> receiver's dial. A receiver with a digital dial works much better when
> doing this check. You don't have to place the T4XB in transmit to hear
> V1's carrier oscillator signal. I have seen this oscillator be off
> frequency and even stop working. A non-working V1 carrier oscillator
> will produce zero output in all modes on all bands.
>
> You can also use a piece of wire with a .01ufd cap in series, touching
> the carrier null pot's wiper with the other end of the wire connected
> to the separate receiver's antenna. The cap serves as a DC blocking
> capacitor keeping any DC voltage off the receiver's antenna, just a
> safety thing with me. No need for any DC voltage being applied to the
> separate receiver's antenna connection.
>
> The other question is, are you operating the T4XB with a R4XB or other
> Drake receiver using the TRANSCEIVE switch settings at either "RCVR or
> "XMTR" positions? If so did you check the alignment and, if required,
> adjust them appropriately as indicated in the manual for this function?
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogro ups.com, Ryan Pigg <tweeker42000@ ...> wrote:
> >

> >
> > Greetings group,
> >
> > I'm working on another T4XB that I paid too much for only to find
> out there is a problem with it.
> >
> > I put it on the air on 80m and received reports that I was off freq
> while checking into a net. I listed to it on my receiver and indeed,
> the audio drifts and sounds garbled in LSB. Oddly, it sounds fine in
> USB.
> >
> > I already changed the Blue (date code 7015-8) LSB filter from a
> parts unit. Still have the same problem in LSB, but OK in USB. Could
> my parts unit filter be bad too? Are these filters a common failure?
> Could the filter match xfmrs be out of tune? (I have not tweaked
> anything yet) Or could it be one of the diodes in the bal mod that
> may be leaky? That's not too fun to get into so I thought I'd ask the
> guys here before tearing into it.
> >
> > Thanks group,
> >
> > 73, Ryan, N7QJ
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1566. Re: [DrakeRadio] Re: T4XB problem in LSB, OK in USB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-11-30 23:49:21 UTC
From: Ryan Pigg
Topic: 1557 Message: 1566

OK, we are all good now. GE tubes and C49 was not even meshed. What was odd was that when I keyed it, it was 500kHz off from the VFO freq. So there was an oscillation which would go away if you bumped the load control. Now the Xmtr has been neutralized and works as it should!

Now I can button this up. Thanks again Mike for your help. This was a good learning experience.

73's
Ryan, N7QJ

--- On Sun, 11/30/08, Ryan Pigg <tweeker42000@...> wrote:

From: Ryan Pigg <tweeker42000@...>
Subject: Re: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 30, 2008, 2:36 PM

Mike,

Well, the LSB issue is fixed and the orig filter is back in - all good 80-15m LSB/USB, however, on 10m, when I key the mic, it acts as if it is tune mode.

Any ideas?

Thanks, Ryan

BTW - I have 4 T4XB's - 2 complete functioning, 1 parts unit (basket case) and the one I am working on. They sure are nice rigs.

--- On Sun, 11/30/08, w5rkl <w5rkl@yahoo. com> wrote:

From: w5rkl <w5rkl@yahoo. com>
Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
To: DrakeRadio@yahoogro ups.com
Date: Sunday, November 30, 2008, 2:24 PM

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to enjoy the T4XB transmitter, it's a nice transmitter.

73s
Mike
W5RKL

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>
> Mike,
>

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reading about 5.6445.. I adjusted C2 to right on 5.645 and now it
sounds good on LSB.
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> I did not think about that since everything else was working (full
power out in tune, USB etc). but it would make since that it being
off would skew the signal so not all would go through the filter..
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> 73's Ryan N7QJ
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> From: w5rkl <w5rkl@...>
> Subject: [DrakeRadio] Re: T4XB problem in LSB, OK in USB
> To: DrakeRadio@yahoogro ups.com
> Date: Sunday, November 30, 2008, 12:06 PM
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> frequency counter or access to one, use a separate accurate receiver
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> 73
> Mike
> W5RKL
>
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> > Greetings group,
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> > I put it on the air on 80m and received reports that I was off freq
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> Could the filter match xfmrs be out of tune? (I have not tweaked
> anything yet) Or could it be one of the diodes in the bal mod that
> may be leaky? That's not too fun to get into so I thought I'd ask the
> guys here before tearing into it.
> >
> > Thanks group,
> >
> > 73, Ryan, N7QJ
> >
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1567. TR-7 5.645 MHz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 00:26:10 UTC
From: Al Scanandoah
Topic: 1567 Message: 1567

Does anyone happen to have one of these? It's the one for the CW oscillator on the IF/audio board.

Discovered that my CW note was rather mushy, due to slow oscillator startup. Unfortunately, during the troubleshooting process, the crystal died out altogether.

Tnx & 73 - Al, K2ZN

1568. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 08:14:16 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1568

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1569. Re: TR-7 5.645 MHz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 12:11:58 UTC
From: w5rkl
Topic: 1567 Message: 1569

Good morning Al,

I don't have a 5.645Mhz crystal. If you can't locate a good used one
then International Crystals in Oklahoma City, OK, can make one for you.

http://www.icmfg.com/hamradio-manufacturers.html

Jans Crystals in Fort Myers, Florida can also make one for you.

http://www.jancrystals.com/

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Al Scanandoah <k2zn@...> wrote:
>
> Does anyone happen to have one of these? It's the one for the CW
> oscillator on the IF/audio board.
>
> Discovered that my CW note was rather mushy, due to slow oscillator
> startup. Unfortunately, during the troubleshooting process, the
crystal
> died out altogether.
>
> Tnx & 73 - Al, K2ZN
>

1570. Any better rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 12:59:26 UTC
From: jch39_99
Topic: 1570 Message: 1570

I have been enjoying my TR-7 that I picked up about 2 months ago.
The fan has cured my drifting problems.

With RF gain reduced and using the Idiom Press SCAF filter between the rig and an outboard speaker/headphones, CW is an absolute dream to listen to.

My question ...
Are the other Drake rigs (B/C line, etc.) as good (or better) for easy listening CW?

73/Crit/K4BXN

1571. TR-7A Mode Switch thight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 14:48:14 UTC
From: Joel
Topic: 1571 Message: 1571

Hi all on the group,

A friend reported to me Today, that he has a hard time turning the mode switch, and it is gitting thighter the more he uses it. Anyone had this problem before? And how did you solved this issue?

Your comment is important. Thanks in advanced.

v44kai.....Joel.

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.12/1822 - Release Date: 12/1/2008 8:23 AM

[Non-text portions of this message have been removed]

1572. Re: Any better rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 14:11:31 UTC
From: w5rkl
Topic: 1570 Message: 1572

Hello Crit,

Although I have operated a TR-7 many years ago I can't give a good comparison between the TR-7's CW audio and the B/C line. I do, however, have a highly modified R4C that I really enjoy, especially on CW. The Notch adjustment, passband tuning, and new INRAD filters makes CW copy quite enjoyable. I once owned a B line and enjoyed the R4B. It had nothing else to buy, the all in one receiver as I called it. It too operated quite well on CW, although I preferred the R4C over the R4B. This is not to say the R4B is not a good receiver, it simply means I like the R4C. I must admit I should never have sold the B line. But, that's water under the bridge.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> I have been enjoying my TR-7 that I picked up about 2 months ago.
> The fan has cured my drifting problems.
>
> With RF gain reduced and using the Idiom Press SCAF filter between the
> rig and an outboard speaker/headphones, CW is an absolute dream to
> listen to.
>
> My question ...
> Are the other Drake rigs (B/C line, etc.) as good (or better) for easy
> listening CW?
>
> 73/Crit/K4BXN
>

1573. Re: [DrakeRadio] Re: Any better rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-01 16:26:10 UTC
From: g4jss@tiscali.co.uk
Topic: 1570 Message: 1573

Mike/Crit

I suppose it's down to the user and how they view it.

I use the R4C which is filtered up for both narrow and narrower CW - 2 filters. I also use the TR7 which has the standard SSB filter and the 1.8khz filter - (A & B)

I prefer the R4C in CW terms (I am CW only) and I don't think audio is very important with CW.

I don't often use the filters on the R-4C - as you said, the passband and notch take care of most situations

One of these days I am going to pick up a mike, talk into it and see what happens!! Do they bite?

Vic

----Original Message----
From: w5rkl@...
Date: 01/12/2008 14:11
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: Any better rig?

Hello Crit,

Although I have operated a TR-7 many years ago I can't give a good comparison between the TR-7's CW audio and the B/C line. I do, however, have a highly modified R4C that I really enjoy, especially on CW. The Notch adjustment, passband tuning, and new INRAD filters makes CW copy quite enjoyable. I once owned a B line and enjoyed the R4B. It had nothing else to buy, the all in one receiver as I called it. It too operated quite well on CW, although I preferred the R4C over the R4B. This is not to say the R4B is not a good receiver, it simply means I like the R4C. I must admit I should never have sold the B line. But, that's water under the bridge.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> I have been enjoying my TR-7 that I picked up about 2 months ago.
> The fan has cured my drifting problems.
>
> With RF gain reduced and using the Idiom Press SCAF filter between the
> rig and an outboard speaker/headphones, CW is an absolute dream to

> listen to.
>
> My question ...
> Are the other Drake rigs (B/C line, etc.) as good (or better) for easy
> listening CW?
>
> 73/Crit/K4BXN
>

_____
Cheap breaks from Tiscali - http://www.tiscali.co.uk/travel/
_____

[Non-text portions of this message have been removed]

1574. TR-7A Mode Switch thight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-02 19:41:33 UTC
From: Joel
Topic: 1571 Message: 1574

Hi all on the group, (second time)

A friend reported to me Today, that he has a hard time turning the mode switch, and it is gitting thighter the more he uses it. Anyone had this problem before? And how did you solved this issue?

Your comment is important. Thanks in advanced.

v44kai.....Joel.

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.12/1824 - Release Date: 12/2/2008 9:31 AM

[Non-text portions of this message have been removed]

1575. Re: Any better rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-03 20:03:05 UTC
From: w5rkl
Topic: 1570 Message: 1575

Although the R4C NOTCH and PASSBAND TUNING controls can eliminate most adjacent frequency interference, the efficiency of these two controls is based on the IF filter's bandwidth. A poor IF crystal filter will allow quite a bit of garbage to come through and interfere with the station you are trying to hear.

A good CW filter and adjusting the PASSBAND TUNING, can eliminate most adjacent interference quite well. Audio filtering is a waste of time and money. I've tried that and although audio filtering does give the appearance of selectivity, the selectivity is only in the audio, not the IF. Therefore, a strong adjacent frequency signal will cause receiver desensing which will result in audio reduction and possibly lost of the signal one's trying to hear. This can even happen with the best of CW filters especially when the signal is within a few hundred Hz of the receiving frequency, although not a severe as it is with a receiver that either has has no CW filter or a poor CW filter and no PASSBAND TUNING or IF SHIFT control.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Mike/Crit
>
> I suppose it's down to the user and how they view it.
>
> I use the R4C which is filtered up for both narrow and narrower CW - 2 filters. I also use the TR7 which has the standard SSB filter and the 1.8khz filter - (A & B)
>
> I prefer the R4C in CW terms (I am CW only) and I don't think audio is very important with CW.
>
> I don't often use the filters on the R-4C - as you said, the passband and notch take care of most situations
>
> One of these days I am going to pick up a mike, talk into it and see what happens!! Do they bite?
>
> Vic
>
> ----Original Message----
> From: w5rkl@...

> Date: 01/12/2008 14:11
> To: <DrakeRadio@yahoogroups.com>
> Subj: [DrakeRadio] Re: Any better rig?
>
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> Hello Crit,
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> Although I have operated a TR-7 many years ago I can't give a good
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> CW copy quite enjoyable. I once owned a B line and enjoyed the R4B. It
> had nothing else to buy, the all in one receiver as I called it. It
> too operated quite well on CW, although I preferred the R4C over the
> R4B. This is not to say the R4B is not a good receiver, it simply
> means I like the R4C. I must admit I should never have sold the B
> line. But, that's water under the bridge.
>
> 73
> Mike
> W5RKL
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> --- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@> wrote:
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> _____
> Cheap breaks from Tiscali - http://www.tiscali.co.uk/travel/
> _____
>
> [Non-text portions of this message have been removed]
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1576. Re: [DrakeRadio] TR-7A Mode Switch tight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 00:43:02 UTC
From: Chris Musselman
Topic: 1571 Message: 1576

Joel-

I have not had a problem with my TR-7 mode switch getting tight or hard to move, but I have cleaned other switches in equipment with electronic contact cleaner and lubricant. 73-

Chris W6ATV

--- On Tue, 12/2/08, Joel <v44kai@...> wrote:

> From: Joel <v44kai@...>
> Subject: [DrakeRadio] TR-7A Mode Switch thight
> To: DrakeRadio@yahoogroups.com
> Date: Tuesday, December 2, 2008, 11:41 AM
> Hi all on the group, (second time)
>
> A friend reported to me Today, that he has a hard time
> turning the mode
> switch, and it is gitting thighter the more he uses it.
> Anyone had this
> problem before? And how did you solved this issue?
>
> Your comment is important. Thanks in advanced.
>
> v44kai.....Joel.
>
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>
> No virus found in this outgoing message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.12/1824 - Release
> Date: 12/2/2008 9:31 AM
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1577. Re: [DrakeRadio] TR-7A Mode Switch tight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 02:03:17 UTC
From: v44kai
Topic: 1571 Message: 1577

Hi Chris,
Thanks for the suggestion, he is on another Island, and that is what i
suggested to him, will check with him and see what he did.

v44kai.....Joel.

----- Original Message -----
From: "Chris Musselman" <junkmailbox@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, December 03, 2008 7:43 PM
Subject: Re: [DrakeRadio] TR-7A Mode Switch tight

> Joel-
>
> I have not had a problem with my TR-7 mode switch getting tight or hard to
> move, but I have cleaned other switches in equipment with electronic
> contact cleaner and lubricant. 73-
>
> Chris W6ATV
>
> --- On Tue, 12/2/08, Joel <v44kai@...> wrote:
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>> From: Joel <v44kai@...>
>> Subject: [DrakeRadio] TR-7A Mode Switch thight
>> To: DrakeRadio@yahoogroups.com
>> Date: Tuesday, December 2, 2008, 11:41 AM
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>> Your comment is important. Thanks in advanced.
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>> v44kai.....Joel.
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>> Checked by AVG - http://www.avg.com

>> Version: 8.0.176 / Virus Database: 270.9.12/1824 - Release
>> Date: 12/2/2008 9:31 AM
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>>
>> [Non-text portions of this message have been removed]
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.13/1827 - Release Date: 12/3/2008
5:41 PM

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.13/1827 - Release Date: 12/3/2008 5:41 PM

[Non-text portions of this message have been removed]

1578. Posting on injection cable equivalents

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 15:29:33 UTC
From: captcurt2000
Topic: 1578 Message: 1578

A while back Garey B. posted a great piece on the equivalent capacitances of various standard coax for use as injection cables for the Drake 4 line--

Can someone point me to that article or date?

Thanks

Curt

KU8L

1579. Re: [DrakeRadio] Posting on injection cable equivalents

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 15:53:04 UTC
From: Garey Barrell
Topic: 1578 Message: 1579

Curt -

All original cables were 38" long tip-to-tip.

The INJ cable used a foam inner dielectric and phono connectors with a white insulation. This cable measures 60 pF total capacity.

All other cables used the standard for the day clear polyethelene inner dielectric and phenolic (brown) insulated phono connectors and measures ~100 pF.

Original Drake INJ Cable = 19 pF/ft = .160" o.d. (foam poly)

RG-62 = 93R = 13.5 pF/ft = 0.240" o.d.
RG-59 = 75R = 14.8 pF/ft = 0.242" o.d.
RG-6 = 75R = 16.2 pF/ft = 0.270" o.d.
RG-174= 50R = 30.8 pF/ft = 0.110" o.d.
Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
Mic Cable (Belden 8421) = Hi-Z = 16 pf/ft = 0.180" o.d. (foam poly)
R/S Audio Patch Cable = 28 pF/ft = 0.165" o.d. (poly)

The best choice is the Belden 8421 Audio cable from their "Brilliance" line. It looks just like the other cables, and is very flexible. The RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also prone to shorting if bent over too small a radius, and is susceptible to heat damage when soldering connectors. The best "feature" of RG-62 is that it is often FREE, since there have been many miles of it pulled out of old computer networks. Belden 8421 is available by the foot from ACK Electronics in Atlanta. Other distributors have it as well, although many require purchase of a full spool.

The only pertinent factor is the total capacity, impedance and "loss" are not important.

Any _reasonably low capacity_ coax will work if the units are cabled together for the adjustment of the INJ trimmers.

The cable type ONLY affects the LEVEL of the PreMix signal, (5.645 MHz ABOVE the transmit/receive frequency,) and a small DC control voltage between the two. If the shunt capacity is too high, insufficient LO level for the first mixer will reduce the sensitivity of the receiver and the output power of the transmitter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> A while back Garey B. posted a great piece on the equivalent
> capacitances of various standard coax for use as injection cables for
> the Drake 4 line--
>
> Can someone point me to that article or date?
>
> Thanks
>
> Curt
>
> KU8L
>
>
>

1580. Re: Posting on injection cable equivalents

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 16:42:10 UTC
From: captcurt2000
Topic: 1578 Message: 1580

Thanks again Garey:

What a tremendous resource!

I meant to print that when it first appeared but forgot.

I'm trying to get one of the AADE Drake displays to work at the higher bands. It is fine connected to just the tx or the rx but when the two are connected together, the level drops so it wont display.

When I connect the original inj cable to the rx, i get a noticeable drop in sensitivity of the rx.

I also see a drop when in transceive I switch from rx to tx control.

It doesnt seem to like the rg174 with bnc connectors at all--even re-tweaked with the inj trim. perhaps the added capacity of the bnc connectors is the problem. I'm going to try making up a harness without the bnc's using rg 58 or 59.

I've swapped v2 and v8 positions with no real difference.

all else works ok.

sensitivity difference is an s unit or two.

Thanks again for the info.

Curt

1581. AADE DFD1 Drake Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 20:15:30 UTC
From: captcurt2000
Topic: 1581 Message: 1581

Has anyone had experience using the AADE DFD1 digital display with r4a/t4x combo?

What did you use in the way of cable/connectors to get the injection signal into the display counter?

I'm having a problem due to low levels making the display quite sporadic above 7 Mhz.

I'm thin king it might be a good place for a simple MMIC amplifier at the rx to drive the display cable.

Thanks

Curt
KU8L

1582. My Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 21:09:31 UTC
From: kc2mru
Topic: 1582 Message: 1582

Hi Everyone ,
I have a question about my Drake TR-4 . I've been running it as my main radio for a little while now and to begin with the only problem I had with it was a weak 12AX7 tube , which I replaced . After that it ran fine for awhile ... until one night when it started keying itself up . :(

Since then I replaced the 6EV7 tube thinking that it was a weak VOX/Relay tube , but it's still keying itself up ... does anyone have any suggestions as to what would be causing this to happen ? I was told that the 12BY7A or the 6EJ7 may be leaking so I ordered a new one of each but they haven't arrived yet . I'm hoping this fixes it but just in case it doesn't I thought I'd ask here . Any help or information would be greatly appreciated, I love my Drake setup and hate not being able to use it .

1583. Re: MODERATE -- KC2MRU@aol.com posted to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-04 21:29:53 UTC
From: Garey Barrell
Topic: 1583 Message: 1583

The XMTR GAIN should not be over halfway, likewise the VOX GAIN shouldn't be more than 50%.

The 6EV7 is the first suspect in this sort of problem, but you have already replaced that! Assuming that this was a new tube, and good, the next step is to check the Bias supply in the AC-4. Voltage should be about -60 to -65VDC in the TR-4, with NO ripple.

Is the Idle current for the Final correct at 100 mA? Have you had to adjust it recently?

If the Bias supply is OK, the next suspect is C145B, which is one section of the Twist-Lok filter capacitor. This can be checked by paralleling a good cap of the same or larger capacitance and voltage ratings, or by using an ESR meter.

Beyond that, we're into checking resistor values in the VOX circuit, and other measurements.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

> Hi Everyone ,
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> that it ran fine for awhile ... until one night when it started keying
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> Since then I replaced the 6EV7 tube thinking that it was a weak
> VOX/Relay tube , but it's still keying itself up ... does anyone have
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> told that the 12BY7A or the 6EJ7 may be leaking so I ordered a new one
> of each but they haven't arrived yet . I'm hoping this fixes it but
> just in case it doesn't I thought I'd ask here . Any help or
> information would be greatly appreciated, I love my Drake setup and
> hate not being able to use it .
>

1584. Re: [DrakeRadio] My Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 01:09:47 UTC
From: rrkrr
Topic: 1582 Message: 1584

Delbert,
The 10 uF electrolytic capacitor connected to the cathode of the 6EV7, C145C, can cause this if it gets leaky. You might try replacing that. In fact, it's probably a good idea to replace all the electrolytic capacitors in your Drake if they are original.

Bob
K4ERR

kc2mru wrote:
>
> Hi Everyone ,
> I have a question about my Drake TR-4 . I've been running
> it as my main radio for a little while now and to begin with the only
> problem I had with it was a weak 12AX7 tube , which I replaced . After
> that it ran fine for awhile ... until one night when it started keying
> itself up . :(
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> Since then I replaced the 6EV7 tube thinking that it was a weak
> VOX/Relay tube , but it's still keying itself up ... does anyone have
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> of each but they haven't arrived yet . I'm hoping this fixes it but
> just in case it doesn't I thought I'd ask here . Any help or
> information would be greatly appreciated, I love my Drake setup and
> hate not being able to use it .
>
>

1585. 21.1 XTAL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 14:31:30 UTC
From: tnham63
Topic: 1585 Message: 1585

I put a 21.1 xtal in my R-4 for 30mters and the
dial reads 10.115 when zero beat with the calibrator
instead of 10.100. I double checked it on my T-4XC
and same thing. Why is it off 15khz?
Thanks
Wink
WA8KOQ

1586. CRYSTAL FOR R-4A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 14:40:14 UTC
From: vladreze
Topic: 1586 Message: 1586

Dear friends

Please, Where can I find to buy 12.6 MHz crystal (HC-6) to R-4A and other frequencies ?

Thanks

Vladimir - PY2ALR
Santos - Brazil

1587. 6HS6 test data

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 21:16:27 UTC
From: Chris Farley
Topic: 1587 Message: 1587

Hello all,

Does anyone have TV-7 test data for the type 6HS6 used in some Drake gear? Trying to get my newly acquired T-4XB running.

Vy73
Chris KC9IEQ

[Non-text portions of this message have been removed]

1588. Re: CRYSTAL FOR R-4A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 22:34:43 UTC
From: hetman45
Topic: 1586 Message: 1588

--- In DrakeRadio@yahoogroups.com, "vladreze" <vladreze@...> wrote:
>
> Dear friends
>
> Please, Where can I find to buy 12.6 MHz crystal (HC-6) to R-4A and
> other frequencies ?
>
> Thanks
>
> Vladimir - PY2ALR
> Santos - Brazil
>
Vladimir, I have an extra one on hand. Can you pay me via PayPal? 73,
Joel AE2JL

1589. Re: [DrakeRadio] 21.1 XTAL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-05 23:52:11 UTC
From: Jim Gerke
Topic: 1585 Message: 1589

It sounds like the crystal is not actually oscillating on 21.100 MHz.
You need to check it with a frequency counter.

-- Jim

tnham63 wrote:
> I put a 21.1 xtal in my R-4 for 30mters and the
> dial reads 10.115 when zero beat with the calibrator
> instead of 10.100. I double checked it on my T-4XC
> and same thing. Why is it off 15khz?
> Thanks
> Wink
> WA8KOQ
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> Yahoo! Groups Links
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1590. Re: [DrakeRadio] 21.1 XTAL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-06 01:05:09 UTC
From: Garey Barrell
Topic: 1585 Message: 1590

Wink -

Several possibilities..

Crystals are made for a specific load capacitance, i.e., the capacity they "see" when in circuit.

They are also made for either Series or Parallel operation, again meaning whether they are used in the Series resonant mode or their Parallel resonant mode.

Back in the old days, 32 pF and Parallel resonance were pretty much the "standard". I'm going from memory here, so may be wrong, but I believe Drake crystals are spec'd for a 20 pF load, and Series resonant. It's not something I need to know, because when I need a crystal, I just order it from International Crystal Mfg, and tell them it's for a Drake. When it comes in, it's on frequency!

One other variable is that crystals "age" with age (!) and typically drift up in frequency a small fraction of a percent per year depending upon how they were cut.

So.... Depending upon the source, specifications and age of the crystal you have, I'd say it's off it's marked frequency by 15 kHz due to some or all of the effects noted above.

One other thing. The T-4X(any) transmitters must NOT be used on 30M with a 21.1 MHz crystal!! Because of the frequencies running around in the transmitter, (and their second harmonics,) multiple spurious signals are generated when the PTO is set for operation the 10.100 to 10.150 range. The only "safe" crystal frequency for the Band Oscillator crystal in the transmitter is 20.8 MHz. The 21.1 crystal is ok for the receiver.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> I put a 21.1 xtal in my R-4 for 30mters and the
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> instead of 10.100. I double checked it on my T-4XC
> and same thing. Why is it off 15khz?
> Thanks
> Wink

> WA8KOQ
>
>

1591. Re: [DrakeRadio] 6HS6 test data

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-06 03:30:17 UTC
From: Garey Barrell
Topic: 1587 Message: 1591

Chris -

6HS6 6.3 ET1-5627 11 - D 3 28 40

The 6AU6 or 6AH6 will work as a sub. Not quite as good a mixer, but usually ok for PreMixer.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chris Farley wrote:
> Hello all,
>
> Does anyone have TV-7 test data for the type 6HS6 used in some Drake gear? Trying to get my newly acquired T-4XB running.
>
>
> Vy73
> Chris KC9IEQ
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.14/1832 - Release Date: 12/5/2008 9:57 AM
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1592. Re: [DrakeRadio] Re: TR-7 T/R Thump - update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-06 11:16:32 UTC
From: Lars E. Pettersson
Topic: 1510 Message: 1592

Hi Al,

On 11/29/2008 01:37 AM, Al Scanandoah wrote:
> I finally got a chance to dig into the radio this week. Sure enough,
> R1187 did not exist; not even a place on the PWB for it to go. I
> lifted one leg of CR1119 and inserted a 10k resistor in series.

I just went through my service manuals for the TR7 and noticed that in
the early one R1187 did not exist, in an intermediate one, it was there,
and looking at the photograph of the card, it seemed as if they had done
just what you have done, lifted the leg of CR1119 and added the R1187.
In the latest manual R1187 had a place on the PCB.

I.e. it seems as if this was a fix made early in the production of the TR7

Could be interesting to know when this fix appeared in the TR7 series.
So what serial number does your TR7 have? And for others that miss the
R1187 resistor, what serial number does your TR7 have?

73 de Lars, sm6rpz
--
Lars E. Pettersson <lars@...>
http://www.sm6rpz.se/

1594. Re: [DrakeRadio] Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 04:34:43 UTC
From: rrkrr
Topic: 1593 Message: 1594

You probably want to start with the power supply rebuild kit from The Heathkit Shop:
http://www.sunlightenergysystems.com/theheathkitshop/index.html
(Apparently the website is currently being updated, but trust me, they have a first rate rebuild kit for the Drake AC-3/AC-4 power supply)
I don't know of anyone that is advertising up complete recap kits for the TR-4, but I would start by replacing the electrolytics, then the paper (non-ceramic) caps; then any silver micas that have a lot of DC voltage across them.

Bob
K4ERR

kc2mru wrote:
>
> Hi everyone ,
> My Drake TR-4 is 100% original inside and out and I'm
> looking to do a Recap to it . Does anyone know a good place to order a
> recap kit for the Drake TR-4 ? Thanks
>
>

1595. Hi, I'm a new member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-06 16:38:47 UTC
From: Arthur Gerstein
Topic: 1595 Message: 1595

Hi everybody,

I just joined this group to learn more about the Drake SW8. I am an avid SW listener, and here is a partial listing of my radio collection:

Sony:
CRF-320, 6800, 6700, 2010, TFM 1600, TFM 1000 WB, SW-1S, SW-07, SW 55, SW 77 and a variety of small Sony radios...

Grundig Satellits:
210, 205, 2100, 3400, 300, 400, 500, 700, 800 (somewhat similar electronically to SW8)

Eton:
E-1, S350, S350DL

Panasonic:
RF-B65, RF-B40

Although I had been using all my radios on their internal whip antennae, I recently purchased a Wellbrook Loop to enhance my receiving.

Looking forward to hearing from the group.

Regards,
Arthur

[Non-text portions of this message have been removed]

1596. Re: [DrakeRadio] Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 16:01:32 UTC
From: Garey Barrell
Topic: 1593 Message: 1596

Try Tom at

<tom@...>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kc2mru wrote:
> Hi everyone ,
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> recap kit for the Drake TR-4 ? Thanks
>
>
>

1597. Re: [DrakeRadio] Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 16:04:07 UTC
From: Garey Barrell
Topic: 1593 Message: 1597

You'll also want to do a recap of the AC-4 with the AC-4R from

<http://www.theheathkitshop.com/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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kc2mru wrote:
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> recap kit for the Drake TR-4 ? Thanks
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>
>
>

1599. Re: [DrakeRadio] Re: Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 16:23:35 UTC
From: Garey Barrell
Topic: 1593 Message: 1599

Del -

Same answer! The AC-4R can be used for the AC-3. The supply is
essentially the same.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kc2mru wrote:
> Actually I have the MS-4 speaker and the AC-3 power supply , so I
> would need some sort of an update idea for the AC-3 .
>
> Thanks,
> Del
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> You'll also want to do a recap of the AC-4 with the AC-4R from
>>
>> <http://www.theheathkitshop.com/page6/page6.html>
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> kc2mru wrote:
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>>> looking to do a Recap to it . Does anyone know a good place to order a
>>> recap kit for the Drake TR-4 ? Thanks
>>>
>>>

1600. Re: Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 16:31:47 UTC
From: w5rkl
Topic: 1593 Message: 1600

As Bob said, start with the power supply, whether it be the AC3 or AC4. The Heathkit Shop, as Bob stated, is one source to replace the caps, diodes, and resistors with a complete kit.

As for the TR4 itself, in most cases, the only capacitors you "might" need to replace are C145A/B/C (20/60/10ufd), triple capacitor can behind the right front panel and C135. Notice I said you "might" need to replace. This doesn't mean you should replace them. In most cases, unless the TR4 is showing signs of instability you more than likely will not have to replace these caps. In addition, unless the mica and disc caps show signs of physical or overheating damage and the TR4 shows signs of instability, then I doubt you will need to replace any of the disc and mica caps. Resistors, over times and use, do change values. However, again, if the TR4 is operating properly, then most likely you will not need to change resistors.

If you replaced the power supply capacitors, resistors, and diodes, set the bias as instructed in the manual, and the TR4 appears to be operating properly then there's nothing else you need to do other than enjoy the radio. I do recommend, however, to check the final neutralization by following the manual's neutralization section.

A fan installed on the rear of the final cage is a highly recommended addition. As you may have found out, the final cage can great quite warm during normal operation. A small 12VDC muffin fan mounted on the rear of the final cage powered by a 1/2 wave rectifier from the filament supply under the chassis will do wonders at keeping the final's cool. Of course, if you chose to place a fan on the top of the final cage powered by a separate 12VDC supply, that too will work. The only difference is a fan powered off of the TR4's filament supply through a 1/2 wave rectifier circuit is controlled by the TR4's power switch. Your choice.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, rrkrr <rrkrr@...> wrote:
>
> You probably want to start with the power supply rebuild kit from The
> Heathkit Shop:
> http://www.sunlightenergysystems.com/theheathkitshop/index.html
> (Apparently the website is currently being updated, but trust me, they
> have a first rate rebuild kit for the Drake AC-3/AC-4 power supply)
> I don't know of anyone that is advertising up complete recap kits for
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> voltage across them.
>
> Bob
> K4ERR
>
> kc2mru wrote:
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> > recap kit for the Drake TR-4 ? Thanks
> >
> >
>

1601. [DrakeRadio]

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 16:41:56 UTC
From: res1q6fs
Topic: 1601 Message: 1601

I also have the AC4R rebuild assy. and it is indeed first class looking. I have not installed it yet and will probably wait until I "have to". I had one supply for my first T4XC explode years ago, so I am somewhat experienced in the experience!

Roger W5RDW
Murphy, Texas
----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 07, 2008 10:31 AM
Subject: [DrakeRadio] Re: Drake TR-4

As Bob said, start with the power supply, whether it be the AC3 or AC4. The Heathkit Shop, as Bob stated, is one source to replace the caps, diodes, and resistors with a complete kit.

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A fan installed on the rear of the final cage is a highly recommended addition. As you may have found out, the final cage can great quite warm during normal operation. A small 12VDC muffin fan mounted on the rear of the final cage powered by a 1/2 wave rectifier from the filament supply under the chassis will do wonders at keeping the final's cool. Of course, if you chose to place a fan on the top of the final cage powered by a separate 12VDC supply, that too will work. The only difference is a fan powered off of the TR4's filament supply through a 1/2 wave rectifier circuit is controlled by the TR4's power switch. Your choice.

73
Mike
W5RKL

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>
> Bob
> K4ERR
>
> kc2mru wrote:
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> >
> >
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.15/1833 - Release Date: 12/5/2008 7:08 PM

[Non-text portions of this message have been removed]

1603. Re: [DrakeRadio] Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 17:53:09 UTC
From: Garey Barrell
Topic: 1593 Message: 1603

Del -

As usual, you'll get more than a few opinions on this type of question.

Bob and Mike have covered the subject, and I agree with some of both! (Also typical!)

The AC-4R is the place to start, I think we all agree on that. It is a little more problematic to
adapt it to the AC-3 because of the physical layout, but unless you have one of the very first
AC-3s, (the one with the big choke on top of the chassis,) the AC-4R will adapt quite nicely. What
you DON'T want is for the Bias supply to fail in the AC-3, because if it does, the PA tubes,
components, power supply and window curtains are all at risk, even if the transceiver is sitting in
receive mode when the failure occurs!!

While many of the AC-(any) power supplies are working today with the original filter caps, 30-40
years after manufacture, the fact is they are all living on borrowed time! Reliability engineers
figure 10 year life for electrolytic capacitors in power supplies, which while being conservative,
is still a long way from 30+ years. While measurement with an ESR meter (or at least ripple
magnitude with a scope) can give you some assurance of the general condition of electrolytics,
without either or both of those tests you are playing Russian roulette. Some electrolytic caps fail
gracefully, i.e., the electrolytic evaporates, the capacitance goes toward zero and the radio emits
a loud hum to announce the demise. BUT, a good percentage of electrolytic caps fail by shorting,
and there are several things that happen when an electrolytic capacitor shorts out, none of them
good! So unless you have measured their apparent condition and are satisfied that at least for
today they are OK, it's best to replace them.

I have worked on a LOT of Drake equipment over the last 50 years, and I have yet to find either a
film or mica capacitor that has failed, UNLESS it has been damaged by either a hot soldering iron
being applied to the SIDE of it, or had it's lead(s) pulled out of the body by excessive mechanical
force. I HAVE seen a very few ceramic disc caps that have failed with no apparent damage,

although
they may have been overheated by excessive soldering times or tools. Some resistors, especially
very high resistance (2 - 20 Meg), are found to have increased in value. This happens infrequently
enough that it's reasonable to wait to replace them when they cause an operational problem. These
failures are not catastrophic, but usually show up as slow VOX release times and other annoyances
that finally get bad enough to require attention.

My process with a "new" piece of equipment is to first check the fuse-holder(s) to ensure that the
correct fuse is installed, (and not a piece of #6 copper wire cut to length,) check the ESR of all
electrolytics, and if all looks good, turn it on. Assuming no untoward noises or smells and
apparently nominal operation, proceed to make voltage checks per the table in most manuals. While
these voltages are not always "correct", (Drake didn't always change the voltage charts when circuit
changes were made...,) if a number is too far out of line you can usually find out why by looking at
the associated circuitry. If not, then further troubleshooting, resistor value checks, etc. are in
order. Next, an alignment is performed, and any adjustment that is WAY out of where it should be
indicates that something may have changed and should be investigated further, rather than just
"adjusting it out".

Certainly any of the Drake tube type transmitters benefit greatly from the addition of a small fan
on the top or back of the PA cage, blowing OUT. It doesn't take a LOT of air, just a gentle, quiet
breeze to assist the designed convection cooling AND to move the exhaust air away from the area.
What fan you use and how you power it is purely a matter of convenience and/or what you find at the
hamfest.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kc2mru wrote:
> Hi everyone ,
> My Drake TR-4 is 100% original inside and out and I'm
> looking to do a Recap to it . Does anyone know a good place to order a
> recap kit for the Drake TR-4 ? Thanks
>

>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.15/1834 - Release Date: 12/6/2008 4:55 PM

[Non-text portions of this message have been removed]

1604. Re: [DrakeRadio] Re: Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 17:55:45 UTC
From: Garey Barrell
Topic: 1593 Message: 1604

Del -

This behavior is quite likely the result of either a failing bias supply
in the AC-3, or a resistor increased in value. Or section C145_B_ of
the internal electrolytic.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kc2mru wrote:
> "This doesn't mean you should replace them. In most cases,
> unless the TR4 is showing signs of instability you more than likely
> will not have to replace these caps."
>
> The rig has been working fine until about a week or 2 ago , it's
> keying itself up without any warning . I thought I had it fixed the
> other day , I turned it on and just let it set there for 8 hours and
> it never once keyed up . Then yesterday , I hooked it back up on the
> desk and it keyed up as soon as I turned it on . I replaced the 12BY7A
> and 6EJ7 tubes , turned it back on and it seemed to be working fine
> again . I tried to key up and talk with a friend and it wouldn't unkey
> . It acts like a VOX related problem , if I whistle while it's keyed
> up I can see the meter move . I'm starting to get tired of trying to
> track down it's problem , I like the radio though ... so I keep trying
> . I thought that maybe replacing the C145C electrolytic capacitor
> might take care of the problem ... and if I was doing that I might as
> well do the others while I'm at it . If anyone might be able to help
> figure this out it'd be appreciated .
>
> Thanks, Del
>
>

1605. Replacement Electrolytic Capacitors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 18:09:56 UTC
From: Garey Barrell
Topic: 1605 Message: 1605

Tom has updated his website to show at least part of the line of replacement electrolytic capacitor kits that he offers for Drake and other equipment.

These caps are attractive and well designed, having the same basing style as the originals and 105 degree C rated capacitors, and reasonably priced.

<http://www.hayseedhamfest.com/capkit.htm>

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1606. Re: [DrakeRadio] Drake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 18:11:00 UTC
From: res1q6fs
Topic: 1593 Message: 1606

I agree the adding of a small fan to keep the air moving. I have added a very neat 2 fan assy inside my KWM-2 that I saw at a local hamfest and have since ordered from a ham down near Houston who is building these (also for 32S transmitters). They are really neat looking and in my opinion look like factory. They are easily installed w/o altering the stock appearance and easily removed. Maybe one can look at these and get an idea of what I am talking about. I have added a pic of this in the Drake Group pics.

Roger W5RDW
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 07, 2008 11:53 AM
Subject: Re: [DrakeRadio] Drake TR-4

Del -

As usual, you'll get more than a few opinions on this type of question.

Bob and Mike have covered the subject, and I agree with some of both! (Also typical!)

The AC-4R is the place to start, I think we all agree on that. It is a little more problematic to
adapt it to the AC-3 because of the physical layout, but unless you have one of the very first
AC-3s, (the one with the big choke on top of the chassis,) the AC-4R will adapt quite nicely. What
you DON'T want is for the Bias supply to fail in the AC-3, because if it does, the PA tubes,
components, power supply and window curtains are all at risk, even if the transceiver is sitting in
receive mode when the failure occurs!!

While many of the AC-(any) power supplies are working today with the original filter caps, 30-40
years after manufacture, the fact is they are all living on borrowed time! Reliability engineers
figure 10 year life for electrolytic capacitors in power supplies, which while being conservative,
is still a long way from 30+ years. While measurement with an ESR meter (or at least ripple magnitude with a scope) can give you some assurance of the general condition of electrolytics,
without either or both of those tests you are playing Russian roulette. Some electrolytic caps fail
gracefully, i.e., the electrolytic evaporates, the capacitance goes toward zero and the radio emits
a loud hum to announce the demise. BUT, a good percentage of electrolytic caps fail by

shorting,
and there are several things that happen when an electrolytic capacitor shorts out, none of them
good! So unless you have measured their apparent condition and are satisfied that at least for
today they are OK, it's best to replace them.

I have worked on a LOT of Drake equipment over the last 50 years, and I have yet to find either a
film or mica capacitor that has failed, UNLESS it has been damaged by either a hot soldering iron
being applied to the SIDE of it, or had it's lead(s) pulled out of the body by excessive mechanical
force. I HAVE seen a very few ceramic disc caps that have failed with no apparent damage, although
they may have been overheated by excessive soldering times or tools. Some resistors, especially
very high resistance (2 - 20 Meg), are found to have increased in value. This happens infrequently
enough that it's reasonable to wait to replace them when they cause an operational problem. These
failures are not catastrophic, but usually show up as slow VOX release times and other annoyances
that finally get bad enough to require attention.

My process with a "new" piece of equipment is to first check the fuse-holder(s) to ensure that the
correct fuse is installed, (and not a piece of #6 copper wire cut to length,) check the ESR of all
electrolytics, and if all looks good, turn it on. Assuming no untoward noises or smells and
apparently nominal operation, proceed to make voltage checks per the table in most manuals. While
these voltages are not always "correct", (Drake didn't always change the voltage charts when circuit
changes were made...,) if a number is too far out of line you can usually find out why by looking at
the associated circuitry. If not, then further troubleshooting, resistor value checks, etc. are in
order. Next, an alignment is performed, and any adjustment that is WAY out of where it should be
indicates that something may have changed and should be investigated further, rather than just
"adjusting it out".

Certainly any of the Drake tube type transmitters benefit greatly from the addition of a small fan
on the top or back of the PA cage, blowing OUT. It doesn't take a LOT of air, just a gentle, quiet
breeze to assist the designed convection cooling AND to move the exhaust air away from the area.
What fan you use and how you power it is purely a matter of convenience and/or what you find at the

hamfest.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kc2mru wrote:
> Hi everyone ,
> My Drake TR-4 is 100% original inside and out and I'm
> looking to do a Recap to it . Does anyone know a good place to order a
> recap kit for the Drake TR-4 ? Thanks
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[Non-text portions of this message have been removed]

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Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.15/1834 - Release Date: 12/6/2008 4:55 PM

[Non-text portions of this message have been removed]

1607. Newbie (to the group, at least)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 19:43:43 UTC
From: Gary Woods
Topic: 1607 Message: 1607

Referred by folks from the boatanchor group.
After several years of idleness, my TR-7 isn't working. I'll ask questions once I've done some digging and can ask rationally.
In the meantime, what's a good source for extender boards for this radio. Google came up with WB4HFN's page, which looks pretty good, considering the original kit is made of unobtanium.
I did replace a shorted tantalum in the +10 supply; unfortunately, the radio still doesn't work. Sounds like a synth problem, since there's normal background noise, so the gain stages seem alive. I'd like to do some bench work with the extenders before asking further.... I do have the service manual.
When alive, the TR-7 either runs barefoot, or drives a Viking desk pedestal KW through a 6db pad.

Thanks,

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/6 in upstate New York, 1420' elevation. NY WO G

1608. Re: 21.1 XTAL/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 20:24:13 UTC
From: tnham63
Topic: 1585 Message: 1608

Thanks to all for the replies,
A note from our friend Bill Frost gave me the answer
as well. I had two 21.1 xtals and one of them I remember
worked in the T-4XC before so I switched them out, and sure
enough it worked fine in the T-4XC.
Turns out the R-4 requires parallel resonant crystal
and the T-4XC a series resonant crystal....
I never knew this and I don't know how you would be
able to determine it when buying one on the internet.
Just take a chance. This is first time I've gotten one
that did not work correctly, but it is close enough.
Thought you all might like to know this info.
73
WINK
WA8KOQ
>

1609. Drake Extender boards Attn:K2AHC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 21:36:23 UTC
From: Don
Topic: 1609 Message: 1609

I just got off the phone with Bob ROLFNESS, W7AVK. He has managed to get enough parts together for a few more kits, so Bob now has 20 Drake Service kits ready to ship. The cost of a kit is $60 plus postage. In the USA and using priority mail the total cost is $64.80. I purchased one of his kits about 4 years ago and have been very happy with it. I did have to trim the edges on a couple of the boards so they would fit side-by-side, otherwise they have been great.
Bob gave permission to post his info here for any who might like a set.
His e-mail : W7AVK@... which is also his paypal address.
He may be contacted by phone at : [509] 750-7589.

Don
AD7LL
http://www.srcisra.org/

----- Original Message -----
From: Gary Woods
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 07, 2008 12:43 PM
Subject: [DrakeRadio] Newbie (to the group, at least)

Referred by folks from the boatanchor group.
After several years of idleness, my TR-7 isn't working. I'll ask questions once I've done some digging and can ask rationally.
In the meantime, what's a good source for extender boards for this radio. Google came up with WB4HFN's page, which looks pretty good, considering the original kit is made of unobtanium.
I did replace a shorted tantalum in the +10 supply; unfortunately, the radio still doesn't work. Sounds like a synth problem, since there's normal background noise, so the gain stages seem alive. I'd like to do some bench work with the extenders before asking further.... I do have the service manual.
When alive, the TR-7 either runs barefoot, or drives a Viking desk pedestal KW through a 6db pad.

Thanks,

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/6 in upstate New York, 1420' elevation. NY WO G

[Non-text portions of this message have been removed]

1610. Re: [DrakeRadio] Re: 21.1 XTAL/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-07 22:52:22 UTC
From: Garey Barrell
Topic: 1585 Message: 1610

Wink -

Good that Bill is keeping an eye on us!!

By the way, the R-4 is the ONLY version that is parallel resonant
because it is the only one with a tube based Band Oscillator. All the
others, R-4A - R-4C and all the T-4(any) transmitters have a solid-state
Band Oscillator that uses series resonant crystals...

But you still do NOT want to use that 21.1 crystal in the T-4X(any)!!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Thanks to all for the replies,
> A note from our friend Bill Frost gave me the answer
> as well. I had two 21.1 xtals and one of them I remember
> worked in the T-4XC before so I switched them out, and sure
> enough it worked fine in the T-4XC.
> Turns out the R-4 requires parallel resonant crystal
> and the T-4XC a series resonant crystal....
> I never knew this and I don't know how you would be
> able to determine it when buying one on the internet.
> Just take a chance. This is first time I've gotten one
> that did not work correctly, but it is close enough.
> Thought you all might like to know this info.
> 73
> WINK
> WA8KOQ
>

1611. Fw: Drake Service Kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-08 00:09:54 UTC
From: Don
Topic: 1611 Message: 1611

----- Original Message -----
From: Bob W7AVK
To: Don
Sent: Sunday, December 07, 2008 3:06 PM
Subject: Re: Drake Service Kit

Hi Don - Thanks for the call, enjoyed the chat.

Here is a canned message I send when information about the kit is requested by a CONUS ham. Feel free to reference Ron Baker's wb4hfn outstanding DRAKE web site or my home phone, email, etc. Was having ISP troubles and Ron agreed to moved my kit page to his site to have more of the TR-7 data in one place.

73 Bob W7AVK

Thanks for the note and interest in the kit. Congratulations on the TR-7, its a fun radio.

Yes, I have been supplying a set of Extender Boards and the DIGITAL JUMPER card supporting the Drake TR-7 and R-7 for the last eight years. You might check http://wb4hfn.com/Services/W7AVK/tr7ext2.htm for more information if you have not already seen it. The cost is $64.80 which includes priority postage.

You can either send a check or mo to the address below or use paypal as I've just joined it. If you go the paypal option please send $67.10 as they charge the seller for their transfer service. My paypal id is w7avk@....

I have several kits completed, tested, boxed, and ready to mail. Attached is a photo of the extender boards in operation. The kit is complete except for four small plastic tuning tools which I figured most of us had already so didn't supply to save cost. I also don't supply the card extender tool. Its used only for and came with the DR-7 Digital Readout board which was originally an option and is almost not needed being a U shaped coat hanger wire with a hook in each end.

My address is:

Bob Rolfness, W7AVK
5581 Panorama Drive NE
Moses Lake, WA 98837
509-750-7589

Good luck with a great radio.

Don wrote:
Thanks for the nice Phone conversation !
As I mentioned, I'll post the information on the
DrakeRadio reflector.

Don
AD7LL
http://www.srcisra.org/

[Non-text portions of this message have been removed]

1612. INK FOR DRAKE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-08 14:20:58 UTC
From: Vladimir
Topic: 1612 Message: 1612

Dear friends

I need to repaint several scratches on my R-4A and T-4X. Anybody know if is there to sell the same type of black ink, but in the spray can?

Thanks

Vladimir - PY2ALR

[Non-text portions of this message have been removed]

1613. Re: [DrakeRadio] Drake Extender boards Attn:K2AHC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-11 20:46:58 UTC
From: Gary Woods
Topic: 1609 Message: 1613

On Sun, 7 Dec 2008 14:36:23 -0700, you wrote:

> I just got off the phone with Bob ROLFNESS, W7AVK. He has managed to get enough parts together for a few more kits, so Bob now has 20 Drake Service kits ready to ship.

An unsolicited testimonial: I ordered the kit, and it arrived today.
Everything looks very very nice, and the instructions that came with it
are worth the price of admission. I'll be cleaning all the connectors, and
figuring out why the +10 won't adjust below 10.3 before I start active
troubleshooting. Then if I hit the wall, I'll look for advice here.

Thanks,

Gary Woods O- K2AHC Public keys at home.earthlink.net/~garygarlic, or get 0x1D64A93D via keyserver
fingerprint = E2 6F 50 93 7B C7 F3 CA 1F 8B 3C C0 B0 28 68 0B

1614. transceive drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-12 16:47:29 UTC
From: captcurt2000
Topic: 1614 Message: 1614

Anyone with experience improving the transceive offset drift in
R-4a/T4x pairs?

Its fine after a long warm-up but seems to change day to day. I've
been thinking of putting an extension on C-61 and a knob on top of the rx!

Would replacing the trimmer with a very high quality piston type
improve this at all or is it all the problem of two different crystals
drifting as they warm up?

I've pretty much decided to build a DDS-based VFO that would feed both
the rx and tx. I could also do a tcxo based "xtal replacer" and
supply both the 5595 and 5645 freqs from a common base. (I think I can
at least.

Not easy, but it could all be external.

Why would I do this?

Frequency stability and accuracy is very important for WSPR and JT65
modes in particular. In all other respects, the pair is working
fine--including other digital modes not quite as susceptible to
frequency inaccuracies.

Thanks

Curt
KU8L

1615. Re: [DrakeRadio] transceive drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-12 16:58:26 UTC
From: Garey Barrell
Topic: 1614 Message: 1615

Curt -

See my article at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/CrystalCodes.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Anyone with experience improving the transceive offset drift in
> R-4a/T4x pairs?
>
> Its fine after a long warm-up but seems to change day to day. I've
> been thinking of putting an extension on C-61 and a knob on top of the rx!
>
> Would replacing the trimmer with a very high quality piston type
> improve this at all or is it all the problem of two different crystals
> drifting as they warm up?
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> I've pretty much decided to build a DDS-based VFO that would feed both
> the rx and tx. I could also do a tcxo based "xtal replacer" and
> supply both the 5595 and 5645 freqs from a common base. (I think I can
> at least.
>
> Not easy, but it could all be external.
>
> Why would I do this?
>
> Frequency stability and accuracy is very important for WSPR and JT65
> modes in particular. In all other respects, the pair is working
> fine--including other digital modes not quite as susceptible to
> frequency inaccuracies.
>
> Thanks
>
> Curt
> KU8L
>
>

1616. Re: transceive drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 01:09:19 UTC
From: captcurt2000
Topic: 1614 Message: 1616

Thanks Garey:

I remember reading that article a while ago but didn't remember where I'de seen it.

I have a "B: T4X and a "Y" R-4a

Next time they're open, I'll check for the color marks. I'll have to get busy and come up with a new first-born to get a pair of those crystals from Int'l I think ;)

Curt
KU8L

1617. Re: [DrakeRadio] Re: transceive drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 02:26:10 UTC
From: Garey Barrell
Topic: 1614 Message: 1617

Curt -

Yeah, there were some Yellow ones. MOST of what I have seen over the last 40 years have been Blue or Green, with fewer Red, and I believe only one Yellow. Kinda makes me think they were out-liers and probably worst case slopes.

When I was using the R-4/A and T-4X on Autostart RTTY (14.075 MHz) 24/7 back in the 60's, I used an International Crystal High Stability crystal to Crystal Lock the receiver, and let that control the transmitter. The receiver would sit on frequency for weeks, and the transmitter could be "fine-tuned" with the RF TUNE to keep it steady. The transmitter would stay for several days to a week as long as the room temp stayed constant. The fan on the back of the Final cage kept the internal temperature steady, with no fan the transmitter frequency would shift enough from standby to transmit to be problematic. Of course I ran full power, 130W or so with transmissions sometimes in excess of 30 minutes.

Xcelite makes a 6" screwdriver about the size of the pocket clip line, green handle. I had one of those for a while that I had cut off about a quarter inch of the handle on the blade end. The blade was small enough to fit through the existing perf in the cabinet top, and with the handle trimmed was able to reach C61. A piece of heat-shrink tubing over the C61 adjustment screw kept the blade in the slot. Fun times! :-)

You might check with ICM. Their standard crystals are good enough that they might be plenty stable enough at only 5.5 MHz. The crystals we used for Crystal lock were are 18-19 MHz, and were from a line that had a near zero tempco over a typical room temperature range.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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captcurt2000 wrote:
> Thanks Garey:
>
> I remember reading that article a while ago but didn't remember where
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> I have a "B: T4X and a "Y" R-4a
>
> Next time they're open, I'll check for the color marks. I'll have to
> get busy and come up with a new first-born to get a pair of those
> crystals from Int'l I think ;)

>
> Curt
> KU8L
>
>

1618. (no subject)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 03:41:07 UTC
From: john
Topic: 1618 Message: 1618

[Body unavailable in the source archive]

1619. Loud hum...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 13:10:12 UTC
From: daver_06441
Topic: 1619 Message: 1619

Hello to all,

My R4 receiver when I first got it a month or two ago had a very slight hum which has now gotten very bad and can't use the receiver. To hear anything at all I turn the AGC off and when I tune in a signal it is very garbled. I am assuming it is in the p/s so my question to all is which caps should I look to replace and are these caps available? I have to download a schematic from The WB4HFN site since the receiver had none. Any help would be greatly appreciated. Thanks in advance to any that reply.

73,

Dave KW1V
kw1v@...

1620. Re: [DrakeRadio] Re: TR-7 T/R Thump - update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 13:26:49 UTC
From: Al Scanandoah
Topic: 1510 Message: 1620

Lars

The serial number is 3827, but I suspect that the IF/Audio board is older than that. When I obtained this rig a few months back, it was in pretty rough shape, and displayed evidence of being worked on many times.

Al, K2ZN

Lars E. Pettersson wrote:
> Hi Al,
>
> On 11/29/2008 01:37 AM, Al Scanandoah wrote:
>> I finally got a chance to dig into the radio this week. Sure enough,
>> R1187 did not exist; not even a place on the PWB for it to go. I
>> lifted one leg of CR1119 and inserted a 10k resistor in series.
>
> I just went through my service manuals for the TR7 and noticed that in
> the early one R1187 did not exist, in an intermediate one, it was there,
> and looking at the photograph of the card, it seemed as if they had done
> just what you have done, lifted the leg of CR1119 and added the R1187.
> In the latest manual R1187 had a place on the PCB.
>
> I.e. it seems as if this was a fix made early in the production of the TR7
>
> Could be interesting to know when this fix appeared in the TR7 series.
> So what serial number does your TR7 have? And for others that miss the
> R1187 resistor, what serial number does your TR7 have?
>
> 73 de Lars, sm6rpz

1621. Re: [DrakeRadio] Loud hum...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-13 14:54:15 UTC
From: W0TQ
Topic: 1619 Message: 1621

Dave,

look at

http://www.hayseedhamfest.com/capkit.htm

73 Lou W0TQ

daver_06441 wrote:
>
> Hello to all,
>
> My R4 receiver when I first got it a month or two ago had a very
> slight hum which has now gotten very bad and can't use the receiver.
> To hear anything at all I turn the AGC off and when I tune in a signal
> it is very garbled. I am assuming it is in the p/s so my question to
> all is which caps should I look to replace and are these caps
> available? I have to download a schematic from The WB4HFN site since
> the receiver had none. Any help would be greatly appreciated. Thanks
> in advance to any that reply.
>
> 73,
>
> Dave KW1V
> kw1v@... <mailto:kw1v%40snet.net>
>
>

[Non-text portions of this message have been removed]

1622. Which Amplifiers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-14 02:57:58 UTC
From: jch39_99
Topic: 1622 Message: 1622

Thinking of adding an amplifier to my station. Never had one before.
Only looking for power out in the 500 - 700 watt range.
Besides the L7 and the L75 what other Drake amps will work with the TR-7?
Any non-Drake amps a good match for the TR-7?
What should I look out for when getting an amp for my TR-7?
Tnx/73
Crit/K4BXN

1623. Re: [DrakeRadio] Which Amplifiers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-14 03:28:55 UTC
From: Dan Galligan
Topic: 1622 Message: 1623

I am very happy with my Alpha 374A. I run it with a "B" Line, but it is far more modern than the "B" Line, and should work well with a TR-7. Back off the TR-7's output power, to arrive at your desired final output power, with one of these babies. But, most anyone here will tell you, you can't go wrong with an Alpha.

Dan

1626. Re: Which Amplifiers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-15 00:44:41 UTC
From: Dean Hemphill
Topic: 1622 Message: 1626

I really like my Ameritron AL-80B. It uses a single 3-500ZG tube. Max power output is in the 750 Watt range, which is plenty. The amp runs very well on 125 VAC, I might add, so if you don't have 240 VAC in your shack, that could be a consideration. Their nifty instantaneous bias circuit means that the tube draws virtually no idle plate current, so it runs much cooler than other 3-500Z amps, puts less stress on its power supply, and is also more energy-efficient. My amp saturates at about 65 Watts of drive.

You can pick up a nice used AL-80B in the $800 to $850 range. I got mine for $825 and have had no trouble with it whatsoever.

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Thinking of adding an amplifier to my station. Never had one before.
> Only looking for power out in the 500 - 700 watt range.
> Besides the L7 and the L75 what other Drake amps will work with the TR-7?
> Any non-Drake amps a good match for the TR-7?
> What should I look out for when getting an amp for my TR-7?
> Tnx/73
> Crit/K4BXN
>

1627. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-15 09:24:36 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1627

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1628. TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-15 13:52:28 UTC
From: DALE PARFITT
Topic: 1628 Message: 1628

I have finally had an opportunity to use my TR-4CW/RIT in AM (before installing a switched 6KHz Inrad filter) and find plate current peaks only about 100mA at best. Resting Ip is very, very low- but perhaps that is the way it was designed. The manual warns to limit peaks to 200-250mA- no way I can approach that level. Low power out. I will be trying another screen modulator tube- anyone have an idea if I should be looking elsewhere? Works FB on SSB/CW.

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1629. Re: TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-15 22:50:11 UTC
From: w5rkl
Topic: 1628 Message: 1629

Hello Dale,

Drake uses controlled carrier screen modulation in AM. Controlled Carrier Screen Modulation operates similar to single sideband but with a small amount of carrier until modulation is applied, hence "controlled carrier". In AM, a voltage is applied to the balance modulator to cause it to become slightly "unbalanced". This slight unbalancing of the balance modulator allows the carrier generator signal to appear at the output of the balance modulator and to the other circuits that follow. At the same time the AM modulator tube holds the driver tube's screen voltage at a lower voltage resulting in a reduction in the RF drive to the final tubes, hence low idling output power in AM.

Speaking into the microphone causes the balance modulator to become "more" unbalanced, just as in single sideband suppressed carrier, allowing a variable increase in the carrier generator's RF signal level to flow through the balance modulator and on to the other circuits. At the same time, the AM modulator tube also varies the driver tube's screen voltage causing the driver tube's output to vary at the same rate as the audio applied to the balance modulator.

As in sideband, the level of audio output from the speech amplifier's output applied to the balance modulator and, in the case of AM, the AM modulator tube, determines the level of RF output from the final amplifier. Therefore, you might try increasing the MIC gain setting slightly. However, having said that, do not increase the MIC gain setting too much as this will create distortion in the output signal just as in sideband.

In most, but not all, controlled carrier screen modulated AM transmitters, especially in the case of Drake transmitters/transceivers, AM is transmitted in the LSB only, not both sidebands.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "DALE PARFITT" <parinc1@...> wrote:
>
> I have finally had an opportunity to use my TR-4CW/RIT in AM (before installing a switched 6KHz Inrad filter) and find plate current peaks only about 100mA at best. Resting Ip is very, very low- but perhaps that is the way it was designed. The manual warns to limit peaks to 200-250mA- no way I can approach that level. Low power out.

I will be trying another screen modulator tube- anyone have an idea if
I should be looking elsewhere? Works FB on SSB/CW.
>
> Tnx,
>
> Dale W4OP
>
> [Non-text portions of this message have been removed]
>

1630. Re: [DrakeRadio] Re: TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-15 23:59:40 UTC
From: DALE PARFITT
Topic: 1628 Message: 1630

----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 15, 2008 5:50 PM
Subject: [DrakeRadio] Re: TR-4CW/RIT weak AM

Hello Dale,

Drake uses controlled carrier screen modulation in AM. Controlled Carrier Screen Modulation operates similar to single sideband but with a small amount of carrier until modulation is applied, hence "controlled carrier". In AM, a voltage is applied to the balance modulator to cause it to become slightly "unbalanced". This slight unbalancing of the balance modulator allows the carrier generator signal to appear at the output of the balance modulator and to the other circuits that follow. At the same time the AM modulator tube holds the driver tube's screen voltage at a lower voltage resulting in a reduction in the RF drive to the final tubes, hence low idling output power in AM.

Speaking into the microphone causes the balance modulator to become "more" unbalanced, just as in single sideband suppressed carrier, allowing a variable increase in the carrier generator's RF signal level to flow through the balance modulator and on to the other circuits. At the same time, the AM modulator tube also varies the driver tube's screen voltage causing the driver tube's output to vary at the same rate as the audio applied to the balance modulator.

As in sideband, the level of audio output from the speech amplifier's output applied to the balance modulator and, in the case of AM, the AM modulator tube, determines the level of RF output from the final amplifier. Therefore, you might try increasing the MIC gain setting slightly. However, having said that, do not increase the MIC gain setting too much as this will create distortion in the output signal just as in sideband.

In most, but not all, controlled carrier screen modulated AM transmitters, especially in the case of Drake transmitters/transceivers, AM is transmitted in the LSB only, not both sidebands.

73
Mike
W5RKL

Hi MIke,
Thank you for your reply. I am very familiar with the controlled carrier

modulation- and how Drake does it.

What I am looking for is why my Po is so low in AM mode- perhaps 10-20W on audio peaks, and an idea of what idling Ip should be in AM mode.

Tnx,

Dale W4OP

1631. Re: [DrakeRadio] TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 03:04:19 UTC
From: Garey Barrell
Topic: 1628 Message: 1631

Dale -

Here are a couple of good references for AM with the T-4X/C. Same
circuit in the TR-4C, but watch the power!!!!

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/T4X_AM_Modification.htm>

<http://www.wb4hfn.com/DRAKE/DrakeArticles/HiFi_AM_T4X.htm>

And for the TR-4C specifically.

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TR4_AM-Filter/TR4CW_AM-Filter_01.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have finally had an opportunity to use my TR-4CW/RIT in AM (before installing a switched 6KHz Inrad filter) and find plate current peaks only about 100mA at best. Resting Ip is very, very low- but perhaps that is the way it was designed. The manual warns to limit peaks to 200-250mA- no way I can approach that level. Low power out. I will be trying another screen modulator tube- anyone have an idea if I should be looking elsewhere? Works FB on SSB/CW.
>
> Tnx,
>
> Dale W4OP
>
>

1632. Re: [DrakeRadio] TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 03:07:33 UTC
From: Garey Barrell
Topic: 1628 Message: 1632

Dale -

Meant to mention.....

The ONLY way to see what your PEAK power is, is with a scope. SOME so called "peak reading wattmeters" come close, but nothing beats a scope. You might be surprised to see what your power really is. The Drake meters are VERY heavily damped and don't do "peak" very well at all!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> I have finally had an opportunity to use my TR-4CW/RIT in AM (before installing a switched 6KHz Inrad filter) and find plate current peaks only about 100mA at best. Resting Ip is very, very low- but perhaps that is the way it was designed. The manual warns to limit peaks to 200-250mA- no way I can approach that level. Low power out. I will be trying another screen modulator tube- anyone have an idea if I should be looking elsewhere? Works FB on SSB/CW.
>
> Tnx,
>
> Dale W4OP
>

1633. Re: [DrakeRadio] TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 03:38:20 UTC
From: DALE PARFITT
Topic: 1628 Message: 1633

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 15, 2008 10:04 PM
Subject: Re: [DrakeRadio] TR-4CW/RIT weak AM

Thank you Garey,
Do you have a feel for what the unmodified resting Ip should be in AM position?

Dale W4OP

[Non-text portions of this message have been removed]

1634. Re: [DrakeRadio] TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 15:06:10 UTC
From: Garey Barrell
Topic: 1628 Message: 1634

Dale -

I've never tried to run AM with any of the Drake transmitters. I don't have a TR-4 set up at the moment, but I suspect you would not see any increase in plate current above the 100 mA idle current. The carrier OUTPUT should be about 15-20W with no modulation. The carrier level is kept very low with no modulation to minimize dissipation, and increases with modulation to support the sidebands. An AM receiver isn't very happy with this type of modulation as the AVC follows the carrier level, making it look like an SSB signal on the S-Meter, just one you can understand! If the receiver has a Slow AVC function, it's much more pleasant to listen to.

Bottom line, it's not a very useful feature, and was included only to allow users of what was intended to be a mobile transceiver to at least talk to the AM fixed and mobile stations that were still quite prevalent when these transceivers first came out. Many AM users today are not very tolerant of these types of signals since they are not very pleasant to listen to on typical AM receivers.

73, Garey - K4OAH
Glen Allen, VA

DALE PARFITT wrote:
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, December 15, 2008 10:04 PM
> Subject: Re: [DrakeRadio] TR-4CW/RIT weak AM
>
>
> Thank you Garey,
> Do you have a feel for what the unmodified resting Ip should be in AM position?
>
> Dale W4OP
>

1635. Re: TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 15:44:21 UTC
From: w5rkl
Topic: 1628 Message: 1635

I just checked my T4XC in AM. The final amplifier idling current, no modulation, is approx 100ma showing about 10 watts of carrier into a dummy load. With the MIC gain turned up to 10 o'clock, LOAD control set at 10 o'clock, using an unamplified D-104 and normal voice produced an average power output of 50 watts on peaks using the Drake MN-2K watt meter. The watt merer is not a peak meter just average. Naturally with 3 final tubes the no modulation final amplifier idling current may be slightly higher along with higher RF output on voice peaks. As Garey said, I also do not have a TR3/TR4/TR4C etc to compare these figures with.

I agree with Garey, many AM folks running DSB plate modulated AM don't care for CCSM AM. Been there and been told just that. The first thing that is usually commented on it only one sideband is being transmitted. With the Drakes, as you know, this is true, LSB only.

I'm fixing that by replacing the filter caps in my Heathkit Apache TX-1. That AM transmitter sounds very good since the speech amplifier was modified.

Merry Christmas/Happy Holidays

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Dale -
>
> I've never tried to run AM with any of the Drake transmitters. I don't
> have a TR-4 set up at the moment, but I suspect you would not see any
> increase in plate current above the 100 mA idle current. The carrier
> OUTPUT should be about 15-20W with no modulation. The carrier level is
> kept very low with no modulation to minimize dissipation, and increases
> with modulation to support the sidebands. An AM receiver isn't very
> happy with this type of modulation as the AVC follows the carrier
level,
> making it look like an SSB signal on the S-Meter, just one you can
> understand! If the receiver has a Slow AVC function, it's much more
> pleasant to listen to.
>
> Bottom line, it's not a very useful feature, and was included only to
> allow users of what was intended to be a mobile transceiver to at least
> talk to the AM fixed and mobile stations that were still quite
prevalent

> when these transceivers first came out. Many AM users today are not
> very tolerant of these types of signals since they are not very
pleasant
> to listen to on typical AM receivers.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
> DALE PARFITT wrote:
> > ----- Original Message -----
> > From: Garey Barrell
> > To: DrakeRadio@yahoogroups.com
> > Sent: Monday, December 15, 2008 10:04 PM
> > Subject: Re: [DrakeRadio] TR-4CW/RIT weak AM
> > >
> > >
> > > Thank you Garey,
> > > Do you have a feel for what the unmodified resting Ip should be
in AM position?
> > >
> > > Dale W4OP
> > >
>

1636. TR-4C on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 15:16:00 UTC
From: DALE PARFITT
Topic: 1636 Message: 1636

Dale -

I've never tried to run AM with any of the Drake transmitters. I don't have a TR-4 set up at the moment, but I suspect you would not see any increase in plate current above the 100 mA idle current. The carrier OUTPUT should be about 15-20W with no modulation. The carrier level is kept very low with no modulation to minimize dissipation, and increases with modulation to support the sidebands. An AM receiver isn't very happy with this type of modulation as the AVC follows the carrier level, making it look like an SSB signal on the S-Meter, just one you can understand! If the receiver has a Slow AVC function, it's much more pleasant to listen to.

Hi Garey,
That is my concern then- as resting plate current appears to be around 10-25mA when in AM mode. I believe this is a function of the screen modulator tube- so I'll start looking there. One mod reported raising this resting value (with the attendant dissipation). But for now, I'm just trying to see if everything is nominal in AM mode- which it appears it is not.

Thanks Garey- more work to do.

Dale W4OP

1637. Re: [DrakeRadio] Re: TR-4CW/RIT weak AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 16:04:13 UTC
From: DALE PARFITT
Topic: 1628 Message: 1637

----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 16, 2008 10:44 AM
Subject: [DrakeRadio] Re: TR-4CW/RIT weak AM

I just checked my T4XC in AM. The final amplifier idling current, no modulation, is approx 100ma showing about 10 watts of carrier into a dummy load. With the MIC gain turned up to 10 o'clock, LOAD control set at 10 o'clock, using an unamplified D-104 and normal voice produced an average power output of 50 watts on peaks using the Drake MN-2K watt meter. The watt merer is not a peak meter just average. Naturally with 3 final tubes the no modulation final amplifier idling current may be slightly higher along with higher RF output on voice peaks. As Garey said, I also do not have a TR3/TR4/TR4C etc to compare these figures with.

I agree with Garey, many AM folks running DSB plate modulated AM don't care for CCSM AM. Been there and been told just that. The first thing that is usually commented on it only one sideband is being transmitted. With the Drakes, as you know, this is true, LSB only.

I'm fixing that by replacing the filter caps in my Heathkit Apache TX-1. That AM transmitter sounds very good since the speech amplifier was modified.

Merry Christmas/Happy Holidays

73
Mike
W5RKL

Perfect Mike,
Just what I was looking for. I have some researching to do.

I have a very nice mod that allows a 6KHz Inrad filter to be used on AM. It is activated by pulling out on the RIT knob (after replacing it with the same value + a push pull switch).
When in-line, both the USB and LSB lamps are illuminated to remind one that the 6KHz filter is now in line.

Tnx agn,
Dale W4OP

1638. AC-4 Recap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:05:54 UTC
From: w5rkl
Topic: 1638 Message: 1638

Looking through various AC4 schematics I noticed not all AC4 schematics are the same. The one I have in my T4XC manual shows the following caps in the LV supply:

C3 = 100ufd 350VDC

C4A = 100ufd 350VDC

C4B = 80ufd 350VDC

The AC4 manual schematic on the Internet (bama) shows the following:

C3 = 100ufd 350VDC

C4A = 80ufd 350VDC

C4B = 80ufd 350VDC

Would it be safe to assume replacing all 3 capacitors with 100ufd at 350VDC be acceptable? Any increase in voltage would be small, if any increase at all.

The bias supply filter caps on both the Internet (bama) and my T4XC schematic shows both C5A and C5B as 20ufd at 150VDC but the Internet AC4 manual's parts list shows these two capacitors as 40ufd at 150VDC each. Must have been a change that wasn't reflected in the parts list, only in the schematic.

I was considering replacing C3, C4A, and C4B with 100ufd at 350VDC each cap. The bias supply caps with two 22ufd at 160VDC caps.

The HV caps, 125ufd 400VDC caps, I am considering replacing with 140ufd 500VDC caps. 125ufd 400VDC caps are difficult to find, if one can find them.

New 1N4007 diodes for all original diodes.

I know about The Heathkit Shop and the AC4 upgrade kit.

Comments?

73
Mike
W5RKL

1639. Re: [DrakeRadio] AC-4 Recap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:15:46 UTC
From: Garey Barrell
Topic: 1638 Message: 1639

Mike -

No problem with the values you suggest, except for the Bias supply. Drake did change from 20 uF caps to 40 uF caps per the 1976 parts list, so I would suggest you use 47 uF for those two. They also changed C4 to a 100 / 100 uF @ 350V.

The 140 uF for the HV supply would be fine. Keep in mind that the original caps were spec'd at +80 / -20% tolerance!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Looking through various AC4 schematics I noticed not all AC4
> schematics are the same. The one I have in my T4XC manual shows the
> following caps in the LV supply:
>
> C3 = 100ufd 350VDC
>
> C4A = 100ufd 350VDC
>
> C4B = 80ufd 350VDC
>
> The AC4 manual schematic on the Internet (bama) shows the following:
>
> C3 = 100ufd 350VDC
>
> C4A = 80ufd 350VDC
>
> C4B = 80ufd 350VDC
>
> Would it be safe to assume replacing all 3 capacitors with 100ufd at
> 350VDC be acceptable? Any increase in voltage would be small, if any
> increase at all.
>
> The bias supply filter caps on both the Internet (bama) and my T4XC
> schematic shows both C5A and C5B as 20ufd at 150VDC but the Internet
> AC4 manual's parts list shows these two capacitors as 40ufd at 150VDC
> each. Must have been a change that wasn't reflected in the parts list,
> only in the schematic.
>
> I was considering replacing C3, C4A, and C4B with 100ufd at 350VDC

> each cap. The bias supply caps with two 22ufd at 160VDC caps.
>
> The HV caps, 125ufd 400VDC caps, I am considering replacing with
> 140ufd 500VDC caps. 125ufd 400VDC caps are difficult to find, if one
> can find them.
>
> New 1N4007 diodes for all original diodes.
>
> I know about The Heathkit Shop and the AC4 upgrade kit.
>
> Comments?
>
> 73
> Mike
> W5RKL
>
>

1640. Re: [DrakeRadio] AC-4 Recap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:19:43 UTC
From: LEE BAHR
Topic: 1638 Message: 1640

Yes you can do as you suggest.

However, I would highly suggest you install one of The Heathkit Shop replacement AC-4R boards made for a Drake AC-4. This will completely rebuild you power supply with modern easily obtainable parts. See this URL: www.theheathkitshop.com Many a AC-4 have been converted with this great product.

Lee, w0vt

----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 16, 2008 12:05 PM
Subject: [DrakeRadio] AC-4 Recap

Looking through various AC4 schematics I noticed not all AC4 schematics are the same. The one I have in my T4XC manual shows the following caps in the LV supply:

C3 = 100ufd 350VDC

C4A = 100ufd 350VDC

C4B = 80ufd 350VDC

The AC4 manual schematic on the Internet (bama) shows the following:

C3 = 100ufd 350VDC

C4A = 80ufd 350VDC

C4B = 80ufd 350VDC

Would it be safe to assume replacing all 3 capacitors with 100ufd at 350VDC be acceptable? Any increase in voltage would be small, if any increase at all.

The bias supply filter caps on both the Internet (bama) and my T4XC schematic shows both C5A and C5B as 20ufd at 150VDC but the Internet AC4 manual's parts list shows these two capacitors as 40ufd at 150VDC each. Must have been a change that wasn't reflected in the parts list, only in the schematic.

I was considering replacing C3, C4A, and C4B with 100ufd at 350VDC each cap. The bias supply caps with two 22ufd at 160VDC caps.

The HV caps, 125ufd 400VDC caps, I am considering replacing with 140ufd 500VDC caps. 125ufd 400VDC caps are difficult to find, if one can find them.

New 1N4007 diodes for all original diodes.

I know about The Heathkit Shop and the AC4 upgrade kit.

Comments?

73
Mike
W5RKL

[Non-text portions of this message have been removed]

1641. Re: AC-4 Recap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:33:46 UTC
From: w5rkl
Topic: 1638 Message: 1641

Thanks guys.

I must have an old schematic along with the bama schematic. The T4XC AC4 schematic does not contain a parts lists just the schematic. 47ufd at 160VDC are no problem.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> No problem with the values you suggest, except for the Bias supply.
> Drake did change from 20 uF caps to 40 uF caps per the 1976 parts list,
> so I would suggest you use 47 uF for those two. They also changed
C4 to
> a 100 / 100 uF @ 350V.
>
> The 140 uF for the HV supply would be fine. Keep in mind that the
> original caps were spec'd at +80 / -20% tolerance!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> w5rkl wrote:
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> > schematics are the same. The one I have in my T4XC manual shows the
> > following caps in the LV supply:
> >
> > C3 = 100ufd 350VDC
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> > C4A = 100ufd 350VDC
> >
> > C4B = 80ufd 350VDC
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> > The AC4 manual schematic on the Internet (bama) shows the following:
> >
> > C3 = 100ufd 350VDC
> >

> > C4A = 80ufd 350VDC
> >
> > C4B = 80ufd 350VDC
> >
> > Would it be safe to assume replacing all 3 capacitors with 100ufd at
> > 350VDC be acceptable? Any increase in voltage would be small, if any
> > increase at all.
> >
> > The bias supply filter caps on both the Internet (bama) and my T4XC
> > schematic shows both C5A and C5B as 20ufd at 150VDC but the Internet
> > AC4 manual's parts list shows these two capacitors as 40ufd at 150VDC
> > each. Must have been a change that wasn't reflected in the parts list,
> > only in the schematic.
> >
> > I was considering replacing C3, C4A, and C4B with 100ufd at 350VDC
> > each cap. The bias supply caps with two 22ufd at 160VDC caps.
> >
> > The HV caps, 125ufd 400VDC caps, I am considering replacing with
> > 140ufd 500VDC caps. 125ufd 400VDC caps are difficult to find, if one
> > can find them.
> >
> > New 1N4007 diodes for all original diodes.
> >
> > I know about The Heathkit Shop and the AC4 upgrade kit.
> >
> > Comments?
> >
> > 73
> > Mike
> > W5RKL
> >
> >
>

1642. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:34:11 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 1642

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /Restoring life to a dead electrolytic capacitor.doc
Uploaded by : tallsteve88 <ai0w@...>
Description : Reforming Electrolytic Capacitors

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/Restoring%20life%20to%20a%20dead%20electrol
ytic%20capacitor.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

tallsteve88 <ai0w@...>

1643. RE: [DrakeRadio] AC-4 Recap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-16 18:38:35 UTC
From: Steve Finch
Topic: 1638 Message: 1643

If the capacitor ☐looks☐ intact, I will try to reform the capacitor before replacing. I generally hold to the following principles:

1. Many older electrolytic can be ☐reformed☐ and will work fine. I generally lift the + terminal off and try to reform in place using my variac and a simple diode ring rectifier with a 100 ufd, 450 v. capacitor to give me DC. I start at one half the design voltage DC, and move up to the design voltage in 25 voltage steps for 30 minutes at each voltage. I also have a 1k ohm, 2 watt resistor in the DC line to limit the initial current inrush into the reforming capacitor. After the initial inrush, the current essentially drops to zero. If it stays more than 10% of the supply voltage, you may have a ☐leaky☐ capacitor.

2. If I decide or need to replace the electrolytic, I always use the design voltage or higher. Once a capacitor has been used at a lower voltage, they tend to stabilize at the lower voltage and are not useable at the higher ☐stated design☐ voltage any more.

3. I will substitute up to 25% ufd higher on the electrolytics. Too much more than that could stress other components especially during the initial inrush of current immediately after turning the unit on.

I uploaded an article about reforming electrolytic capacitors into the Files area of the newsgroup.

Steve

Steve Finch, AIØW
Bailey, CO
ai0w@...t

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, December 16, 2008 11:06 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] AC-4 Recap

Looking through various AC4 schematics I noticed not all AC4 schematics are the same. The one I have in my T4XC manual shows the following caps in the LV supply:

C3 = 100ufd 350VDC

C4A = 100ufd 350VDC

C4B = 80ufd 350VDC

The AC4 manual schematic on the Internet (bama) shows the following:

C3 = 100ufd 350VDC

C4A = 80ufd 350VDC

C4B = 80ufd 350VDC

Would it be safe to assume replacing all 3 capacitors with 100ufd at 350VDC be acceptable? Any increase in voltage would be small, if any increase at all.

The bias supply filter caps on both the Internet (bama) and my T4XC schematic shows both C5A and C5B as 20ufd at 150VDC but the Internet AC4 manual's parts list shows these two capacitors as 40ufd at 150VDC each. Must have been a change that wasn't reflected in the parts list, only in the schematic.

I was considering replacing C3, C4A, and C4B with 100ufd at 350VDC each cap. The bias supply caps with two 22ufd at 160VDC caps.

The HV caps, 125ufd 400VDC caps, I am considering replacing with 140ufd 500VDC caps. 125ufd 400VDC caps are difficult to find, if one can find them.

New 1N4007 diodes for all original diodes.

I know about The Heathkit Shop and the AC4 upgrade kit.

Comments?

73
Mike
W5RKL

[Non-text portions of this message have been removed]

1645. Re: Drake TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 21:33:07 UTC
From: Tim Stotenburg
Topic: 1625 Message: 1645

Probably my favorite mike is the Kenwood MC-50, but will swap between
the Shure 444, EV664. Just be sure it is a HI-z mic.
Unless the stock filters are bad would just leave them stock.
Do an alignment if it hasn't been done in a while.
Cheers,
Tim

1647. Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 22:19:29 UTC
From: py2xb
Topic: 1647 Message: 1647

I am working on a Drake 2B which is functional but has low sensitivity on all bands (almost dead on 15/10m)

I have checked tubes, resistence chart and voltage chart. The only huge difference I have found rergards the DC voltage on G1 of V3 (pin 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid to oscillate BTW.

The chart says -.5V I find +2.7 volts. The VFO works because I am tunning stations (even though with very low sensivity) . I have replaced the tube and nothing changes. I have checked the bias resistor and cathode resistor. Both ok.

I am puzzled because I am wondering if there isn't something wrong that I cannot see.

BTW when I introduce the probe to make the measurement, the reception goes away (it seemed the VFO halts). I am unable to say if this is normal or not. I am using a high impedance VTVM.

Any input on this is very much appreciated.

Regards Fred PY2XB

1648. Re: [DrakeRadio] Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 22:33:04 UTC
From: Garey Barrell
Topic: 1647 Message: 1648

Fred -

Just about any meter will kill that oscillator, and that is why you are seeing an incorrect voltage.

What sort of antenna are you using? There are seldom any signals on the 15 and 10M bands these days except on contest weekends.

Do you have the crystal calibrator installed? If so, what does it read on the various bands? If not, do you have another receiver with a crystal calibrator that you can connect "antenna-to-antenna" for a reference signal.

Whatever problem your 2-B may or may not have, it's NOT the voltage on the grid of V3! :-)

73, Garey - K4OAH
St Charles, IL

py2xb wrote:
> I am working on a Drake 2B which is functional but has low sensitivity
> on all bands (almost dead on 15/10m)
>
> I have checked tubes, resistence chart and voltage chart. The only
> huge difference I have found rergards the DC voltage on G1 of V3 (pin
> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> to oscillate BTW.
>
> The chart says -.5V I find +2.7 volts. The VFO works because I am
> tunning stations (even though with very low sensivity) . I have
> replaced the tube and nothing changes. I have checked the bias
> resistor and cathode resistor. Both ok.
>
> I am puzzled because I am wondering if there isn't something wrong
> that I cannot see.
>
> BTW when I introduce the probe to make the measurement, the reception
> goes away (it seemed the VFO halts). I am unable to say if this is
> normal or not. I am using a high impedance VTVM.
>
> Any input on this is very much appreciated.
>
> Regards Fred PY2XB
>
>
>

1649. RE: [DrakeRadio] Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 22:41:32 UTC
From: Jerry Kimento
Topic: 1647 Message: 1649

Did you see where the sensitivity pot in the rear is set

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Sunday, December 21, 2008 4:33 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake 2-A/2-B question

Fred -

Just about any meter will kill that oscillator, and that is why you are seeing an incorrect voltage.

What sort of antenna are you using? There are seldom any signals on the 15 and 10M bands these days except on contest weekends.

Do you have the crystal calibrator installed? If so, what does it read on the various bands? If not, do you have another receiver with a crystal calibrator that you can connect "antenna-to-antenna" for a reference signal.

Whatever problem your 2-B may or may not have, it's NOT the voltage on the grid of V3! :-)

73, Garey - K4OAH
St Charles, IL

py2xb wrote:
> I am working on a Drake 2B which is functional but has low sensitivity
> on all bands (almost dead on 15/10m)
>
> I have checked tubes, resistence chart and voltage chart. The only
> huge difference I have found rergards the DC voltage on G1 of V3 (pin
> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> to oscillate BTW.
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> The chart says -.5V I find +2.7 volts. The VFO works because I am
> tunning stations (even though with very low sensivity) . I have
> replaced the tube and nothing changes. I have checked the bias
> resistor and cathode resistor. Both ok.
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> I am puzzled because I am wondering if there isn't something wrong

> that I cannot see.
>
> BTW when I introduce the probe to make the measurement, the reception
> goes away (it seemed the VFO halts). I am unable to say if this is
> normal or not. I am using a high impedance VTVM.
>
> Any input on this is very much appreciated.
>
> Regards Fred PY2XB
>
>
>

[Non-text portions of this message have been removed]

1650. Re: Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 22:56:13 UTC
From: py2xb
Topic: 1647 Message: 1650

Garey, thanks for the input. I have low sensivity on 80 and 40m too. I have a dipole on 80m and a Yagi on 40m. It is like that across the board.

I've discarded that the wrong reading is because the oscillator halts. The reason I did is because the voltage is on the manuals' chart. I suppose they have actually measured the -.5V with the 11Mohm VTVM. However, if this is the reason the pb is some place else.

I have not yet started the alignment procedure. Perhaps some IF stage went crazy and needs alignment. I am trying to check the circuits b4 going to this procedure.

I can check on all bands with an accurate RF generator, BTW.

Thanks again. Fred

P/S I am still looking for inputs !!! or Tips...

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fred -
>
> Just about any meter will kill that oscillator, and that is why you are
> seeing an incorrect voltage.
>
> What sort of antenna are you using? There are seldom any signals on
the
> 15 and 10M bands these days except on contest weekends.
>
> Do you have the crystal calibrator installed? If so, what does it read
> on the various bands? If not, do you have another receiver with a
> crystal calibrator that you can connect "antenna-to-antenna" for a
> reference signal.
>
> Whatever problem your 2-B may or may not have, it's NOT the voltage on
> the grid of V3! :-)
>
> 73, Garey - K4OAH
> St Charles, IL
>
>
>
> py2xb wrote:
> > I am working on a Drake 2B which is functional but has low sensitivity
> > on all bands (almost dead on 15/10m)
> >

> > I have checked tubes, resistence chart and voltage chart. The only
> > huge difference I have found rergards the DC voltage on G1 of V3 (pin
> > 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> > to oscillate BTW.
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> > tunning stations (even though with very low sensivity) . I have
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> > resistor and cathode resistor. Both ok.
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> > I am puzzled because I am wondering if there isn't something wrong
> > that I cannot see.
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> > BTW when I introduce the probe to make the measurement, the reception
> > goes away (it seemed the VFO halts). I am unable to say if this is
> > normal or not. I am using a high impedance VTVM.
> >
> > Any input on this is very much appreciated.
> >
> > Regards Fred PY2XB
> >
> >
> >
>

1651. Re: Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-21 22:57:51 UTC
From: py2xb
Topic: 1647 Message: 1651

Hello jerry

I did, this is the bias pot. It is set for max sensitivity

Fred

--- In DrakeRadio@yahoogroups.com, "Jerry Kimento" <jerrywk1@...> wrote:
>
> Did you see where the sensitivity pot in the rear is set
>
>
>
> Jerry
>
> Wb9jfr
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell
> Sent: Sunday, December 21, 2008 4:33 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Drake 2-A/2-B question
>
>
>
> Fred -
>
> Just about any meter will kill that oscillator, and that is why you are
> seeing an incorrect voltage.
>
> What sort of antenna are you using? There are seldom any signals on the
> 15 and 10M bands these days except on contest weekends.
>
> Do you have the crystal calibrator installed? If so, what does it read
> on the various bands? If not, do you have another receiver with a
> crystal calibrator that you can connect "antenna-to-antenna" for a
> reference signal.
>
> Whatever problem your 2-B may or may not have, it's NOT the voltage on
> the grid of V3! :-)
>
> 73, Garey - K4OAH
> St Charles, IL

>
> py2xb wrote:
> > I am working on a Drake 2B which is functional but has low sensitivity
> > on all bands (almost dead on 15/10m)
> >
> > I have checked tubes, resistence chart and voltage chart. The only
> > huge difference I have found rergards the DC voltage on G1 of V3 (pin
> > 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> > to oscillate BTW.
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> > The chart says -.5V I find +2.7 volts. The VFO works because I am
> > tunning stations (even though with very low sensivity) . I have
> > replaced the tube and nothing changes. I have checked the bias
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> > BTW when I introduce the probe to make the measurement, the reception
> > goes away (it seemed the VFO halts). I am unable to say if this is
> > normal or not. I am using a high impedance VTVM.
> >
> > Any input on this is very much appreciated.
> >
> > Regards Fred PY2XB
> >
> >
> >
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>
> [Non-text portions of this message have been removed]
>

1652. Happy outcome - Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-22 20:07:34 UTC
From: py2xb
Topic: 1647 Message: 1652

For those who are interested on unusual problems :

I have circled the faulty stage as being the 2sd IF section (455 Khz).
After checking resistors and capacitors, the guilty part seemed to be
the IF transformer. I have retrieved it from the chassis and opened
the metalic can. There it was ! The top ferrite slug was broken in
pieces. So the IF stage was completely detuned.

Is that normal ? The receiver has been transported but there is no
sign it has got a punch.

I have replaced the ferrite by another 455KHz transformer slug,
reassembled the part and aligned the IF stage.

It is a beautiful receiver. Probably one of the best SSB receiver of
its time.

Happy Holidays

Fred PY2XB

--- In DrakeRadio@yahoogroups.com, "py2xb" <py2xb@...> wrote:
>
> I am working on a Drake 2B which is functional but has low sensitivity
> on all bands (almost dead on 15/10m)
>
> I have checked tubes, resistence chart and voltage chart. The only
> huge difference I have found rergards the DC voltage on G1 of V3 (pin
> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> to oscillate BTW.
>
> The chart says -.5V I find +2.7 volts. The VFO works because I am
> tunning stations (even though with very low sensivity) . I have
> replaced the tube and nothing changes. I have checked the bias
> resistor and cathode resistor. Both ok.
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> I am puzzled because I am wondering if there isn't something wrong
> that I cannot see.
>
> BTW when I introduce the probe to make the measurement, the reception
> goes away (it seemed the VFO halts). I am unable to say if this is
> normal or not. I am using a high impedance VTVM.
>
> Any input on this is very much appreciated.
>
> Regards Fred PY2XB
>

1653. Re: [DrakeRadio] Happy outcome - Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-22 22:40:45 UTC
From: Garey Barrell
Topic: 1647 Message: 1653

Fred -

Good catch! I doubt if the slug broke "by itself".! :-) Most likely
a previous owner damaged it with either an improper tool, or, it was
stuck and force was used to try and "fix" it....

Fortunately the IF is at 455 kHz, meaning there are millions of cans
just like it out there.

The 2-B was definitely a "watershed" receiver design. It was one of the
first receivers to break with the built like a battleship HEAVY designs
of the past. Many of those receivers, especially Hallicrafter's brand,
were so mechanically unstable that you couldn't walk across the floor
without the receiver "bouncing" frequency with every step. Contrast
with the 2-B, which we would demonstrate by tuning in a CW or SSB
station, lifting the front of the receiver an inch or so off the desk
and dropping it. The received tone would "bounce" momentarily and then
return to right where it had been! Most would buy it on the spot! It
will still hold it's own with modern receivers in all but absolute
selectivity and close-in strong signal rejection. For day to day
hamming, it will hear anything a modern receiver will.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

py2xb wrote:
> For those who are interested on unusual problems :
>
> I have circled the faulty stage as being the 2sd IF section (455 Khz).
> After checking resistors and capacitors, the guilty part seemed to be
> the IF transformer. I have retrieved it from the chassis and opened
> the metalic can. There it was ! The top ferrite slug was broken in
> pieces. So the IF stage was completely detuned.
>
> Is that normal ? The receiver has been transported but there is no
> sign it has got a punch.
>
> I have replaced the ferrite by another 455KHz transformer slug,
> reassembled the part and aligned the IF stage.
>
> It is a beautiful receiver. Probably one of the best SSB receiver of
> its time.
>

> Happy Holidays
>
> Fred PY2XB
>
>
> --- In DrakeRadio@yahoogroups.com, "py2xb" <py2xb@...> wrote:
>
>> I am working on a Drake 2B which is functional but has low sensitivity
>> on all bands (almost dead on 15/10m)
>>
>> I have checked tubes, resistence chart and voltage chart. The only
>> huge difference I have found rergards the DC voltage on G1 of V3 (pin
>> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
>> to oscillate BTW.
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>> The chart says -.5V I find +2.7 volts. The VFO works because I am
>> tunning stations (even though with very low sensivity) . I have
>> replaced the tube and nothing changes. I have checked the bias
>> resistor and cathode resistor. Both ok.
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>> I am puzzled because I am wondering if there isn't something wrong
>> that I cannot see.
>>
>> BTW when I introduce the probe to make the measurement, the reception
>> goes away (it seemed the VFO halts). I am unable to say if this is
>> normal or not. I am using a high impedance VTVM.
>>
>> Any input on this is very much appreciated.
>>
>> Regards Fred PY2XB
>>
>>
>
>

1654. RE: [DrakeRadio] Happy outcome - Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-22 22:45:00 UTC
From: Jerry Kimento
Topic: 1647 Message: 1654

I agree

My drake 2b sounds and receives better than my icom markiig

My ham buddies are amazed at the quality of this radio

We did a side by side test one night and they could not believe how it sounded

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Monday, December 22, 2008 4:41 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Happy outcome - Drake 2-A/2-B question

Fred -

Good catch! I doubt if the slug broke "by itself".! :-) Most likely a previous owner damaged it with either an improper tool, or, it was stuck and force was used to try and "fix" it....

Fortunately the IF is at 455 kHz, meaning there are millions of cans just like it out there.

The 2-B was definitely a "watershed" receiver design. It was one of the first receivers to break with the built like a battleship HEAVY designs of the past. Many of those receivers, especially Hallicrafter's brand, were so mechanically unstable that you couldn't walk across the floor without the receiver "bouncing" frequency with every step. Contrast with the 2-B, which we would demonstrate by tuning in a CW or SSB station, lifting the front of the receiver an inch or so off the desk and dropping it. The received tone would "bounce" momentarily and then return to right where it had been! Most would buy it on the spot! It will still hold it's own with modern receivers in all but absolute selectivity and close-in strong signal rejection. For day to day hamming, it will hear anything a modern receiver will.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

py2xb wrote:
> For those who are interested on unusual problems :
>
> I have circled the faulty stage as being the 2sd IF section (455 Khz).
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> the IF transformer. I have retrieved it from the chassis and opened
> the metalic can. There it was ! The top ferrite slug was broken in
> pieces. So the IF stage was completely detuned.
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> Is that normal ? The receiver has been transported but there is no
> sign it has got a punch.
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> I have replaced the ferrite by another 455KHz transformer slug,
> reassembled the part and aligned the IF stage.
>
> It is a beautiful receiver. Probably one of the best SSB receiver of
> its time.
>
> Happy Holidays
>
> Fred PY2XB
>
>
> --- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> ,
"py2xb" <py2xb@...> wrote:
>
>> I am working on a Drake 2B which is functional but has low sensitivity
>> on all bands (almost dead on 15/10m)
>>
>> I have checked tubes, resistence chart and voltage chart. The only
>> huge difference I have found rergards the DC voltage on G1 of V3 (pin
>> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
>> to oscillate BTW.
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>> normal or not. I am using a high impedance VTVM.
>>
>> Any input on this is very much appreciated.
>>
>> Regards Fred PY2XB
>>
>>

>
>

[Non-text portions of this message have been removed]

1655. Re: Happy outcome - Drake 2-A/2-B question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-22 23:30:36 UTC
From: py2xb
Topic: 1647 Message: 1655

Garey and Jerry

The IF transformer's top screw seemed to be untouched. I do not know how it happened . According to your comment Garey, you would think that someone played with it before. It is possible.

I need to clean it up, so I have to disassable the front panel. There is a plastic sleeve on the passband tuning shaft. It is necessary to take it off in order to remove the switch lever ? It is tighted to the shaft. Everything is straight forward except by this part. Help appreciated.

Garey I see you have a maintenance CD for the 2-B. It will be useful here. Would you mind to email in private ? py2xb@...

I also have a Drake 1A which is somewhat older than the 2-B. The 1-A was a good start for Drake. I don't like the enclosure, but the receiver is very good for its time.
I agree on stability differences. I have just restored an AA5 S-38C. Taken in account the different price tag at that time, Drake is a total different animal.

Regards Fred
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fred -
>
> Good catch! I doubt if the slug broke "by itself".! :-) Most likely
> a previous owner damaged it with either an improper tool, or, it was
> stuck and force was used to try and "fix" it....
>
> Fortunately the IF is at 455 kHz, meaning there are millions of cans
> just like it out there.
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> The 2-B was definitely a "watershed" receiver design. It was one of
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> of the past. Many of those receivers, especially Hallicrafter's brand,
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> St Charles, IL
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> Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> py2xb wrote:
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> >
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Khz).
> > After checking resistors and capacitors, the guilty part seemed to be
> > the IF transformer. I have retrieved it from the chassis and opened
> > the metalic can. There it was ! The top ferrite slug was broken in
> > pieces. So the IF stage was completely detuned.
> >
> > Is that normal ? The receiver has been transported but there is no
> > sign it has got a punch.
> >
> > I have replaced the ferrite by another 455KHz transformer slug,
> > reassembled the part and aligned the IF stage.
> >
> > It is a beautiful receiver. Probably one of the best SSB receiver of
> > its time.
> >
> > Happy Holidays
> >
> > Fred PY2XB
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "py2xb" <py2xb@> wrote:
> >
> >> I am working on a Drake 2B which is functional but has low
sensitivity
> >> on all bands (almost dead on 15/10m)
> >>
> >> I have checked tubes, resistence chart and voltage chart. The only
> >> huge difference I have found rergards the DC voltage on G1 of V3 (pin
> >> 1). It is a 6BE6 (2sd mixer & VFO). The VFO circuit uses this grid
> >> to oscillate BTW.
> >>
> >> The chart says -.5V I find +2.7 volts. The VFO works because I am
> >> tunning stations (even though with very low sensivity) . I have
> >> replaced the tube and nothing changes. I have checked the bias
> >> resistor and cathode resistor. Both ok.
> >>

> >> I am puzzled because I am wondering if there isn't something wrong
> >> that I cannot see.
> >>
> >> BTW when I introduce the probe to make the measurement, the
reception
> >> goes away (it seemed the VFO halts). I am unable to say if this is
> >> normal or not. I am using a high impedance VTVM.
> >>
> >> Any input on this is very much appreciated.
> >>
> >> Regards Fred PY2XB
> >>
> >>
> >
> >
>

1656. Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 13:26:32 UTC
From: Jerry Harley
Topic: 1656 Message: 1656

I just acquired this receiver and it works very well on 80, but is quite everywhere else. I don't think it is the band switch but I'll be checking that. Anyone have any ideas? or a common problem? Jerry

1657. Re: Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 14:15:10 UTC
From: toptyp19
Topic: 1656 Message: 1657

Jerry-

Check to see that there are crystals installed for the other bands.
Maybe only the one for 80 is there.

Joe.

--- In DrakeRadio@yahoogroups.com, Jerry Harley <wa2tti@...> wrote:
>
> I just acquired this receiver and it works very well on 80, but is
quite
> everywhere else. I don't think it is the band switch but I'll be
> checking that. Anyone have any ideas? or a common problem? Jerry
>

1658. Re: [DrakeRadio] Re: Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 15:22:20 UTC
From: Jerry Harley
Topic: 1656 Message: 1658

they are all there. I'm working on it now

1659. Re: [DrakeRadio] Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 15:55:22 UTC
From: Garey Barrell
Topic: 1656 Message: 1659

Jerry -

I'm away from home and don't have all my info with me, but the 2-C is essentially an 80M receiver with a crystal controlled converter in front of it. So most likely the problem is that the Band Oscillator is not running. I believe this oscillator is Q1, and it's mixed in a 12AU6, V2.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

Jerry Harley wrote:
> I just acquired this receiver and it works very well on 80, but is quite
> everywhere else. I don't think it is the band switch but I'll be
> checking that. Anyone have any ideas? or a common problem? Jerry
>
>

1660. Re: [DrakeRadio] Re: Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 16:48:17 UTC
From: Jerry Harley
Topic: 1656 Message: 1660

It was the AUX switch that was dirty. I was studing the schematic and decided to toogle it and LIFE. Cleaned the switch and have been playing with it.
Very hot Rx and nice audio. Jerry

1661. Re: [DrakeRadio] Re: Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 17:18:53 UTC
From: Garey Barrell
Topic: 1656 Message: 1661

Jerry -

Great! Switches and solid-state (Q1) just don't mix.......

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

Jerry Harley wrote:
> It was the AUX switch that was dirty. I was studing the schematic and
> decided to toogle it and LIFE. Cleaned the switch and have been playing
> with it.
> Very hot Rx and nice audio. Jerry
>
>
>

1662. Tuning Question for a TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 21:36:00 UTC
From: Peter
Topic: 1662 Message: 1662

I am having some confusion tuning my Drake TR-4Cw. I have a reproduction printed instruction manual. My question pertains to Chapter III entitled "Operation". Section 3-7 in the 5th paragraph reads "Rotate the Mode switch to the X-CW postion and advance the XMTR GAIN control until the plate current meter moves up scale slightly". This is on page 3-5. What exactly does this mean?? If I take this literally I set the Mode switch to X-CW and then turn the XMTR Gain control clockwise until the needle on the meter starts to move up its scale slightly and then move on with successive tuning steps. If I follow this procedure I will get absolutely no dip on the plate control. If I set the XMTR for max reading on the plate current meter I do get a dip on the plate control adjustment. What is the correct method. Maybe its just me but I don't find the wording used in the original manual to be well chosen or specific enough for a new guy. Thanks & 73, Peter.

1663. Re: [DrakeRadio] Tuning Question for a TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-23 22:13:59 UTC
From: rrkrr
Topic: 1662 Message: 1663

Peter,
I suppose "slightly" means enough that you can see a perceptible dip in plate current when tuning the plate adjustment. In my experience, this means initially setting the Xmtr Gain for 100 to 150 mA above idling current. I think the point is to try to get the plate tuning adjustment close to resonance before increasing the RF drive to the level used at full power output. This keep the power dissipation in final amplifier tubes lower than it could be with a mistuned output network with full RF drive.

Bob K4ERR

Peter wrote:
>
> I am having some confusion tuning my Drake TR-4Cw. I have a
> reproduction printed instruction manual. My question pertains to
> Chapter III entitled "Operation". Section 3-7 in the 5th paragraph
> reads "Rotate the Mode switch to the X-CW postion and advance the XMTR
> GAIN control until the plate current meter moves up scale slightly".
> This is on page 3-5. What exactly does this mean?? If I take this
> literally I set the Mode switch to X-CW and then turn the XMTR Gain
> control clockwise until the needle on the meter starts to move up its
> scale slightly and then move on with successive tuning steps. If I
> follow this procedure I will get absolutely no dip on the plate
> control. If I set the XMTR for max reading on the plate current meter
> I do get a dip on the plate control adjustment. What is the correct
> method. Maybe its just me but I don't find the wording used in the
> original manual to be well chosen or specific enough for a new guy.
> Thanks & 73, Peter.
>
>

1664. R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-24 13:45:52 UTC
From: WB7TXG
Topic: 1664 Message: 1664

S-meter wants to peg backwards and/or when signals are received very,very low s meter action.

Things done so far"
1. Cleaned all wafer switches with tarnx and used deosit to lube and wash tarnx off - this greatly helped receiver in all aspects!

2. Removed all the tubes and replaced with spare set

The audio is good and receiver seems to be sensitive when compared to other rigs in the shack.

3. The calibrator signal can be heard on all bands now and I can get about an S3-5 on some of the bands, some a bit lower.

Some of the alignment steps I cant do yet do to lack of test equipment.. I've ordered an RF signal generator, a frequency counter, and picked up a reconditioned VTVM with RF probe - these items are on the way.

I skipped alignment steps on Page 34 of R4B manual (steps 2 thru 6) as I have no 13.6 crystal.

Peaking all of the various band trimmer caps for each band helped quite a bit but still cant get S meter to work right.. It moves up on signals but wants to stay hard to the left.

I do have a fluke meter but dont think it will work regarding measuring tube voltages..

And no - I am not a professional radio service technician. Rather, I am trying to learn without destroying the equipment :)

1665. Re: [DrakeRadio] R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-24 16:59:45 UTC
From: Garey Barrell
Topic: 1664 Message: 1665

This comes up every once in a while, but Tarn-X on switch wafers is a _VERY_ bad idea. First of all, the black silver sulphide on the wafers is very soft, and does no harm to the continuity of the switch. If you look closely at a wafer that is blackened, you will see a very fine line of silver showing through, which is where the contact area is. The sulphide is very soft, and is easily displaced by the wiping action of the switch in normal operation. If a switch is unused for a period of time, the sulphide will "grow" back, but merely exercising the switch will restore operation. DeoxIT does help in cleaning and "protecting" the bright silver stripe, and slows the reforming of the sulphide. The other thing about sulphide is that it is "self-limiting", i.e., once it covers the bright silver, it stops "growing". On the other hand, Tarn-X is a chemical that in conjunction with moisture from the air actually corrodes the brass/copper base of the switch parts, and causes considerable damage if not removed entirely. Anyone who has worked on much electronic equipment has seen switches that have been damaged beyond repair by application and incomplete removal of "silver cleaners", both chemical and abrasive. They are for cleaning silverware, NOT for electronic equipment. By the way, DeoxIT is NOT an effective cleaner for silver cleaner residue, FLUSHING the area with a lot of water or alcohol is required to remove it. Bottom line is that silver cleaners have no business in electronic equipment, and cause far more harm than good. If you plan to display your receiver with the bottom off so viewers can see the bright, (non-functional} rotary switch parts, silver cleaners are useful..... Sorry for the rant, but I have seen more than a few switches damaged by silver cleaners that reduced the equipment to a parts unit.

Replacing all the tubes at once is also a bad idea. For one, not all New In Box tubes are actually good 40-50 years down the road. So it's conceivable that by replacing all at once that you have installed bad tube(s), and so discount tubes as a potential problem. This can lead to chasing your tail down a rabbit hole, because you "know" it's not a bad tube!! Much more effective to have a set of spares, and replace suspected problem tubes one at a time to see if any improvement is gained. Most likely your S-Meter problem is the result of a "bad" tube. First of all, there are four versions of the R-4B, each slightly different. So the first goal is to get a copy of the schematic for the unit you have. This can save lots of confusion! The S-Meter circuit is similar in all though, so may not be a problem. The S-Meter is a bridge circuit that compares the current drawn by V2 and V3 against the current drawn by V4 and V5. When these for stages are at "idle" with no signal applied, the bridge is "balanced" and no current flows through the meter. When a signal is applied, these currents change, unbalancing the bridge and causing the meter to read upscale. After a 15 minutes

warm-up, with the Preselector detuned, and with the RF GAIN control full CW, you should be able to adjust the S-Meter to Zero with the ZERO control on the right side of the receiver. Then turning the RF GAIN control full CCW, the S-Meter should read 60 dB over S-9. or full scale, adjusting if necessary by turning the pot R40, the blue trim-pot near the center of the chassis bottom. If these two conditions cannot be met, one or more of the four tubes is bad, and/or a resistor in the circuit has changed value. Most common problem is with the 12BA6 tubes in V4/V5, which become "gassy", causing the grid to "lose control" of the plate current. This particular problem tends to get worse as the tube heats up, causing the S-Meter reading to "drift" over time from turn-on. Even "new" tubes can be "gassy", and it is sometimes necessary to try two or three before finding a "good" one.

Unless a receiver has been "fixed" improperly, or has a defective tube or component, alignment can be completed with no additional test equipment. The Calibrator signal replaces the signal generator, and the S-Meter replaces an output indicator. The IF stages are very broad, and seldom require adjustment. Likewise the "filter match" alignment doesn't change by itself! This is the wrapped wires around the filter match transformer pins, and is best left alone unless it has been obviously "fixed" by someone else. It is a bit tricky to do, especially the first few times you do it, and is just not necessary. 95% of alignment problems are associated with the trimmer caps in the RF and INJ circuits. Merely setting the Preselector control as described by measuring the slug height, and peaking the associated trimmers at the specified frequencies will result in a good performing receiver. Use an insulated adjustment tool, and be especially careful to NOT short the trimmer to the chassis, even for a moment.

For your receiver, I would suggest making voltage and resistance measurements around V2, V3, V4 and V5 and investigate any deviation of more than 15-20%. Your Fluke meter should work just fine. Drake didn't always update the Voltage and Resistance tables when versions changed, so if a particular measurement is way off, check the correct schematic to see if the actual reading "makes sense". If these readings are all OK, then try substituting V2, V3, V4 and V5, ONE at a time, noting the S-Meter operation with each change.

A properly operating receiver should read S-9 plus on the Calibrator signal on all bands. Each harmonic is a little different, so if one reads low, try one or more either side.

Let us know if we can help!

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

WB7TXG wrote:
> S-meter wants to peg backwards and/or when signals are received
> very,very low s meter action.
>
> Things done so far"
> 1. Cleaned all wafer switches with tarnx and used deosit to lube and
> wash tarnx off - this greatly helped receiver in all aspects!
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> about an S3-5 on some of the bands, some a bit lower.
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> Some of the alignment steps I cant do yet do to lack of test
> equipment.. I've ordered an RF signal generator, a frequency counter,
> and picked up a reconditioned VTVM with RF probe - these items are on
> the way.
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> I skipped alignment steps on Page 34 of R4B manual (steps 2 thru 6)
> as I have no 13.6 crystal.
>
> Peaking all of the various band trimmer caps for each band helped
> quite a bit but still cant get S meter to work right.. It moves up on
> signals but wants to stay hard to the left.
>
> I do have a fluke meter but dont think it will work regarding
> measuring tube voltages..
>
> And no - I am not a professional radio service technician. Rather, I
> am trying to learn without destroying the equipment :)
>
>
>

1666. Drake 2B S-Meter Calibration/AVC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-25 15:35:23 UTC
From: py2xb
Topic: 1666 Message: 1666

Hello. Merry Xmas to all of you.

Still need some help on my 2-B that still on the bench.

I have calibrated the S-Meter using the manual instructions. The radio was turned on for a long time BTW. The process was straightforward. Too bad that even a 15Mohm voltmeter shunts the AVC line. The manual's procedure takes this in account.

Later I realized that when I turned the radio on again, the S-meter does not go to S1 right away. This is what happens: When I turn on the 2-B, the S-meter goes to around S9+10 and then goes down to S8. Then it starts a process that takes around 10 minutes until it goes to S1 (to the calibrated position).

I have verified the whole AVC circuit (resistors and capacitors). The AVC is working apparently well. It acts, as it should. I have also replaced the 6BF6 (AVC amplifier). Nothing changes this behavior.

I also realized that there is a slight change on the S meter S1 when the AVC is set from fast to slow (or vice versa). On Slow the S meter goes closer to S2.

When the "resting process" is happening, I've tried to monitor the AVC2 voltage with the VTVM or with an oscilloscope, but the measurement instrument's load difficult the task and even changes the S-meter position.

I do not think it has to do with heat because sometimes I turn the receiver off for few minutes and turn it on and all happens once again.

I am wondering if someone have experimented that and/or has any tip.

Thanks and regards Fred

[Non-text portions of this message have been removed]

1667. Need Jones connectors for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-26 23:03:05 UTC
From: Floyd Sense
Topic: 1667 Message: 1667

An acquaintance in Europe is in need of two connectors for a TR7 project. They're the 8 pin male (RV7 socket on TR7) and the 12 pin male (Access. socket on TR7). The usual sources listed on WB4HFN's page seem to have dried up or no longer stock both of those. Anyone happen to have one of each that they'd part with?

1668. Re: [DrakeRadio] Need Jones connectors for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-26 23:07:49 UTC
From: Garey Barrell
Topic: 1667 Message: 1668

Floyd -

This is the most reliable supplier I have found. So far they're batting
1.000! :-)

<http://www.electronicplus.com/content/ProductPage.asp?maincat=wc&subcat=wci>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Floyd Sense wrote:
> An acquaintance in Europe is in need of two connectors for a TR7
> project. They're the 8 pin male (RV7 socket on TR7) and the 12 pin
> male (Access. socket on TR7). The usual sources listed on WB4HFN's
> page seem to have dried up or no longer stock both of those. Anyone
> happen to have one of each that they'd part with?
>
>
>

1669. Re: [DrakeRadio] Need Jones connectors for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-27 01:19:53 UTC
From: DALE PARFITT
Topic: 1667 Message: 1669

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 26, 2008 6:07 PM
Subject: Re: [DrakeRadio] Need Jones connectors for TR7

Timely Cinch Jones URL Garey- as I was just looking for a M/F pair to make a jumper for my FF-1 for testing purposes. I had 6 and 12- but no 8's.

Tnx,

Dale W4OP

[Non-text portions of this message have been removed]

1670. TR-3 microphone suggestions ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-28 06:24:59 UTC
From: buzztrill
Topic: 1670 Message: 1670

hi
I HAVE a tr-3. i have tried 3 different mics on it, (2 of the D104 models, AND A YAESU desk mic. all of which dont seem to make the rf needle move forward enough, as though i am not getting strong output. although when i put it in cw mode, or transmit a carrier, my outboard meter shows 150 watts. NOT 10 watts, like with a microphone. i am starting to wonder if the problem is beyond the microphone, and somewhere within the radio.
any ideas?
thanks

1671. Re: [DrakeRadio] TR-3 microphone suggestions ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-28 18:23:57 UTC
From: DALE PARFITT
Topic: 1670 Message: 1671

----- Original Message -----
From: buzztrill
To: DrakeRadio@yahoogroups.com
Sent: Sunday, December 28, 2008 1:24 AM
Subject: [DrakeRadio] TR-3 microphone suggestions ??

hi
I HAVE a tr-3. i have tried 3 different mics on it, (2 of the D104 models, AND A YAESU desk mic. all of which dont seem to make the rf needle move forward enough, as though i am not getting strong output. although when i put it in cw mode, or transmit a carrier, my outboard meter shows 150 watts. NOT 10 watts, like with a microphone. i am starting to wonder if the problem is beyond the microphone, and somewhere within the radio.
any ideas?
thanks

I'll mimic what others have stated- and it's true. The Dake meters do not begin to respond to peaks (the rigs meter or the W-4). If you have a PEP wattmeter you'll get a much better idea of what the rig is doing. I use an EV-664 with excellent audio reports- AM and SSB.

DaleW4OP

1672. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-29 06:53:17 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1672

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1673. Re: TR-3 microphone suggestions ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-29 12:12:33 UTC
From: David Rose
Topic: 1670 Message: 1673

I use on my TR-3 a Shure 444 desk mike with excellent audio reports. On my C Line I use a D-104 pre-amp mike with again excellent reports. Just make sure if you use a preamp mike that the 9v battery is good.

Dave KW1V

[Non-text portions of this message have been removed]

1674. Re: [DrakeRadio] Re: TR-3 microphone suggestions ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2008-12-29 20:26:58 UTC
From: Marcelo Leo
Topic: 1670 Message: 1674

I utilize in my TR4C a standard capsule electrect (two pins) . I take diet of the voltage of filament. I have good reports of audio. The reports are not of the a stereo FM, but nobody has I speak badly of the audio.

Marcelo - LW2ETU

--- El lun 29-dic-08, David Rose <kw1v@...> escribió:
De: David Rose <kw1v@...>
Asunto: [DrakeRadio] Re: TR-3 microphone suggestions ??
Para: DrakeRadio@yahoogroups.com
Fecha: lunes, 29 de diciembre de 2008, 9:12 am

  I use on my TR-3 a Shure 444 desk mike with excellent audio reports. On my C Line I use a D-104 pre-amp mike with again excellent reports. Just make sure if you use a preamp mike that the 9v battery is good.

Dave KW1V

[Non-text portions of this message have been removed]

Yahoo! Cocina
Recetas prácticas y comida saludable
http://ar.mujer.yahoo.com/cocina/

[Non-text portions of this message have been removed]

1675. Drake 2B, 20 Meter band crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-02 06:17:14 UTC
From: querencias
Topic: 1675 Message: 1675

Have a great 2B but non-operational on 20 M - suspect the crystal, 10.5 MHz, as all other bands are sensitive and noisy. removed and replaced the crystal after carefully cleaning its
pins but still no joy...

anyone have a source for these crystals. love this receiver

73 Grant

1676. AC4R UPGRADE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-02 18:27:14 UTC
From: tnham63
Topic: 1676 Message: 1676

To the List,
I finally got My AC4R upgrade from Santa this year and put it in right away. Just a note to let all know I am another satisfied customer. The supply is now ready for another 30 years I hope.
Never saw anyone note how long it took, I spent about 5 hours putting mine together and all worked first time. All voltages were perfect. I feel better about the supply now.

Happy new year to all and thanks to all for your help through the year -- I really appreciate the knowledge on this list.

Keep the Drakes going
73
WINK
WA8KOQ

1677. t4x on cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-02 23:54:30 UTC
From: billjhs
Topic: 1677 Message: 1677

Hello to all and Happy New Year.
I am having a strange problem with my t4x/r4 setup on cw. It works fine on tune/am/lsb and usb. It just
doesn't work on CW.. I get the side tone on the r4 and the bias current shows up, but I don't get any rf
output. Fine on all other modes. any suggestions???
73
Bill
Wa2jhs

1678. Re: Drake 2B, 20 Meter band crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 01:22:20 UTC
From: Dean Hemphill
Topic: 1675 Message: 1678

Grant,

The stock crystal for the 20m band is 18.0 MHz. A 10.5 MHz crystal can be used if it is inserted in socket "C". See your manual for details. I happen to have an 18.0 MHz Drake 2B crystal in my parts stash. It is a new replacement part from International Crystal. I acquired it in a box-lot of crystals at a hamfest a while back. If you need it, give me your address and I'll send it to you.

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@...> wrote:
>
> Have a great 2B but non-operational on 20 M - suspect the crystal, 10.5 MHz, as all other
> bands are sensitive and noisy. removed and replaced the crystal after carefully cleaning its
> pins but still no joy...
>
> anyone have a source for these crystals. love this receiver
>
> 73 Grant
>

1679. Re: AC4R UPGRADE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 02:32:20 UTC
From: Wiley Clarkson
Topic: 1676 Message: 1679

Wink,

Good timing on this post. I have an AC4R board ready to install on my work bench right now! I plan to do it when the next really cold weather hits and i don't want to stick my nose outside!

73's

Wiley WA5OTR

--- In DrakeRadio@yahoogroups.com, "tnham63" <WA8KOQ@...> wrote:
>
> To the List,
> I finally got My AC4R upgrade from Santa this year and put it
> in right away. Just a note to let all know I am another
> satisfied customer. The supply is now ready for another
> 30 years I hope.
> Never saw anyone note how long it took, I spent about
> 5 hours putting mine together and all worked first time.
> All voltages were perfect. I feel better about the supply
> now.
>
> Happy new year to all and thanks to all for your help through
> the year -- I really appreciate the knowledge on this list.
>
> Keep the Drakes going
> 73
> WINK
> WA8KOQ
>

1680. Re: t4x on cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 02:40:55 UTC
From: Wiley Clarkson
Topic: 1677 Message: 1680

My T-4XC is doing something similar but not quite the same. When I key up, I see momentary output but the relay will not stay closed. I can hold the key down and the carrier will be momentary and then it switches back to receive. I can also hear the tone but only if the delay is turned to max and then it still won't hold in Xmt. I haven't been able to keep it in xmt long enough to actually see what my CW output is. I'm going to try a mod suggested by Drake for foot switch control of the xmt/rcv in CW and then see what it does.

I don't do much CW but I was able to purchase a Vibroplex Original on EBAY at a really good price a few weeks ago and now have the "bug" to do a little CW.

73's,

Wiley WA5OTR

--- In DrakeRadio@yahoogroups.com, billjhs <billjhs@...> wrote:
>
> Hello to all and Happy New Year.
> I am having a strange problem with my t4x/r4 setup on cw. It works fine
> on tune/am/lsb and usb. It just
> doesn't work on CW.. I get the side tone on the r4 and the bias current
> shows up, but I don't get any rf
> output. Fine on all other modes. any suggestions???
> 73
> Bill
> Wa2jhs
>

1681. Re: [DrakeRadio] Re: t4x on cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 02:58:41 UTC
From: Garey Barrell
Topic: 1677 Message: 1681

Wiley -

Make sure your ANTI-VOX isn't turned up too far.

IF the transmitter works OK in TUNE mode, the problem is in the VOX circuitry. There is a diode/cap network that sends a pulse at the beginning of each VOX trip to "yank" the relay in so you don't lose the first syllable or dit. That pulse is what causes your "momentary" transmit. The pulse is very short, and so on CW the sidetone is rectified and integrated to KEEP the relay closed during the transmission. IF the sidetone is NOT applied to the VOX as it should be, the relay drops out almost immediately.

One difference between SSB and CW is that on CW the sidetone is KEYED by biasing diode CR15 on or off. If this diode shorts, the symptom will be as you describe. Also, the positive voltage to bias this diode OFF, allowing the sidetone to pass and hold the VOX in, is applied through R84 and R85, each a 22M resistor. These resistors sometimes go up in resistance with age, and the result is insufficient reverse bias to turn the diode OFF.

There are other possibilities, including Bias supply problems, C107, etc., but usually it's the diode or resistors above.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Wiley Clarkson wrote:
> My T-4XC is doing something similar but not quite the same. When I
> key up, I see momentary output but the relay will not stay closed. I
> can hold the key down and the carrier will be momentary and then it
> switches back to receive. I can also hear the tone but only if the
> delay is turned to max and then it still won't hold in Xmt. I haven't
> been able to keep it in xmt long enough to actually see what my CW
> output is. I'm going to try a mod suggested by Drake for foot switch
> control of the xmt/rcv in CW and then see what it does.
>
> I don't do much CW but I was able to purchase a Vibroplex Original on
> EBAY at a really good price a few weeks ago and now have the "bug" to
> do a little CW.
>
> 73's,
>
> Wiley WA5OTR

>
>
> --- In DrakeRadio@yahoogroups.com, billjhs <billjhs@...> wrote:
>
>> Hello to all and Happy New Year.
>> I am having a strange problem with my t4x/r4 setup on cw. It works
>>
> fine
>
>> on tune/am/lsb and usb. It just
>> doesn't work on CW.. I get the side tone on the r4 and the bias
>>
> current
>
>> shows up, but I don't get any rf
>> output. Fine on all other modes. any suggestions???
>> 73
>> Bill
>> Wa2jhs
>>

1682. Re: [DrakeRadio] Re: AC4R UPGRADE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 03:35:54 UTC
From: Mike-K5VSE
Topic: 1676 Message: 1682

Congratulations on all you guys doing the AC-4 upgrade. When you've done enough of them, you will be able to do them in about 45 min. That's about what it takes me now, and I've done a few. All worked the first time. I'm still having trouble with the Harbach mod for the SB-200. I'm beginning to believe it's the 572B tubes. When I try to load it, my HV drops over 800 volts, and I read a negative grid current. I'll keep at this one, cuz I got way too much cash tied up in it. LOL And, yes I've checked the 33 ohm grid resistors, so don't try and tell me they are bad.

Happy New Year es 73 to all,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

1683. Re: R7 mute and AGC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 04:26:07 UTC
From: Dale Parfitt
Topic: 826 Message: 1683

Hi Floyd,
I just saw your post regarding wierd AGC pproblems on your R-7.
I had similar problems. No AGC in any setting except SLOW.
I checked everything and finally traced it to the pushbuttons too. I
sprayed them with DeOxit and everything has been fine since.
The FAST setting is still too fast, but others have seen the same, so
I am guessing this is as designed.

Dale W4OP

1684. Re: t4x on cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 10:25:42 UTC
From: Wiley Clarkson
Topic: 1677 Message: 1684

Garey,

Thanks for the tip. I'll take a look at it in a day or two and try a little readjustment. I looked at the schematic several days ago and had the thought cross my mind as an "I wonder if ....." but I saw the foot switch mod at the same time and thought that it might be handy, along with being a go around to the problem and never returned to thinking about what you said.

73's

Wiley

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wiley -
>
> Make sure your ANTI-VOX isn't turned up too far.
>
> IF the transmitter works OK in TUNE mode, the problem is in the VOX
> circuitry. There is a diode/cap network that sends a pulse at the
> beginning of each VOX trip to "yank" the relay in so you don't lose
the
> first syllable or dit. That pulse is what causes your "momentary"
> transmit. The pulse is very short, and so on CW the sidetone is
> rectified and integrated to KEEP the relay closed during the
> transmission. IF the sidetone is NOT applied to the VOX as it
should
> be, the relay drops out almost immediately.
>
> One difference between SSB and CW is that on CW the sidetone is
KEYED by
> biasing diode CR15 on or off. If this diode shorts, the symptom
will be
> as you describe. Also, the positive voltage to bias this diode
OFF,
> allowing the sidetone to pass and hold the VOX in, is applied
through
> R84 and R85, each a 22M resistor. These resistors sometimes go up
in
> resistance with age, and the result is insufficient reverse bias to
turn
> the diode OFF.
>
> There are other possibilities, including Bias supply problems,
C107,

> etc., but usually it's the diode or resistors above.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Wiley Clarkson wrote:
> > My T-4XC is doing something similar but not quite the same. When
I
> > key up, I see momentary output but the relay will not stay
closed. I
> > can hold the key down and the carrier will be momentary and then
it
> > switches back to receive. I can also hear the tone but only if
the
> > delay is turned to max and then it still won't hold in Xmt. I
haven't
> > been able to keep it in xmt long enough to actually see what my
CW
> > output is. I'm going to try a mod suggested by Drake for foot
switch
> > control of the xmt/rcv in CW and then see what it does.
> >
> > I don't do much CW but I was able to purchase a Vibroplex
Original on
> > EBAY at a really good price a few weeks ago and now have
the "bug" to
> > do a little CW.
> >
> > 73's,
> >
> > Wiley WA5OTR
> >
> >
> > --- In DrakeRadio@yahoogroups.com, billjhs <billjhs@> wrote:
> >
> >> Hello to all and Happy New Year.
> >> I am having a strange problem with my t4x/r4 setup on cw. It
works
> >>
> > fine
> >
> >> on tune/am/lsb and usb. It just
> >> doesn't work on CW.. I get the side tone on the r4 and the bias
> >>
> > current

> >
> >> shows up, but I don't get any rf
> >> output. Fine on all other modes. any suggestions???
> >> 73
> >> Bill
> >> Wa2jhs
> >>
>

1685. What Drake is better?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 17:41:10 UTC
From: Enrique Fernandez García
Topic: 826 Message: 1685

Happy New Year 2009 to the group!

I would like some advice in which receiver to buy since I have seen you are real experts on Drake receivers.

I am am mainly interested in AM stations, tropical bands, 49mb and Medium Wave stations, not SSB or CW.

I have already got a Drake R8B and I amnot very happy with it because it is very noisy in these bands,noise floor?
I have read in some reviews that the Drake R7A it is very good in these bands, I would like to buy also one R4B , it is said that it is very good too but the only inconvenient I find it is the crystals.
My questions are:
Is it worth buying the R7A or the R4b having the r8b? Will I listen the same stations with more clarity?

Or is it better to buy a better receceiver such as A Racal 17L or a Hammarlund Hq180a?

Any opinion is very wellcomed. Thank you very much

[Non-text portions of this message have been removed]

1686. t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 19:42:53 UTC
From: kd5aq
Topic: 1686 Message: 1686

I have a R4A and would like to have a T4X with ps if I can fing one reasonable.
Ron

1687. Re: [DrakeRadio] What Drake is better?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 20:21:47 UTC
From: Jerry Harley
Topic: 826 Message: 1687

Your antenna is going to have a lot to do with the noise. Horizontal dipoles will be quieter than verticals

1688. Re: [DrakeRadio] What Drake is better?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 21:16:27 UTC
From: Enrique Fernandez García
Topic: 826 Message: 1688

Thanks. Yes, I know about the noise and antennas.

I have got a Wellbrook 1530+ loop antenna, it is very quiet, but in tropical and 49mb with the Drake it is noisy. However, with another receiver, AOR AR 5000, it works with less noise.
I think that the Drake pick up or it has more noise floor.

--- El sáb, 3/1/09, Jerry Harley <wa2tti@...> escribió:

De: Jerry Harley <wa2tti@...>
Asunto: Re: [DrakeRadio] What Drake is better?
Para: DrakeRadio@yahoogroups.com
Fecha: sábado, 3 enero, 2009 9:21

Your antenna is going to have a lot to do with the noise. Horizontal
dipoles will be quieter than verticals

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1689. Re: [DrakeRadio] What Drake is better?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-03 23:46:20 UTC
From: rrkrr
Topic: 826 Message: 1689

I have found the R8B to be susceptible to noise pickup from the AC power line. I found substantial improvement by adding a power line filter.

Bob K4ERR

Enrique Fernandez Garc?a wrote:
>
>
>
> Happy New Year 2009 to the group!
>
> I would like some advice in which receiver to buy since I have seen
> you are real experts on Drake receivers.
>
> I am am mainly interested in AM stations, tropical bands, 49mb and
> Medium Wave stations, not SSB or CW.
>
> I have already got a Drake R8B and I amnot very happy with it because
> it is very noisy in these bands,noise floor?
> I have read in some reviews that the Drake R7A it is very good in
> these bands, I would like to buy also one R4B , it is said that it is
> very good too but the only inconvenient I find it is the crystals.
> My questions are:
> Is it worth buying the R7A or the R4b having the r8b? Will I listen
> the same stations with more clarity?
>
> Or is it better to buy a better receceiver such as A Racal 17L or a
> Hammarlund Hq180a?
>
> Any opinion is very wellcomed. Thank you very much
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

1690. AC4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 03:47:50 UTC
From: Wiley Clarkson
Topic: 1690 Message: 1690

Well, I guess it was a good thing ordering that upgrade when I did, which I started working on this morning. I had my T-4XC on my old AC3 PS and was going to try some adjustment of the antitrip on CW to see if it helped the short relay duration. I pulled the transmitter out from its normal position, felt some extra heat, and looked down into it. The finals were bright orange and the radio was showing output when it shouldn't. Guess I lost the bias voltage and it just picked that particular time to do it!

Regarding the AC4R upgrade: the only thing I have found so far that i don't like is the instruction sheets are not quite what I expected to go with the PCB, although they are adequate. They are a little vague in a few places so far and a color photo set down loadable from their web site would be helpful. For some one less experienced in electronics, they could be a little confussing. I'm about 1/3rd the way through the mod and have about 30 minutes involved so far.

1691. Re: [DrakeRadio] What Drake is better?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 11:57:38 UTC
From: Enrique Fernandez García
Topic: 826 Message: 1691

I have put some ferrite cores clipped onto the cable but no improvement at all.
I will purchase an AC filter then. I have been reading some reviews on eham and I.C.E./EMI filter,400 series are quite good for SW listening.
Thanks Bob.

--- El dom, 4/1/09, rrkrr <rrkrr@...> escribió:

De: rrkrr <rrkrr@...>
Asunto: Re: [DrakeRadio] What Drake is better?
Para: DrakeRadio@yahoogroups.com
Fecha: domingo, 4 enero, 2009 12:46

I have found the R8B to be susceptible to noise pickup from the AC power
line. I found substantial improvement by adding a power line filter.

Bob K4ERR

Enrique Fernandez García wrote:
>
>
>
> Happy New Year 2009 to the group!
>
> I would like some advice in which receiver to buy since I have seen
> you are real experts on Drake receivers.
>
> I am am mainly interested in AM stations, tropical bands, 49mb and
> Medium Wave stations, not SSB or CW.
>
> I have already got a Drake R8B and I amnot very happy with it because
> it is very noisy in these bands,noise floor?
> I have read in some reviews that the Drake R7A it is very good in
> these bands, I would like to buy also one R4B , it is said that it is
> very good too but the only inconvenient I find it is the crystals.
> My questions are:
> Is it worth buying the R7A or the R4b having the r8b? Will I listen
> the same stations with more clarity?
>
> Or is it better to buy a better receceiver such as A Racal 17L or a
> Hammarlund Hq180a?
>
> Any opinion is very wellcomed. Thank you very much
>
>
>
>

>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1692. Re: [Drakelist] Drake 2-B S-Meter Calibration/AVC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 15:01:50 UTC
From: py2xb@integral.com.br
Topic: 1692 Message: 1692

Dennis, Garey and everyone

Happy 2009 to you all. Ihave been absent for few days.

Indeed it was a "gassy" 6BA6 indeed which made all the trouble. For some reason during the quick swap I have not detected it was faulty the firts time.

A lot of learning in this 2-B restoration ! Thanks for all the inputs.

Fred - PY2XB

On Fri, 26 Dec 2008 16:41:07 -0200, "Dennis Monticelli" <dennis.monticelli@...> wrote:
> The minor changes to S-meter reading (transient or otherwise) as you
> introduce or remove AVC path components (Fast vs Slow and BFO) don't
> seem very revealing to me. The slow drift in the S-meter over several
> minutes is the revealing symptom. This latter behavior could be
> caused by a gassy tube whose grid is being fed from that very high
> impedance AVC line as Garey has suggested or by the grid having become
> contaminated and thus acting as a virtual cathode. So swapping out all
> those gain-control tubes with a fresh tube one at a time would be a
> good experiment.
>
> Dennis AE6C
>
> On Fri, Dec 26, 2008 at 3:26 AM, <py2xb@...> wrote:
>> Garey and Dennis, thanks agian for the inputs.
>>
>> Regarding tubes, I have replaced those afected by AVC/1 and AVC/2.
> Nothing
>> changed. Maybe I will need to try to redo this based on what Garey
> wrote. I
>> will get special attention to the 6BA6 which is driven by AVC/1.
>>
>> These are some effects that I would like to line up and make sure you
> have
>> the details
>>
>> - After 10-15 minutes Smeter goes to S1. If I turn the radio off and on
> it
>> will do again, but journey is
>> shorter. The S-meter will come from S4 to S1 in 5-6 minutes.
>> - During the journey to S1, after start up, if I am in Fast AVC and
> switch
>> to Slow (introducing the 1uf capacitor), the S meter's needle deeps to

> the
>> left and gets up again. I hear the RX background noise to pulse too. It
>> does that once.
>> - In any circusntance there is a slight S meter difference when I switch
>> from SAVC to FastAVC and vice-versa. In SAVC it reads about half S unit
>> more (to the right).
>> - I have realized that when th BFO is on, the S-Meter moves a bit do the
>> left.
>>
>> Normally I would answer to someone that would have posted something
> similar
>> to it that the AVC discharge path is malfunctioning. I have checked the
>> resistors in this path. I have also checked the time constant capacitor
> in
>> the AV/2 and AV/1 circuits.
>>
>> I will have time to check spurios oscillation and/or grid leak whan I
> get
>> back home. I will be away until year's eve or so.
>>
>> Please send any ideas that are very much welcome.
>>
>> Best regards Fred
>>
>>
>>
>> On Fri, 26 Dec 2008 04:19:24 -0200, Garey Barrell <k4oah@...>
>> wrote:
>>> Fred -
>>>
>>> I have been traveling and missed some of this thread. Try subbing
> tubes
>>> in the AVC stages. Often an IF tube will be gassy, and the grid will
>>> "lose control" after 5-20 minutes of warmup. The 12BA6 is particularly
>>> susceptible to this problem, even in "New Old Stock" tubes. You
>>> sometimes have to try three or four before finding a "good" one. The
>>> AVC circuit is so hi-z that it takes very little grid current to upset
>> it.
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>
>>>
>>>
>>> py2xb@... wrote:
>>>>
>>>> Dennis, merry xmas to you and yours, firts of all.

>>>>
>>>>
>>>>
>>>> Thanks for the input. I don not know if I my explanation was clear
>>>> enough. The long S-meter journey to S1 just occurs after power the
>>>> unit up and for 10 or so minutes. After that the behaivor is normal.
>>>> Yes my first shot was a opened path to discharge the AVC circuitry.
>>>> Unfortunately I have not found anything to blame. Did you consider
>>>> that after the initial pb the behaivor seems to be normal ? Regards
> Fred
>>>>
>>>
>>> _____
>>> Drakelist mailing list
>>> Drakelist@...
>>> http://mailman.zerobeat.net/mailman/listinfo/drakelist
>>
>> _____
>> Drakelist mailing list
>> Drakelist@...
>> http://mailman.zerobeat.net/mailman/listinfo/drakelist
>>

1693. Re: AC4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 18:44:36 UTC
From: w5rkl
Topic: 1690 Message: 1693

Yep, Wiley, a failed bias supply can create some pretty interesting things. It's surprising that quite a few hams don't realize this can happen, not only with Drake gear but other manufactured ham gear as well.

The exact same thing happened recently with a few Kenwood hybrid owners I know. One of the guys didn't know it was happening until he pressed the PTT button during a QSO and the IP current meter slammed full scale then the fuse blew. Removing the final tubes and checking the bias supply showed "zero bias voltage", a shorted bias filter capacitor, and a blown bias diode. This, along other supply failures, is why I do not rejuvenate or reform old worn and dried up filter capacitors.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Wiley Clarkson" <wclarkson@...> wrote:
>
> Well, I guess it was a good thing ordering that upgrade when I did,
> which I started working on this morning. I had my T-4XC on my old AC3
> PS and was going to try some adjustment of the antitrip on CW to see
> if it helped the short relay duration. I pulled the transmitter out
> from its normal position, felt some extra heat, and looked down into
> it. The finals were bright orange and the radio was showing output
> when it shouldn't. Guess I lost the bias voltage and it just picked
> that particular time to do it!
>
> Regarding the AC4R upgrade: the only thing I have found so far that i
> don't like is the instruction sheets are not quite what I expected to
> go with the PCB, although they are adequate. They are a little vague
> in a few places so far and a color photo set down loadable from their
> web site would be helpful. For some one less experienced in
> electronics, they could be a little confussing. I'm about 1/3rd the
> way through the mod and have about 30 minutes involved so far.
>

1694. Re: AC4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 19:29:39 UTC
From: Tim Stotenburg
Topic: 1690 Message: 1694

I have done both my ac3 and 4 ps with the upgrade. There was enough
of a difference on the ac3 (color coded wires and components) to make
me pay attention. The ac4 was a point a shoot.
But the upgrade was equally sucessful on both ps's.
Well worth it!
Tim

1695. Re: AC4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-04 19:57:47 UTC
From: Wiley Clarkson
Topic: 1690 Message: 1695

I guess I'll be ordering another upgrade before too long for my AC3 PS. I'm not much in to trying to save an old PS with old parts when something alot better is available. I just finished the board installation but haven't had time to test it yet. Probably tomorrow if I'm not working extra hours! I'm off to the salt mine as soon as I hit Send.

Wiley WA5OTR

--- In DrakeRadio@yahoogroups.com, "Tim Stotenburg" <timsmailbox2001-96460@...> wrote:
>
> I have done both my ac3 and 4 ps with the upgrade. There was enough
> of a difference on the ac3 (color coded wires and components) to make
> me pay attention. The ac4 was a point a shoot.
> But the upgrade was equally sucessful on both ps's.
> Well worth it!
> Tim
>

1696. 50K Ohm 50 Watt Resistor in L4B Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-05 01:50:08 UTC
From: wa4zzw
Topic: 1696 Message: 1696

I just lost one of these resistors in my L4B power supply. Their are two of them and I can see that one of them was replaced before I got the amp. It this a common problem and does it mean something else is wrong?
73's
Bob
WA4ZZW

1697. Re: [DrakeRadio] 50K Ohm 50 Watt Resistor in L4B Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-05 02:03:18 UTC
From: Mike-K5VSE
Topic: 1696 Message: 1697

I had the same problem a couple of years ago. I replaced both of them at the same time, and within 3 months another went out. I finally did the power supply upgrade and replaced both the resistors one more time. Since then, I've not had a problem. Also, with the upgrade, the regulation is much better. Fully loaded, the HV only drops about 200 volts. I have to assume the caps in the original Drake supply were getting a little dried out. I also noticed the heat build up in the power supply is not anywhere near what it was, indicating the caps were going south.

Just my personal thoughts.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

1698. Thanks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-05 02:51:02 UTC
From: WB7TXG
Topic: 3 Message: 1698

I'd like to extend a thanks to all the members on this board. The information contained in all the posts is worth its weight in gold!

A special thanks to K4OAH - Garey for all his help via emails getting my old R4B and TX4B back up and running. The receiver still needs a tad bit of work and troubleshooting but I'll leave well enough alone for now.

Garey's knowledge, patience, and help significantly aided my efforts with the R4B!

Lessons learned:
1. Dont change all the tubes at once and assume the new ones are good - one of mine wasn't (V2 - 6HS6) and I had a weak (V7 -6EH5).. these sure caused great grief with the S meter and AVC..

2. Don't use TARNX - I spent hours re-cleaning the bandswitches with alcohol to get the stuff off - I then sparingly used DEOXIT and put a light coating on the wafers

3. Make sure you are using the right schematic for your receiver - I had one that did not match my late model receiver - makes it hard to troubleshoot the circuits!

Many thanks again to all the folks that take the time, effort, and energy to post valuable information regarding the Drake line of equipment.

I hope that I can continue to learn from this forum and perhaps even contribute something that is useful for another person.

1699. Re: Drake 2B, 20 Meter band crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-05 10:24:19 UTC
From: py2xb
Topic: 1675 Message: 1699

Grant

Before you replace the cristal try to replace the 6U8 Tube by another one or by a 6EA8. I had a similar problem with a "non working 10m crystal". All crystals worked but the 10m one.
Tube replacement fixed the problem

HNY

Regards Fred - PY2XB

--- In DrakeRadio@yahoogroups.com, "Dean Hemphill" <k5dh@...> wrote:
>
> Grant,
>
> The stock crystal for the 20m band is 18.0 MHz. A 10.5 MHz crystal can
> be used if it is inserted in socket "C". See your manual for details.
> I happen to have an 18.0 MHz Drake 2B crystal in my parts stash. It is
> a new replacement part from International Crystal. I acquired it in a
> box-lot of crystals at a hamfest a while back. If you need it, give me
> your address and I'll send it to you.
>
> 73,
> Dean K5DH
>
> --- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@> wrote:
> >
> > Have a great 2B but non-operational on 20 M - suspect the crystal,
> 10.5 MHz, as all other
> > bands are sensitive and noisy. removed and replaced the crystal
> after carefully cleaning its
> > pins but still no joy...
> >
> > anyone have a source for these crystals. love this receiver
> >
> > 73 Grant
> >
>

1700. Re: Drake 2B, 20 Meter band crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-05 18:57:51 UTC
From: querencias
Topic: 1675 Message: 1700

Fred,

thanks for the tip -I'll give it a try as soon as I can dig up the tube

72 Grant

--- In DrakeRadio@yahoogroups.com, "py2xb" <py2xb@...> wrote:
>
> Grant
>
> Before you replace the cristal try to replace the 6U8 Tube by another
> one or by a 6EA8. I had a similar problem with a "non working 10m
> crystal". All crystals worked but the 10m one.
> Tube replacement fixed the problem
>
> HNY
>
> Regards Fred - PY2XB
>
>

1701. Drake 2B & K4OAH's CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-09 14:14:51 UTC
From: py2xb
Topic: 1701 Message: 1701

I have received Garey's CD for the Drake 2-B. Very nice collection of useful information plus a service manual with nice photos.
Certainly a good help.
Thanks Garey

Fred PY2XB

1702. t-4xc final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-10 21:53:35 UTC
From: Wiley Clarkson
Topic: 1702 Message: 1702

When I lost the bias voltage the other day, I was able to shut the transmitter off prior to a total destruction of the finals but it did weaken them and lower the output by about 40%. Anyone know a good retail source for final amp tubes that are matched and what tube brands work the best?

BTW, the AC4 upgrade I did went smoothly and took less than 2 hours. The AC3 ps that I lost the bias on will be the next upgrade and I'll bet it doesn't go as fast!

1703. Re: [DrakeRadio] t-4xc final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-11 03:39:24 UTC
From: Dan Galligan
Topic: 1702 Message: 1703

Try RF Parts in Oceanside, or Carlsbad, CA. They still have a pretty good selection of many of the obsolete tubes, if my memory serves me correctly. Otherwise I have little doubt that there are those here, who have them for sale, too.
Dan Galligan
W3RXO

On Jan 10, 2009, at 1:53 PM, Wiley Clarkson wrote:

When I lost the bias voltage the other day, I was able to shut the transmitter off prior to a total destruction of the finals but it did weaken them and lower the output by about 40%. Anyone know a good retail source for final amp tubes that are matched and what tube brands work the best?

BTW, the AC4 upgrade I did went smoothly and took less than 2 hours. The AC3 ps that I lost the bias on will be the next upgrade and I'll bet it doesn't go as fast!

Yahoo! Groups Links

1704. Re: [DrakeRadio] t-4xc final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-11 12:55:01 UTC
From: Michael Schlicher
Topic: 1702 Message: 1704

Try Antique Electronic Supply out of Arizonia They sell matched tubes. Also Drake was known for using Sylvania brand tubes in their radios

--- On Sat, 1/10/09, Dan Galligan <w3rxo@...> wrote:

From: Dan Galligan <w3rxo@...>
Subject: Re: [DrakeRadio] t-4xc final tubes
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 10, 2009, 10:39 PM

Try RF Parts in Oceanside, or Carlsbad, CA. They still have a pretty good selection of many of the obsolete tubes, if my memory serves me correctly. Otherwise I have little doubt that there are those here, who have them for sale, too.
Dan Galligan
W3RXO

On Jan 10, 2009, at 1:53 PM, Wiley Clarkson wrote:

When I lost the bias voltage the other day, I was able to shut the transmitter off prior to a total destruction of the finals but it did weaken them and lower the output by about 40%. Anyone know a good retail source for final amp tubes that are matched and what tube brands work the best?

BTW, the AC4 upgrade I did went smoothly and took less than 2 hours. The AC3 ps that I lost the bias on will be the next upgrade and I'll bet it doesn't go as fast!

------------ --------- --------- ------

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1705. Re: [DrakeRadio] t-4xc final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-11 13:58:15 UTC
From: Michael Shelly
Topic: 1702 Message: 1705

Also try this site. I know they have a lot of Collins
tubeshttp://www.surplussales.com/Collins/Collins.html

Mike
WB2KKI
T-4xc

--- On Sun, 1/11/09, Michael Schlicher <wb8ure@...> wrote:

From: Michael Schlicher <wb8ure@...>
Subject: Re: [DrakeRadio] t-4xc final tubes
To: DrakeRadio@yahoogroups.com
Date: Sunday, January 11, 2009, 7:55 AM

Try Antique Electronic Supply out of Arizonia They sell matched tubes. Also Drake was known for using Sylvania brand tubes in their radios

--- On Sat, 1/10/09, Dan Galligan <w3rxo@...> wrote:

From: Dan Galligan <w3rxo@...>
Subject: Re: [DrakeRadio] t-4xc final tubes
To: DrakeRadio@yahoogro ups.com
Date: Saturday, January 10, 2009, 10:39 PM

Try RF Parts in Oceanside, or Carlsbad, CA. They still have a pretty
good selection of many of the obsolete tubes, if my memory serves me
correctly. Otherwise I have little doubt that there are those here,
who have them for sale, too.
Dan Galligan
W3RXO

On Jan 10, 2009, at 1:53 PM, Wiley Clarkson wrote:

When I lost the bias voltage the other day, I was able to shut the
transmitter off prior to a total destruction of the finals but it did
weaken them and lower the output by about 40%. Anyone know a good
retail source for final amp tubes that are matched and what tube
brands work the best?

BTW, the AC4 upgrade I did went smoothly and took less than 2 hours.
The AC3 ps that I lost the bias on will be the next upgrade and I'll
bet it doesn't go as fast!

------------ --------- --------- ------

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1706. Re: [DrakeRadio] t-4xc final tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-11 16:13:42 UTC
From: g4jss@tiscali.co.uk
Topic: 1702 Message: 1706

Hi

Been watching this. What are the general prices in the U.S. for these tubes? In the UK they seem to run at around GBP£39 each which puts them around US$90 for a pair.

Somewhere on this reflector I am sure I read that the 6GJ5 was a good substitute and half the price.I may have got that wrong it could have been 6JG5. Mike or Gary would know.

73

Vic

----Original Message----
From: wb2kki@...
Date: 11/01/2009 13:58
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] t-4xc final tubes

Also try this site. I know they have a lot of Collins
tubeshttp://www.surplussales.com/Collins/Collins.html

Mike
WB2KKI
T-4xc

--- On Sun, 1/11/09, Michael Schlicher <wb8ure@...> wrote:

From: Michael Schlicher <wb8ure@yahoo.com>
Subject: Re: [DrakeRadio] t-4xc final tubes
To: DrakeRadio@yahoogroups.com
Date: Sunday, January 11, 2009, 7:55 AM

Try Antique Electronic Supply out of Arizonia They sell matched tubes. Also Drake was known for using Sylvania brand tubes in their radios

--- On Sat, 1/10/09, Dan Galligan <w3rxo@...> wrote:

From: Dan Galligan <w3rxo@...>
Subject: Re: [DrakeRadio] t-4xc final tubes
To: DrakeRadio@yahoogro ups.com
Date: Saturday, January 10, 2009, 10:39 PM

Try RF Parts in Oceanside, or Carlsbad, CA. They still have a pretty
good selection of many of the obsolete tubes, if my memory serves me
correctly. Otherwise I have little doubt that there are those here,
who have them for sale, too.
Dan Galligan
W3RXO

On Jan 10, 2009, at 1:53 PM, Wiley Clarkson wrote:

When I lost the bias voltage the other day, I was able to shut the transmitter off prior to a total destruction of the finals but it did weaken them and lower the output by about 40%. Anyone know a good retail source for final amp tubes that are matched and what tube brands work the best?

BTW, the AC4 upgrade I did went smoothly and took less than 2 hours. The AC3 ps that I lost the bias on will be the next upgrade and I'll bet it doesn't go as fast!

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Yahoo! Groups Links

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[Non-text portions of this message have been removed]

Get 50% off Norton Security 2009 - http://www.tiscali.co.uk/security
_____

[Non-text portions of this message have been removed]

1707. Re: Drake 2B, 20 Meter band crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-11 20:59:33 UTC
From: querencias
Topic: 1675 Message: 1707

Dean,

received the crystal yesterday. A very generous act in the true spirit of HAM radio - many thanks.

Unfortunatel, getting to depart the country for 4 weeks but will test the crystal when we return

many thanks, 73

Grant

--- In DrakeRadio@yahoogroups.com, "Dean Hemphill" <k5dh@...> wrote:
>
> Grant,
>
> The stock crystal for the 20m band is 18.0 MHz. A 10.5 MHz crystal can
> be used if it is inserted in socket "C". See your manual for details.
> I happen to have an 18.0 MHz Drake 2B crystal in my parts stash. It is
> a new replacement part from International Crystal. I acquired it in a
> box-lot of crystals at a hamfest a while back. If you need it, give me
> your address and I'll send it to you.
>
> 73,
> Dean K5DH
>

1708. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-12 06:09:19 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1708

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1710. VERY dirty drake B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-12 21:18:50 UTC
From: n8cep
Topic: 1710 Message: 1710

I have an r-4b and t-4xb which I was going to try to clean up
(the chassis are REALLY dirty). I have been a bit afraid to
test the transmitter and power supply due to their condition.
The fronts are pretty good but one problem is the dial ring
on the r-4b is faded to a dark yellow on one end of the dial.
I am pretty sure there is no way to solve this. I think I may
use these for parts and look for another pair in better shape.
(cleaning these up is a bit beyond my abilities. Can anyone help?)

If anyone has an B-line for sale, contact me. It doesn't
have to be perfect but should be fair cosmetically and darn good
electrically. I have a rebuild kit for the power supply. I just
missed out on a r-4b listed on eHam.

Keith Hamilton
tuner@zoominternet.net

1711. drake tr-4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-12 22:37:44 UTC
From: Jim Jacobs
Topic: 1711 Message: 1711

hello to all , i am happy to be a member of the group.
i just received a tr-4x transmitter this past week end along with the power supply, it has not been used since 1976, was put in a cabinet and sat there untill i purchased it last week end,
my question is, where should i start on bringing this set up back to life, where do i began, i am not going to power it up untill i replace the filter caps in the power supply but where do i begin with the transmitter before i apply power to it,
i know a little about radios, mostly tinkerer and would apreciate any information i can use,,, thanks in advance,,,,,,,,,,,,,,, jim

1712. Re: VERY dirty drake B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-12 22:41:00 UTC
From: Jim Jacobs
Topic: 1710 Message: 1712

--- In DrakeRadio@yahoogroups.com, "n8cep" <n8cep@...> wrote:
>
> I have an r-4b and t-4xb which I was going to try to clean up
> (the chassis are REALLY dirty). I have been a bit afraid to
> test the transmitter and power supply due to their condition.
> The fronts are pretty good but one problem is the dial ring
> on the r-4b is faded to a dark yellow on one end of the dial.
> I am pretty sure there is no way to solve this. I think I may
> use these for parts and look for another pair in better shape.
> (cleaning these up is a bit beyond my abilities. Can anyone help?)
>
> If anyone has an B-line for sale, contact me. It doesn't
> have to be perfect but should be fair cosmetically and darn good
> electrically. I have a rebuild kit for the power supply. I just
> missed out on a r-4b listed on eHam.
>
> Keith Hamilton
> tuner@...
>hello, i was wondering if you could tell me where to get the rebuild
kit for the power supply, i just bought one that needs it, been sitting
for 33 years, i apreciate any info you could give me, thank you,,,,,,
jim

1713. Re: [DrakeRadio] Re: VERY dirty drake B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-12 22:56:58 UTC
From: Garey Barrell
Topic: 1710 Message: 1713

Jim -

The AC-4R Power Supply rebuild kit is available from The Heathkit Shop at

<http://www.theheathkitshop.com/page6/page6.html>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Jacobs wrote:
>> hello, i was wondering if you could tell me where to get the rebuild
>>
> kit for the power supply, i just bought one that needs it, been sitting
> for 33 years, i apreciate any info you could give me, thank you,,,,,,
> jim
>
>
>
>

1714. Re: VERY dirty drake B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-13 00:06:42 UTC
From: n8cep
Topic: 1710 Message: 1714

--- In DrakeRadio@yahoogroups.com, "Jim Jacobs" <jacobs132@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, "n8cep" <n8cep@> wrote:
> >
> > I have an r-4b and t-4xb which I was going to try to clean up
> > (the chassis are REALLY dirty). I have been a bit afraid to
> > test the transmitter and power supply due to their condition.
> > The fronts are pretty good but one problem is the dial ring
> > on the r-4b is faded to a dark yellow on one end of the dial.
> > I am pretty sure there is no way to solve this. I think I may
> > use these for parts and look for another pair in better shape.
> > (cleaning these up is a bit beyond my abilities. Can anyone help?)
> >
> > If anyone has an B-line for sale, contact me. It doesn't
> > have to be perfect but should be fair cosmetically and darn good
> > electrically. I have a rebuild kit for the power supply. I just
> > missed out on a r-4b listed on eHam.
> >
> > Keith Hamilton
> > tuner@
> >hello, i was wondering if you could tell me where to get the rebuild
> kit for the power supply, i just bought one that needs it, been sitting
> for 33 years, i apreciate any info you could give me, thank you,,,,,,
> jim
>

The ac-4 rebuild kits are at www.theheathkitshop.com YES, he sells
stuff for heathkits but he also sell the AC4R kit for Drake power
supplies.

73 W8GX Keith

1715. Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-14 22:47:53 UTC
From: d104_1
Topic: 1686 Message: 1715

--- In DrakeRadio@yahoogroups.com, "kd5aq" <fbaker@...> wrote:
>
> I have a R4A and would like to have a T4X with ps if I can fing one
> reasonable.
> Ron
>
What would you consider a reasonable price for a T4X with power supply?

You can also email me at d104_1@....

Francis

1716. Re: [DrakeRadio] Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 00:00:24 UTC
From: Michael Shelly
Topic: 1686 Message: 1716

I would watch e-bay for a month or two and take an average. You muct keep in mind though condition and if tested good. They will all be as is but maybe 7 day money back. Just got a t-4xc for about 350 and picked up a p/s for about 150. Both very good condition and tested working. Just hooked them up and as advertised.
Mike
WB2KKI

--- On Wed, 1/14/09, d104_1 <d104_1@yahoo.com> wrote:

From: d104_1 <d104_1@...>
Subject: [DrakeRadio] Re: t4x
To: DrakeRadio@yahoogroups.com
Date: Wednesday, January 14, 2009, 5:47 PM

--- In DrakeRadio@yahoogro ups.com, "kd5aq" <fbaker@...> wrote:
>
> I have a R4A and would like to have a T4X with ps if I can fing one
> reasonable.
> Ron
>
What would you consider a reasonable price for a T4X with power supply?

You can also email me at d104_1@yahoo. com.

Francis

[Non-text portions of this message have been removed]

1717. Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 14:08:22 UTC
From: w5rkl
Topic: 1686 Message: 1717

Any AC3 or AC4 will power a T4<any> transmitter or TR3/4<any> transceiver.

Most AC3 and AC4 power supplies contain original components, diodes, resistors, and filter capacitors. These components age and with capacitors, the internal leakage current becomes high with age. A capacitor with a high leakage current can eventually result in an open or shorted capacitor which can lead to hum or, worse yet, failure in the supply. If the failure is in the bias supply, the final tubes are affected, even in standby.

The bias supply provides normal operating bias voltage to the transmitter plus it cuts the final tubes off in standby. A bias supply that produces zero bias voltage, even in standby, can result in damage to the final tubes!

So, don't take the chance, replace those capacitors, resistors, and diodes, with new components or install Mike Bryce's AC4 upgrade kit from "The Heathkit Shop". Your AC3 or AC4 and transmitter/transceiver will thank you for it.

As always, it is your choice to make whether to update the supply with new components/upgrade kit, or simply operate the supply as is. You should ask yourself which is more important, operating the transmitter/transceiver with an aging supply that can, if it fails, take out the final tubes plus possible damage to other circuits/components or not operate the AC3/AC4 supply with the transmitter/transceiver until the supply is upgraded? Again, it is your choice which route you take. I'm only providing information so you can make a decision regarding your AC3 or AC4 supply in hopes of preventing damage to your supply, transmitter, or transceiver, nothing more!

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Michael Shelly <wb2kki@...> wrote:
>
> I would watch e-bay for a month or two and take an average. You muct keep in mind though condition and if tested good. They will all be as is but maybe 7 day money back. Just got a t-4xc for about 350 and picked up a p/s for about 150. Both very good condition and tested working. Just hooked them up and as advertised.
> Mike
> WB2KKI
>

> --- On Wed, 1/14/09, d104_1 <d104_1@...> wrote:
>
> From: d104_1 <d104_1@...>
> Subject: [DrakeRadio] Re: t4x
> To: DrakeRadio@yahoogroups.com
> Date: Wednesday, January 14, 2009, 5:47 PM
>
>
>
>
>
>
> --- In DrakeRadio@yahoogro ups.com, "kd5aq" <fbaker@> wrote:
> >
> > I have a R4A and would like to have a T4X with ps if I can fing one
> > reasonable.
> > Ron
> >
> What would you consider a reasonable price for a T4X with power supply?
>
> You can also email me at d104_1@yahoo. com.
>
> Francis
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> [Non-text portions of this message have been removed]
>

1718. Cleaning Chemicals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 15:05:54 UTC
From: John E. Beck
Topic: 1718 Message: 1718

Greetings from a cold Kansas City.

First of all, thanks to all on the board who have contributed from their knowledge and experience. It has no doubt saved us from a variety of mis-steps.

We just acquired a beautiful set of Drake twins (R4B and T4XB) and are in the process of bringing them back to their full potential. The first general cleaning and initial power tests went very well. This set was from an estate and appears to have the original Sylvania tubes.

I read in previous posts that Deoxit has been recommended as a switch cleaner and Tarnix is a "no-no". Has anyone had any experience using some of the other brands of cleaner-lubricants, such as MG Chemical Contact Cleaner?

Thank you in advance for your insight.

73,
John (WB0RXL) & Katherine (AA0IS)

1719. Re: [DrakeRadio] Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 15:30:04 UTC
From: g4jss@tiscali.co.uk
Topic: 1686 Message: 1719

Mike

Been following this discourse and very interested. My AC-4 works fine but it is an original and won't last forever. Have tried the Heathkit shop for AC4R re shipping to UK but no reply as yet. Is there any particular reason why changing the caps wouldn't ensure a longer life for the AC-4?- or, if you change one part of the cct making it stronger are you imposing stress on the older parts - diodes etc.?

Regards

Vic - G4JSS
----Original Message----
From: w5rkl@...
Date: 15/01/2009 14:08
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: t4x

Any AC3 or AC4 will power a T4<any> transmitter or TR3/4<any> transceiver.

Most AC3 and AC4 power supplies contain original components, diodes, resistors, and filter capacitors. These components age and with capacitors, the internal leakage current becomes high with age. A capacitor with a high leakage current can eventually result in an open or shorted capacitor which can lead to hum or, worse yet, failure in the supply. If the failure is in the bias supply, the final tubes are affected, even in standby.

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As always, it is your choice to make whether to update the supply with new components/upgrade kit, or simply operate the supply as is. You should ask yourself which is more important, operating the transmitter/transceiver with an aging supply that can, if it fails, take out the final tubes plus possible damage to other circuits/components or not operate the AC3/AC4 supply with the transmitter/transceiver until the supply is upgraded? Again, it is your choice which route you take. I'm only providing information so you can make a decision regarding your AC3 or AC4 supply in hopes of preventing damage to your supply, transmitter, or transceiver, nothing

more!

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Michael Shelly <wb2kki@...> wrote:
>
> I would watch e-bay for a month or two and take an average. You muct keep in mind though condition and if tested good. They will all be as is but maybe 7 day money back. Just got a t-4xc for about 350 and picked up a p/s for about 150. Both very good condition and tested working. Just hooked them up and as advertised.
> Mike
> WB2KKI
>
> --- On Wed, 1/14/09, d104_1 <d104_1@...> wrote:
>
> From: d104_1 <d104_1@...>
> Subject: [DrakeRadio] Re: t4x
> To: DrakeRadio@yahoogroups.com
> Date: Wednesday, January 14, 2009, 5:47 PM
>
>
>
>
>
>
> --- In DrakeRadio@yahoogro ups.com, "kd5aq" <fbaker@> wrote:
> >
> > I have a R4A and would like to have a T4X with ps if I can fing one
> > reasonable.
> > Ron
> >
> What would you consider a reasonable price for a T4X with power supply?
>
> You can also email me at d104_1@yahoo. com.
>
> Francis
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>

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---

[Non-text portions of this message have been removed]

1720. Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 16:18:46 UTC
From: w5rkl
Topic: 1686 Message: 1720

Vic,

Power supply stress is based on the current demand placed on the supply by the circuit the supply feeds. In the case of a failed bias supply, for example, the HV supply is put under a lot of stress simply because the high current flowing in the final tubes due to the absence of the bias voltage from the bias supply.

Replacing power supply component can allow the AC4 supply to continue operating for longer periods of time. Failures in supplies, if they are not overstessed by abusing operators, will last quite a long time. Most failures occur due to age and, in some instances, abuse by operators. Abuse can be classified as pushing final tubes for those last few extra watts which puts a lot of stress on the HV supply, for example. The transformer HV windings are also stressed due to the increase current demand placed on it by pushing the final tubes at or over their limits. So, to answer your question, it depends on what circuit is placing the high demand and to what supplies. In general, the AC4 supply can be overstressed by just about anything.

Whether you choose to use individual components or the AC4 upgrade kit it your choice. I will tell you, from first hand experience, to upgrade an AC3 or AC4 can be quite a task using individual capacitors. I don't recommend it as I considered doing it that way. However, I have since changed my mind after a through inspection and rethinking of updating my AC4 supply. The AC4 upgrade kit is the way to go. I do not recommend NOS capacitors since NOS caps are just as old as the ones you are replacing. I do not rejuvinate or reform capacitors. There are those who do but I don't. The question you should ask yourself is, do I want to do it right the first time or will I have to go back in and redo it again later? Again, the choice is yours to make.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Mike
>
> Been following this discourse and very interested. My AC-4 works fine but it is an original and won't last forever. Have tried the Heathkit shop for AC4R re shipping to UK but no reply as yet. Is there any particular reason why changing the caps wouldn't ensure a longer life for the AC-4?- or, if you change one part of the cct making it

stronger are you imposing stress on the older parts - diodes etc.?
>
> Regards
>
> Vic - G4JSS
> ----Original Message----
> From: w5rkl@...
> Date: 15/01/2009 14:08
> To: <DrakeRadio@yahoogroups.com>
> Subj: [DrakeRadio] Re: t4x
>
>
>
>
>
>
>
> Any AC3 or AC4 will power a T4<any> transmitter or TR3/4<any>
transceiver.
>
> Most AC3 and AC4 power supplies contain original components, diodes,
> resistors, and filter capacitors. These components age and with
> capacitors, the internal leakage current becomes high with age. A
> capacitor with a high leakage current can eventually result in an open
> or shorted capacitor which can lead to hum or, worse yet, failure in
> the supply. If the failure is in the bias supply, the final tubes are
> affected, even in standby.
>
> The bias supply provides normal operating bias voltage to the
> transmitter plus it cuts the final tubes off in standby. A bias supply
> that produces zero bias voltage, even in standby, can result in damage
> to the final tubes!
>
> So, don't take the chance, replace those capacitors, resistors, and
> diodes, with new components or install Mike Bryce's AC4 upgrade kit
> from "The Heathkit Shop". Your AC3 or AC4 and transmitter/transceiver
> will thank you for it.
>
> As always, it is your choice to make whether to update the supply with
> new components/upgrade kit, or simply operate the supply as is. You
> should ask yourself which is more important, operating the
> transmitter/transceiver with an aging supply that can, if it fails,
> take out the final tubes plus possible damage to other
> circuits/components or not operate the AC3/AC4 supply with the
> transmitter/transceiver until the supply is upgraded? Again, it is
> your choice which route you take. I'm only providing information so
> you can make a decision regarding your AC3 or AC4 supply in hopes of
> preventing damage to your supply, transmitter, or transceiver, nothing
> more!
>

> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, Michael Shelly <wb2kki@> wrote:
> >
> > I would watch e-bay for a month or two and take an average. You muct
> keep in mind though condition and if tested good. They will all be as
> is but maybe 7 day money back. Just got a t-4xc for about 350 and
> picked up a p/s for about 150. Both very good condition and tested
> working. Just hooked them up and as advertised.
> > Mike
> > WB2KKI
> >
> > --- On Wed, 1/14/09, d104_1 <d104_1@> wrote:
> >
> > From: d104_1 <d104_1@>
> > Subject: [DrakeRadio] Re: t4x
> > To: DrakeRadio@yahoogroups.com
> > Date: Wednesday, January 14, 2009, 5:47 PM
> >
> >
> >
> >
> >
> >
> > --- In DrakeRadio@yahoogro ups.com, "kd5aq" <fbaker@> wrote:
> > >
> > > I have a R4A and would like to have a T4X with ps if I can fing one
> > > reasonable.
> > > Ron
> > >
> > What would you consider a reasonable price for a T4X with power
supply?
> >
> > You can also email me at d104_1@yahoo. com.
> >
> > Francis
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> Get 50% off Norton Security 2009 - http://www.tiscali.co.uk/security
> ~~~~~~
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> [Non-text portions of this message have been removed]
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1721. Re: Cleaning Chemicals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 16:35:44 UTC
From: w5rkl
Topic: 1718 Message: 1721

John,

I do not have any experience with the cleaning chemicals you mentioned. I have used Simple Green followed with water to clean cabinets, front panels, and knobs. Simple Green will remove just about anything, with a few limitations, but what ever is cleaned with Simple Green must be washed in water after-wards to remove the residue left by Simple Green.

I use Windex on glass to remove finger prints and grease. I also use Armor-all after cleaning front panels and cabinets. It makes the cabinets looks very nice. However, do not over do it with Armor-all as it will leave a greasy feeling. Just a very light coating is all that is needed.

DeoXit is an excellent contact cleaner. Use only small amounts on switches and pots. Follow it with canned air to remove the excess DeoXit. Canned air also helps remove anything left behind by the DeoXit cleaning process. A little goes a long way so use it sparingly.

Read the cautions on all cleaning chemicals. Some chemicals can remove lettering and paint. When using contact cleaner, read the cautions on the can. Contact cleaner is "flammable" and it only takes a small spark to ignite it. Do not soak switches and/or pots. Again, a little goes a long way.

Just use caution and read the cleaner's label before using. If there's any doubt, don't use it!! Mild soap and warm water does wonders in cleaning!!

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "John E. Beck" <wb0rxl@...> wrote:
>
> Greetings from a cold Kansas City.
>
> First of all, thanks to all on the board who have contributed from
> their knowledge and experience. It has no doubt saved us from a
> variety of mis-steps.
>
> We just acquired a beautiful set of Drake twins (R4B and T4XB) and
> are in the process of bringing them back to their full potential.
> The first general cleaning and initial power tests went very well.
> This set was from an estate and appears to have the original Sylvania
> tubes.

>
> I read in previous posts that Deoxit has been recommended as a switch
> cleaner and Tarnix is a "no-no". Has anyone had any experience using
> some of the other brands of cleaner-lubricants, such as MG Chemical
> Contact Cleaner?
>
> Thank you in advance for your insight.
>
> 73,
> John (WB0RXL) & Katherine (AA0IS)
>

1722. Re: [DrakeRadio] Re: t4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-15 18:30:57 UTC
From: g4jss@tiscali.co.uk
Topic: 1686 Message: 1722

Mike

Thanks for very detailed and informative info.

I think you final sentence sums it up which basically equates to either do it right the first time or risk having to do it again - and perhaps the rig as well!!

Many thanks

Vic
----Original Message----
From: w5rkl@...
Date: 15/01/2009 16:18
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: t4x

Vic,

Power supply stress is based on the current demand placed on the supply by the circuit the supply feeds. In the case of a failed bias supply, for example, the HV supply is put under a lot of stress simply because the high current flowing in the final tubes due to the absence of the bias voltage from the bias supply.

Replacing power supply component can allow the AC4 supply to continue operating for longer periods of time. Failures in supplies, if they are not overstessed by abusing operators, will last quite a long time. Most failures occur due to age and, in some instances, abuse by operators. Abuse can be classified as pushing final tubes for those last few extra watts which puts a lot of stress on the HV supply, for example. The transformer HV windings are also stressed due to the increase current demand placed on it by pushing the final tubes at or over their limits. So, to answer your question, it depends on what circuit is placing the high demand and to what supplies. In general, the AC4 supply can be overstressed by just about anything.

Whether you choose to use individual components or the AC4 upgrade kit it your choice. I will tell you, from first hand experience, to upgrade an AC3 or AC4 can be quite a task using individual capacitors. I don't recommend it as I considered doing it that way. However, I have since changed my mind after a through inspection and rethinking of updating my AC4 supply. The AC4 upgrade kit is the way to go. I do not recommend NOS capacitors since NOS caps are just as old as the ones you are replacing. I do not rejuvinate or reform capacitors. There are those who do but I don't. The question you should ask yourself is, do I want to do it right the first time or will I have to go back in and redo it again later? Again, the choice is yours to make.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Mike
>
> Been following this discourse and very interested. My AC-4 works
fine but it is an original and won't last forever. Have tried the
Heathkit shop for AC4R re shipping to UK but no reply as yet. Is there
any particular reason why changing the caps wouldn't ensure a longer
life for the AC-4?- or, if you change one part of the cct making it
stronger are you imposing stress on the older parts - diodes etc.?
>
> Regards
>
> Vic - G4JSS
> ----Original Message----
> From: w5rkl@...
> Date: 15/01/2009 14:08
> To: <DrakeRadio@yahoogroups.com>
> Subj: [DrakeRadio] Re: t4x
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> Any AC3 or AC4 will power a T4<any> transmitter or TR3/4<any>
transceiver.
>
> Most AC3 and AC4 power supplies contain original components, diodes,
> resistors, and filter capacitors. These components age and with
> capacitors, the internal leakage current becomes high with age. A
> capacitor with a high leakage current can eventually result in an open
> or shorted capacitor which can lead to hum or, worse yet, failure in
> the supply. If the failure is in the bias supply, the final tubes are
> affected, even in standby.
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> The bias supply provides normal operating bias voltage to the
> transmitter plus it cuts the final tubes off in standby. A bias supply
> that produces zero bias voltage, even in standby, can result in damage
> to the final tubes!
>
> So, don't take the chance, replace those capacitors, resistors, and
> diodes, with new components or install Mike Bryce's AC4 upgrade kit
> from "The Heathkit Shop". Your AC3 or AC4 and transmitter/transceiver
> will thank you for it.

>
> As always, it is your choice to make whether to update the supply with
> new components/upgrade kit, or simply operate the supply as is. You
> should ask yourself which is more important, operating the
> transmitter/transceiver with an aging supply that can, if it fails,
> take out the final tubes plus possible damage to other
> circuits/components or not operate the AC3/AC4 supply with the
> transmitter/transceiver until the supply is upgraded? Again, it is
> your choice which route you take. I'm only providing information so
> you can make a decision regarding your AC3 or AC4 supply in hopes of
> preventing damage to your supply, transmitter, or transceiver, nothing
> more!
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, Michael Shelly <wb2kki@> wrote:
> >
> > I would watch e-bay for a month or two and take an average. You muct
> keep in mind though condition and if tested good. They will all be as
> is but maybe 7 day money back. Just got a t-4xc for about 350 and
> picked up a p/s for about 150. Both very good condition and tested
> working. Just hooked them up and as advertised.
> > Mike
> > WB2KKI
> >
> > --- On Wed, 1/14/09, d104_1 <d104_1@> wrote:
> >
> > From: d104_1 <d104_1@>
> > Subject: [DrakeRadio] Re: t4x
> > To: DrakeRadio@yahoogroups.com
> > Date: Wednesday, January 14, 2009, 5:47 PM
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> > --- In DrakeRadio@yahoogro ups.com, "kd5aq" <fbaker@> wrote:
> > >
> > > I have a R4A and would like to have a T4X with ps if I can fing one
> > > reasonable.
> > > Ron
> > >
> > What would you consider a reasonable price for a T4X with power
supply?
> >
> > You can also email me at d104_1@yahoo. com.
> >

> > Francis
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> Get 50% off Norton Security 2009 - http://www.tiscali.co.uk/security
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Get 50% off Norton Security 2009 - http://www.tiscali.co.uk/security

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1723. Re: [DrakeRadio] Re: Cleaning Chemicals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 01:32:17 UTC
From: Jim Shorney
Topic: 1718 Message: 1723

On Thu, 15 Jan 2009 16:35:44 -0000, w5rkl wrote:

>DeoXit is an excellent contact cleaner. Use only small amounts on
>switches and pots

I don't recommend DeOxit for pots. It is not a lubricant. I usually
flush the pot body with alchohol, then follow it up with a very sparing
application of a lubricated tuner cleaner to keep the wiper lubricated.

Or you can use this:

http://store.caig.com/s.nl/sc.2/category.293/.f

For switches, I use the DeOxit with the needle applicator:

http://store.caig.com/s.nl/it.A/id.1703/.f?sc=2&category=188

Spray application is not good for rotary switches and surrounding
components. This puts it exactly where I want it, and nowhere else.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1724. Re: [DrakeRadio] Re: Cleaning Chemicals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 03:17:17 UTC
From: Garey Barrell
Topic: 1718 Message: 1724

Jim -

Absolutely! I've been using this stuff since it was called CaiLube MCL. Cleans very well, and makes a pot feel like new. Also great for slide switches.

D100L with the needle for the switches.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Thu, 15 Jan 2009 16:35:44 -0000, w5rkl wrote:
>
>
>> DeoXit is an excellent contact cleaner. Use only small amounts on
>> switches and pots
>>
>
>
> I don't recommend DeOxit for pots. It is not a lubricant. I usually
> flush the pot body with alchohol, then follow it up with a very sparing
> application of a lubricated tuner cleaner to keep the wiper lubricated.
>
> Or you can use this:
>
> http://store.caig.com/s.nl/sc.2/category.293/.f
>
> For switches, I use the DeOxit with the needle applicator:
>
> http://store.caig.com/s.nl/it.A/id.1703/.f?sc=2&category=188
>
> Spray application is not good for rotary switches and surrounding
> components. This puts it exactly where I want it, and nowhere else.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain

3750, IBM PS/2 - all vintage, all the time!
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>
>

1725. Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 18:54:17 UTC
From: jch39_99
Topic: 1725 Message: 1725

Have really enjoyed my TR-7. Thinking of getting a TR4? to begin a collection. Main use would be SSB. I vaguely remember tuning up my Heathkit DX-35 a few years back (like 45yrs) had no antenna tuner back then and am sure the antennas were not resonant. Downloaded the manual. In looking at the tune up procedure, not sure where and how to include the antenna tuner on my Doublet which of course is not resonant.
Any clarification would be of great assistance. Any comments upon the various TR4 models would also be welcome.
73/Crit/K4BXN

1726. drake 2NT crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 15:50:47 UTC
From: Jay Lovelady
Topic: 1726 Message: 1726

Guys:

I am a new member of the group. I have owned a drake 2C and 2CQ for a few years and have recently purchased a 2NT. I am looking for a source for some crystals so that I can test it and determine if it needs any work to go in service with the 2C. If anyone can provide any thoughts on used (or new) crystals, I would appreciate it.

Jay - KD4BPZ

1727. RE: [DrakeRadio] drake 2NT crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 19:32:12 UTC
From: k5prt@arrl.net
Topic: 1726 Message: 1727

They are on eBay all the time. Usually in great quantities.

Pete
K5PRT

> [Original Message]
> From: Jay Lovelady <jay@...>
> To: <DrakeRadio@yahoogroups.com>
> Date: 1/16/2009 1:06:33 PM
> Subject: [DrakeRadio] drake 2NT crystals
>
> Guys:
>
> I am a new member of the group. I have owned a drake 2C and 2CQ for a few
> years and have recently purchased a 2NT. I am looking for a source for
> some crystals so that I can test it and determine if it needs any work to
> go in service with the 2C. If anyone can provide any thoughts on used (or
> new) crystals, I would appreciate it.
>
> Jay - KD4BPZ
>
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> Yahoo! Groups Links
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1728. Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 20:23:49 UTC
From: w5rkl
Topic: 1725 Message: 1728

The antenna tuner always connects between the transmitter/transceiver
and the antenna.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Have really enjoyed my TR-7. Thinking of getting a TR4? to begin a
> collection. Main use would be SSB. I vaguely remember tuning up my
> Heathkit DX-35 a few years back (like 45yrs) had no antenna tuner back
> then and am sure the antennas were not resonant. Downloaded the
> manual. In looking at the tune up procedure, not sure where and how
> to include the antenna tuner on my Doublet which of course is not
> resonant.
> Any clarification would be of great assistance. Any comments upon the
> various TR4 models would also be welcome.
> 73/Crit/K4BXN
>

1729. Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 20:42:15 UTC
From: jch39_99
Topic: 1725 Message: 1729

I understand the location of the tuner, unclear do I tune the xmtr
before tuning the ant then tune the xmtr agn then the tuner agn. Do I
use my TR-7 to tune the ant then switch to the TR4 so that it tunes
into a tuned antenna?
73/Crit/K4BXN
--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The antenna tuner always connects between the transmitter/transceiver
> and the antenna.
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@> wrote:
> >
> > Have really enjoyed my TR-7. Thinking of getting a TR4? to begin a
> > collection. Main use would be SSB. I vaguely remember tuning up my
> > Heathkit DX-35 a few years back (like 45yrs) had no antenna tuner back
> > then and am sure the antennas were not resonant. Downloaded the
> > manual. In looking at the tune up procedure, not sure where and how
> > to include the antenna tuner on my Doublet which of course is not
> > resonant.
> > Any clarification would be of great assistance. Any comments upon the
> > various TR4 models would also be welcome.
> > 73/Crit/K4BXN
> >
>

1730. Re: [DrakeRadio] Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 21:11:27 UTC
From: Garey Barrell
Topic: 1725 Message: 1730

Crit -

The answer here is that the tuner does NOT "tune" the antenna, it merely converts whatever the antenna IS to what the transmitter WANTS to see, i.e., 50 ohms with no reactive component. It doesn't do this perfectly in all cases, which is why you still see "some" SWR even after the tuner has been properly adjusted.

It's easiest to use the TR-7 to adjust the tuner, since the TR-7 will just cut back it's power output automatically while the adjustments are being made until it is seeing what it wants. Often you can then record the dial settings of the tuner for that particular frequency and next time get it "close enough" by setting the dials to those points.

Anyway, once the tuner is adjusted, you can then load the TR-4 into the tuner in the normal manner. You might then "touch up" the adjustments on the tuner for the best possible match.

Alternatively, you "could" turn up the XMTR GAIN control on the TR-4 just enough to be able to dip the PLATE control, which will give you enough output to be able to adjust the tuner for minimum SWR, then increase to full power and again "touch up" the tuner for best match.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> I understand the location of the tuner, unclear do I tune the xmtr
> before tuning the ant then tune the xmtr agn then the tuner agn. Do I
> use my TR-7 to tune the ant then switch to the TR4 so that it tunes
> into a tuned antenna?
> 73/Crit/K4BXN
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>> The antenna tuner always connects between the transmitter/transceiver
>> and the antenna.
>>
>> 73
>> Mike
>> W5RKL
>>
>> --- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@> wrote:
>>
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>>> collection. Main use would be SSB. I vaguely remember tuning up my
>>> Heathkit DX-35 a few years back (like 45yrs) had no antenna tuner back
>>> then and am sure the antennas were not resonant. Downloaded the
>>> manual. In looking at the tune up procedure, not sure where and how
>>> to include the antenna tuner on my Doublet which of course is not
>>> resonant.
>>> Any clarification would be of great assistance. Any comments upon the
>>> various TR4 models would also be welcome.
>>> 73/Crit/K4BXN
>>>

1731. Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 21:32:36 UTC
From: Tim Stotenburg
Topic: 1725 Message: 1731

I myself adjust radio and antenna tuner to max noise, switch to dummy and tune radio, switch to antenna and adjust tuner to lowest swr and touch up the radio for max output.
Hope this makes sence,
Tim

1732. Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 22:58:59 UTC
From: jch39_99
Topic: 1725 Message: 1732

Tnx Garey.
The tuner is actually an autotuner so cannot tune for max noise 1st.
What you said makes great sense ... Either low power from TR-7 to
trigger the autotuner and then tune the TR4 or "could" turn up the
XMTR GAIN control on the TR-4 just enough to be able to be able to dip the PLATE
control, which will give me enough output to be able to adjust the
tuner for minimum SWR, then increase to full power and again "touch
up" the tuner. Your emphasis on "could" leads me to think you believe
the first method is safer.

Tnx/73
Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> The answer here is that the tuner does NOT "tune" the antenna, it
merely
> converts whatever the antenna IS to what the transmitter WANTS to see,
> i.e., 50 ohms with no reactive component. It doesn't do this perfectly
> in all cases, which is why you still see "some" SWR even after the
tuner
> has been properly adjusted.
>
> It's easiest to use the TR-7 to adjust the tuner, since the TR-7 will
> just cut back it's power output automatically while the adjustments are
> being made until it is seeing what it wants. Often you can then record
> the dial settings of the tuner for that particular frequency and next
> time get it "close enough" by setting the dials to those points.
>
> Anyway, once the tuner is adjusted, you can then load the TR-4 into the
> tuner in the normal manner. You might then "touch up" the adjustments
> on the tuner for the best possible match.
>
> Alternatively, you "could" turn up the XMTR GAIN control on the TR-4
> just enough to be able to dip the PLATE control, which will give you
> enough output to be able to adjust the tuner for minimum SWR, then
> increase to full power and again "touch up" the tuner for best match.
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
>
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> jch39_99 wrote:
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> > use my TR-7 to tune the ant then switch to the TR4 so that it tunes
> > into a tuned antenna?
> > 73/Crit/K4BXN

1733. Re: [DrakeRadio] Re: Question of newbie

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-16 23:20:53 UTC
From: Garey Barrell
Topic: 1725 Message: 1733

Crit -

You got the general idea!

I use an LDG AT-200 Pro auto tuner. It has 16000 memory "locations", so I just went through with my TR-7 to all the frequencies I use, and let it set up the tuner. It only takes a second or two for the vast majority of sets, so just turn the dial, key the TR-7, clickity-click and it's done. Then when I connect the TR-4C, the first little bit of RF makes the fractional click it takes once a frequency range is set, and I can tune the TR-4C to full power. If I happen to go someplace I haven't been before, I just get a few clicks and it's done.

ANY tube amplifier is unhappy if it's not "dipped" to resonance. Sweep tubes are particularly susceptible to off-resonance operation because of their very high perveance (very high plate current at relatively low plate voltages) which is what made them so popular! As long as they are dipped, the few seconds it takes for an autotuner is not going to hurt anything. If it's a manual tuner, and you have to twiddle three dials for five minutes to get it set, THEN I'd be concerned.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> Tnx Garey.
> The tuner is actually an autotuner so cannot tune for max noise 1st.
> What you said makes great sense ... Either low power from TR-7 to
> trigger the autotuner and then tune the TR4 or "could" turn up the
> XMTR GAIN control on the TR-4 just enough to be able to dip the PLATE
> control, which will give me enough output to be able to adjust the
> tuner for minimum SWR, then increase to full power and again "touch
> up" the tuner. Your emphasis on "could" leads me to think you believe
> the first method is safer.
>
> Tnx/73
> Crit/K4BXN
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Crit -
>>
>> The answer here is that the tuner does NOT "tune" the antenna, it

>>
> merely
>
>> converts whatever the antenna IS to what the transmitter WANTS to see,
>> i.e., 50 ohms with no reactive component. It doesn't do this perfectly
>> in all cases, which is why you still see "some" SWR even after the
>>
> tuner
>
>> has been properly adjusted.
>>
>> It's easiest to use the TR-7 to adjust the tuner, since the TR-7 will
>> just cut back it's power output automatically while the adjustments are
>> being made until it is seeing what it wants. Often you can then record
>> the dial settings of the tuner for that particular frequency and next
>> time get it "close enough" by setting the dials to those points.
>>
>> Anyway, once the tuner is adjusted, you can then load the TR-4 into the
>> tuner in the normal manner. You might then "touch up" the adjustments
>> on the tuner for the best possible match.
>>
>> Alternatively, you "could" turn up the XMTR GAIN control on the TR-4
>> just enough to be able to dip the PLATE control, which will give you
>> enough output to be able to adjust the tuner for minimum SWR, then
>> increase to full power and again "touch up" the tuner for best match.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> jch39_99 wrote:
>>
>>> I understand the location of the tuner, unclear do I tune the xmtr
>>> before tuning the ant then tune the xmtr agn then the tuner agn. Do I
>>> use my TR-7 to tune the ant then switch to the TR4 so that it tunes
>>> into a tuned antenna?
>>> 73/Crit/K4BXN
>>>

1734. Triple Play / LoTW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-22 00:55:02 UTC
From: Don
Topic: 1734 Message: 1734

Anyone here that is pursuing the Triple Play Award or uses ARRL's Logbook of the World (LoTW)
may find this link useful. realtime spotting/ sked for LoTW.

http://www.obriensweb.com/sked/

Don
AD7LL
http://www.srcisra.org/

[Non-text portions of this message have been removed]

1735. Confusion ... not new for me.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-22 01:39:54 UTC
From: jch39_99
Topic: 1735 Message: 1735

Good evening folks. Bare with me.
In anticipation of getting a TR4, I am reviewing the "Tune-up" procedures in the manual. Been awhile since I had a tube rig. Think I follow that okay. At the end says the plate current should end up between 0.380 and 0.500 amps.

However, I found a webpage stating that in order to be in compliance with Section 97.73 of FCC regs the plate current should not exceed 0.350 amps. when tuning the TR3/4 especially for 80,40 and 15 mtrs. Which is correct?

Additionally, there is mention of adjusting the bias on AC-4. I am assuming this is done initially and then left alone.

Tnx/73
Crit/K4BXN

1736. Re: [DrakeRadio] Confusion ... not new for me.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-22 04:45:12 UTC
From: Garey Barrell
Topic: 1735 Message: 1736

Crit -

Yeah, the reduced plate current was specified when the FCC came out with their new "Purity of Emissions" specifications. The TR-4(any) transmitters will exceed the 3rd order distortion specification if loaded much above 0.350A on those three bands. Generally not a significant problem, assuming you're not driving a linear amp, which further exacerbates the problem. Of no concern for CW operation. On the positive side, the lower plate current won't make a discernable difference at the other end, and your Final tubes will last longer!

The Bias adjustment is done once at installation, and should not require adjustment again until the Final tubes are replaced.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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jch39_99 wrote:
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> with Section 97.73 of FCC regs the plate current should not exceed
> 0.350 amps. when tuning the TR3/4 especially for 80,40 and 15 mtrs.
> Which is correct?
>
> Additionally, there is mention of adjusting the bias on AC-4. I am
> assuming this is done initially and then left alone.
>
> Tnx/73
> Crit/K4BXN
>
>
>

1737. Re: Confusion ... not new for me.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-22 12:58:36 UTC
From: jch39_99
Topic: 1735 Message: 1737

Once again Garey you have come thru with great info.
Tnx/73
Crit/K4BXN
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> Yeah, the reduced plate current was specified when the FCC came out
with
> their new "Purity of Emissions" specifications. The TR-4(any)
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> difference at the other end, and your Final tubes will last longer!
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> The Bias adjustment is done once at installation, and should not
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> adjustment again until the Final tubes are replaced.
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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> jch39_99 wrote:
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> > Which is correct?
> >
> > Additionally, there is mention of adjusting the bias on AC-4. I am
> > assuming this is done initially and then left alone.
> >
> > Tnx/73

> > Crit/K4BXN
> >
> >
> >
>

1738. Orlando Hamcation, February 12, 13, 14, 15

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 13:06:42 UTC
From: Ken Simpson, W8EK
Topic: 1738 Message: 1738

Information about the Orlando Hamcation, February 12, 13, 14, 15:

If you have never been to the Orlando Hamcation, you need to think about attending. It is now the second largest hamfest in the country, fast approaching the size of Dayton. While Hamcation is technically Friday, Saturday, and Sunday, the fun really gets started with most tailgaters moving in on Thursday. It seems you can find most anything you would want with 100's of vendors -- maybe even approaching 1000. Everything from the most ancient boatanchor to the most modern rig will be there.

In addition, Florida is the place to be in February, as opposed to the "Cold North". There are plenty of activities for the family as well, in the central Florida area.

Swap tables at the Orlando Hamcation are still available at the present time.

If you would like a table in the swap building, you can contact Mort, WA2ARS, or Roberta at hamcation@..., and make your reservation. Remember if it is cold or rainy outside in the tailgate section, it will be warm and dry inside the swap building.

More information is available at
http://www.hamcation.com/

See you there.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

1739. R4B vs R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 15:22:27 UTC
From: jch39_99
Topic: 1739 Message: 1739

It seems that most sources talk about the R4B being a better "deal" than the R4C because it comes complete. The basic R4C does not fair well in the Sherwood Tests. However, a moded out R4C has incredible numbers. I may have missed it, but where would the R4B stand in the Sherwood table? Just curious.
73/Crit/K4BXN

1740. Re: [DrakeRadio] R4B vs R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 16:09:45 UTC
From: Garey Barrell
Topic: 1739 Message: 1740

Crit -

My opinion, for what it's worth ... Do you want a receiver to use for day-to-day hamming, or do you want to "compare numbers"?

The Sherwood numbers are almost entirely based on the ability to reject a strong unwanted signal that is very close to a weak wanted signal. They give no consideration to the "sound" of the signals you hear in the speaker, the ergonomics of the panel, or anything else. Granted this is extremely important for contesting, especially on the low bands where wall-to-wall 50 over 9 signals are prevalent. This capability can also be of help in picking out a weak DX signal buried in the "DX Cops" screaming "Up Up Up Lid" etc. But for just getting on the air and talking to a friend or meeting someone new, it just isn't all that important, especially in today's uncrowded bands.

I suspect the R-4B would fall somewhere around the stock R-4C, perhaps a little lower. The "big deal" for Sherwood is the ability to reject a signal that is two kHz away, and the "roofing filter" in the R-4B is eight kHz wide, so right away we're in trouble according to Sherwood! Keep in mind that the "standard" test when the B was designed was 20 kHz, NOT 2 kHz. The B has a little more selectivity from the PRESELECTOR control, but it's also broad by Sherwood standards. Then you get into the IF, where the Passband Tuner has a shape factor (width of the filter at the "top" vs width 60 dB down) of about 4 - 5 and an "ultimate" band stop of about 70 dB, compared to the shape factor of a crystal filter of a little less than 2 and ultimate of about 100 dB. So yeah, you're gonna hear a LOT more "stuff" around your desired station with the "B" than you will with a K3! There are going to be more times that your "desired" signal is obliterated by some clown 5 kHz away running 5 kW to a six element beam. There will be many more times that you'll "hear" the other guy, but he'll be knocked down enough that you can still COMMUNICATE with your guy.

So..... I started out with a receiver that covered the entire Novice band of 50 kHz in approximately 1/8" of dial, and about a half turn of the knob, with a bandwidth of about 30 kHz. This was at the peak of the best sunspot peak ever, and the band was literally wall-to-wall with signals, all at about the same level. I developed a pretty good ability to pick out a particular signal with the filter between my ears, along with a "safe-cracker's" touch on the tuning knob, so forgive me if I am a little less impressed with the importance of the Sherwood numbers!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
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> well in the Sherwood Tests. However, a moded out R4C has incredible
> numbers. I may have missed it, but where would the R4B stand in the
> Sherwood table? Just curious.
> 73/Crit/K4BXN
>
>
>

1741. Re: R4B vs R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 17:43:58 UTC
From: toptyp19
Topic: 1739 Message: 1741

Right on, Garey!
The best numbers in the world don't
always produce the best results.

Joe.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Crit -
>
> My opinion, for what it's worth ... Do you want a receiver to use for
> day-to-day hamming, or do you want to "compare numbers"?
>
> The Sherwood numbers are almost entirely based on the ability to reject
> a strong unwanted signal that is very close to a weak wanted signal.
> They give no consideration to the "sound" of the signals you hear in the
> speaker, the ergonomics of the panel, or anything else. Granted this is
> extremely important for contesting, especially on the low bands where
> wall-to-wall 50 over 9 signals are prevalent. This capability can also
> be of help in picking out a weak DX signal buried in the "DX Cops"
> screaming "Up Up Up Lid" etc. But for just getting on the air and
> talking to a friend or meeting someone new, it just isn't all that
> important, especially in today's uncrowded bands.
>
> I suspect the R-4B would fall somewhere around the stock R-4C, perhaps a
> little lower. The "big deal" for Sherwood is the ability to reject a
> signal that is two kHz away, and the "roofing filter" in the R-4B is
> eight kHz wide, so right away we're in trouble according to Sherwood!
> Keep in mind that the "standard" test when the B was designed was 20
> kHz, NOT 2 kHz. The B has a little more selectivity from the
> PRESELECTOR control, but it's also broad by Sherwood standards. Then
> you get into the IF, where the Passband Tuner has a shape factor (width
> of the filter at the "top" vs width 60 dB down) of about 4 - 5 and an
> "ultimate" band stop of about 70 dB, compared to the shape factor of a
> crystal filter of a little less than 2 and ultimate of about 100 dB. So
> yeah, you're gonna hear a LOT more "stuff" around your desired station
> with the "B" than you will with a K3! There are going to be more times
> that your "desired" signal is obliterated by some clown 5 kHz away
> running 5 kW to a six element beam. There will be many more times that
> you'll "hear" the other guy, but he'll be knocked down enough that you
> can still COMMUNICATE with your guy.
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> So..... I started out with a receiver that covered the entire Novice
> band of 50 kHz in approximately 1/8" of dial, and about a half turn of
> the knob, with a bandwidth of about 30 kHz. This was at the peak of the

> best sunspot peak ever, and the band was literally wall-to-wall with
> signals, all at about the same level. I developed a pretty good ability
> to pick out a particular signal with the filter between my ears, along
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
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> jch39_99 wrote:
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> > than the R4C because it comes complete. The basic R4C does not fair
> > well in the Sherwood Tests. However, a moded out R4C has incredible
> > numbers. I may have missed it, but where would the R4B stand in the
> > Sherwood table? Just curious.
> > 73/Crit/K4BXN
> > >
> > >
> > >
>

1742. Re: R4B vs R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 18:44:12 UTC
From: jch39_99
Topic: 1739 Message: 1742

Tnx Garey for another well thought out posting (worth alot).
I have a FT897 and w/ its bolt on ant tuner and built in batteries it
is a great threw it in the case take anywhere DC to daylight rig, but
sure isn't a contest radio. Each radio has its niche.
I was just wondering if RL Drake when it switched from "included in
standard radio" to many options available, did they also change their
how the radio works in the real world philosophy as well.
And apparently they did not. Thanks.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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> Crit -
>
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> be of help in picking out a weak DX signal buried in the "DX Cops"
> screaming "Up Up Up Lid" etc. But for just getting on the air and
> talking to a friend or meeting someone new, it just isn't all that
> important, especially in today's uncrowded bands.
>
> I suspect the R-4B would fall somewhere around the stock R-4C,
perhaps a
> little lower. The "big deal" for Sherwood is the ability to reject a
> signal that is two kHz away, and the "roofing filter" in the R-4B is
> eight kHz wide, so right away we're in trouble according to Sherwood!
> Keep in mind that the "standard" test when the B was designed was 20
> kHz, NOT 2 kHz. The B has a little more selectivity from the
> PRESELECTOR control, but it's also broad by Sherwood standards. Then
> you get into the IF, where the Passband Tuner has a shape factor (width
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> > 73/Crit/K4BXN
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>

1743. Re: [DrakeRadio] Re: R4B vs R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 19:33:08 UTC
From: Garey Barrell
Topic: 1739 Message: 1743

Crit -

I think the change was the result of operators who learned their CW on code oscillators rather than listening on the air! Many could copy code pretty well, as long as there was ONE signal in the phones. They were not nearly as tolerant of ANY other sound, especially a different cw signal... :-)

Of course the fact that crystal filters in the 3 - 9 MHz range were dropping in price didn't hurt.

By the way, phase shifts along the steep slope of crystal filters results in some undesirable distortion artifacts in the AVC system.

73, Garey - K4OAH
Glen Allen, VA

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jch39_99 wrote:
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>>> 73/Crit/K4BXN
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>>>

1744. R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 21:01:09 UTC
From: tnham63
Topic: 1744 Message: 1744

I have been trying to aquire a spare 12BZ6 for my R-4 and
here is what I have found.
I have tried 4 NOS tubes from 2 different suppliers and all do
not work. They produce a S 6 on the S meter and almost no
signals. Even the Xtal Calibrator barely moves the S meter
from is S 6 perch.. I have a 12BZ6 in the R-4 that works fine
and I am trying to figure out what the trouble might be?
One supplier (who has sold me tubes in the past that work fine)
claims he has sold these to other Drake users with no problem and
that they check great in his tube checkers and I have no reason
not to believe him. He has just sent me two
more replacements and they do the same thing.
I can't believe these are all bad tubes, but I don't know what
to check next or why this would be happening......
Any ideas ????
Thanks.
WINK
WA8KOQ

1745. Re: [DrakeRadio] R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-23 21:22:44 UTC
From: Garey Barrell
Topic: 1744 Message: 1745

Wink -

Strange indeed..... What brand(s) are the new tubes? You sure your R-4 doesn't have a 6BZ6 in it and been rewired for such?? I know of at least two R-4s out "in the wild" that "I" modified for a 6BZ6 due to the cost differential of the 12BZ6 even back in the 60's....

Only other thing that comes to mind is have you tried peaking the alignment trimmer with the new tube in place? Would not think there would be that much capacity variation among "known" brands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> I have been trying to aquire a spare 12BZ6 for my R-4 and
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> to check next or why this would be happening......
> Any ideas ????
> Thanks.
> WINK
> WA8KOQ
>
>

1746. Re: [DrakeRadio] R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 09:22:26 UTC
From: g4jss@tiscali.co.uk
Topic: 1744 Message: 1746

Don't know if it's worth anything but I had a problem with a tube which replacements didn't fix. Turned out to be a duff tube socket. Fixed that and they all worked.

Vic

----Original Message----
From: k4oah@...
Date: 23/01/2009 21:22
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] R-4 - 12BZ6 PROBLEM

Wink -

Strange indeed..... What brand(s) are the new tubes? You sure your
R-4 doesn't have a 6BZ6 in it and been rewired for such?? I know of at
least two R-4s out "in the wild" that "I" modified for a 6BZ6 due to the
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> to check next or why this would be happening......
> Any ideas ????
> Thanks.
> WINK
> WA8KOQ

>
>

50% off Norton Security 2009 - http://www.tiscali.co.uk/security

---

[Non-text portions of this message have been removed]

1747. Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 14:28:28 UTC
From: tnham63
Topic: 1744 Message: 1747

Gary
The new tubes were RCA and Sylvania. Yes, the tube in it now
is a 12BZ6 for sure, but I don't know the manufacturer
as it is rubbed off, but it works.
I'm stumped as to what to do if this tube fails...

73
WINK
> Wink -
>
> Strange indeed..... What brand(s) are the new tubes? You sure
your
> R-4 doesn't have a 6BZ6 in it and been rewired for such?? I know
of at
> least two R-4s out "in the wild" that "I" modified for a 6BZ6 due
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> > Thanks.
> > WINK
> > WA8KOQ
> >
> >
>

1748. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 15:25:58 UTC
From: Garey Barrell
Topic: 1744 Message: 1748

Wink -

Well it doesn't sound like anything "logical". :-) It's certainly not reasonable to think that FOUR NOS tubes of reliable brands are all bad.

Vic suggested a bad socket. Are the pins on the "old" tube straight? Perhaps one pin is slanted enough to mate with a sprung socket that a new straight pin misses?

Since we don't know the brand of the old tube, perhaps IT is the weird one with a bent element inside or some other anomaly that has changed the capacitance and therefore the alignment adjustment is "off" to compensate for a "bad" tube.

I'd say put in one of the new tubes, and touch up the input and output trimmers on one band to see if it's an alignment thing. Then check the element voltages with the old and then a new tube in place. IF not, then time for bright lights and insulated sticks to poke around and find what's changing. My guess would be a bad solder joint or cracked AVC resistor on the Grid circuit.

Let us know!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
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> 73
> WINK
>
>> Wink -
>>
>> Strange indeed..... What brand(s) are the new tubes? You sure
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> your
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>> R-4 doesn't have a 6BZ6 in it and been rewired for such?? I know
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>> least two R-4s out "in the wild" that "I" modified for a 6BZ6 due
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>>> to check next or why this would be happening......
>>> Any ideas ????
>>> Thanks.
>>> WINK
>>> WA8KOQ
>>>

1749. MN 2000 Tuner Knobs Loose, Knobs Tight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 19:03:44 UTC
From: Les WB6ORZ
Topic: 1749 Message: 1749

Say, I'd appreciate the collective wisdom: The band switch knob on my MN 2000 gets loose on it's shaft every few months are so, and this requires re-tightening the slotted set screw which retains the knob. Of course, not too difficult, but a hassle, and I'd like to know a way to prevent it, if possible.
Seems like there's an awful lot of torque on that knob. Would opening up the case and lubing and/or adjusting the bandswitch help, and if so at what points? In another approach, where a set screw loosened in it's own knob, a friend has had good results using Teflon plumbers tape wrapped around the set screw, which seems to keep the set screw tight. I'm not sure my knob is the problem, although maybe it is and also maybe the control is just too hard to turn. Maybe both at this point?
One more : while the 2 other knobs (Reactive and Resistive) stay tight, using them is tricky, as there is not that much vernier, so the slightest turn of the wrist throws the SWR a bit too much this way or that, and it's kind of tricky to get just right. I saw one other approach to this in a mod which a guy used...he installed vernier controls, but I'd like to stay stock. Can these controls be cleaned, lubed, and/or adjusted inside to loosen up their travel?
Thanks in advance!
(((((73)))))
Les
---===WB6ORZ===---

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 24, 2009 7:25 AM
Subject: Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM

Wink -

Well it doesn't sound like anything "logical". :-) It's certainly not reasonable to think that FOUR NOS tubes of reliable brands are all bad.

Vic suggested a bad socket. Are the pins on the "old" tube straight? Perhaps one pin is slanted enough to mate with a sprung socket that a new straight pin misses?

Since we don't know the brand of the old tube, perhaps IT is the weird one with a bent element inside or some other anomaly that has changed the capacitance and therefore the alignment adjustment is "off" to compensate for a "bad" tube.

I'd say put in one of the new tubes, and touch up the input and output trimmers on one band to see if it's an alignment thing. Then check the element voltages with the old and then a new tube in place. IF not, then time for bright lights and insulated sticks to poke around and find what's changing. My guess would be a bad solder joint or cracked AVC

resistor on the Grid circuit.

Let us know!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
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> 73
> WINK
>
>> Wink -
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>> Strange indeed..... What brand(s) are the new tubes? You sure
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>> R-4 doesn't have a 6BZ6 in it and been rewired for such?? I know
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>> Only other thing that comes to mind is have you tried peaking the
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>>> to check next or why this would be happening......
>>> Any ideas ????
>>> Thanks.
>>> WINK
>>> WA8KOQ
>>>

[Non-text portions of this message have been removed]

1750. Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 20:25:15 UTC
From: tnham63
Topic: 1744 Message: 1750

Garey -

I did some resistance measurements off the 12BZ6 and here is what I found.

R1 3.3k measures 3.7k
R2 22k measures 8.3k
R4 2.2m measures 1.36m
R3 150 measures 180
Gosh it looks like you have to just about remove the bandswitch to get to these, Ive never done that before, Don't know if I can pull it off or not unless there is an easy way to do it.
Any tips?? I guess I better start with replacing these if I can would you agree?

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WINK

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> reasonable to think that FOUR NOS tubes of reliable brands are all bad.
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> resistor on the Grid circuit.
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> >>> WA8KOQ
> >>>
>

1751. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 20:52:25 UTC
From: Michael Shelly
Topic: 1744 Message: 1751

The manual should have a voltage & resistance chart you get right off the tube socket and referenced to ground. So should be easy to get to. Make sure you follow the notes of where the switches are and if power is on or off. And CAUTION HIGH VOLTAGE!!!!!!!!!!

The problem can also be in the preceding or following stages so I would measure them as well. I have heard that some tubes when replaced the radio may need to be re tuned. So again if you don't have a manual get one. If all that checks good you may want to consider looking at the caps in that circuit. They as you know are much harder to trouble shoot but can cause real problems.

Good luck I feel your pain!!!!
Mike
WB2KKI

--- On Sat, 1/24/09, tnham63 <WA8KOQ@MSN.COM> wrote:

From: tnham63 <WA8KOQ@...>
Subject: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 24, 2009, 3:25 PM

Garey -

I did some resistance measurements off the 12BZ6 and here is what I
found.

R1 3.3k measures 3.7k
R2 22k measures 8.3k
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R3 150 measures 180
Gosh it looks like you have to just about remove the bandswitch
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WINK

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> > 73
> > WINK
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> >> Wink -
> >>
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> >>> WINK
> >>> WA8KOQ
> >>>
>

[Non-text portions of this message have been removed]

1752. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 22:24:16 UTC
From: Garey Barrell
Topic: 1744 Message: 1752

Wink -

OK. You're seeing parallel paths. Do you have a manual??????

Try measuring from each pin to ground as ...

1 - 4.4M
2 - 150

5 - 8.5k
6 - 2.6k

Also reverse your ohmmeter leads on each reading as well, to see if
there is any difference.

See what you get here before replacing. Those ARE hard to get to.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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tnham63 wrote:
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>>>>
> due
>
>>>>
>>>>
>>> to the
>>>
>>>

>>>> cost differential of the 12BZ6 even back in the 60's....
>>>>
>>>> Only other thing that comes to mind is have you tried peaking
>>>>
> the
>
>>>> alignment trimmer with the new tube in place? Would not think
>>>>
>>>>
>>> there
>>>
>>>
>>>> would be that much capacity variation among "known" brands.
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>>
>>>> tnham63 wrote:
>>>>
>>>>
>>>>> I have been trying to aquire a spare 12BZ6 for my R-4 and
>>>>> here is what I have found.
>>>>> I have tried 4 NOS tubes from 2 different suppliers and all do
>>>>> not work. They produce a S 6 on the S meter and almost no
>>>>> signals. Even the Xtal Calibrator barely moves the S meter
>>>>> from is S 6 perch.. I have a 12BZ6 in the R-4 that works fine
>>>>> and I am trying to figure out what the trouble might be?
>>>>> One supplier (who has sold me tubes in the past that work
>>>>>
> fine)
>
>>>>> claims he has sold these to other Drake users with no problem
>>>>>
> and
>
>>>>> that they check great in his tube checkers and I have no
>>>>>
> reason
>
>>>>> not to believe him. He has just sent me two
>>>>> more replacements and they do the same thing.
>>>>> I can't believe these are all bad tubes, but I don't know what
>>>>> to check next or why this would be happening......
>>>>> Any ideas ????
>>>>> Thanks.

>>>>> WINK
>>>>> WA8KOQ
>>>>>
>

1753. Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-24 22:47:53 UTC
From: WB7TXG
Topic: 1744 Message: 1753

And if you have a few extra $ to spend I'd highly recommend the CD service manual that Garey has put together! It will make life much easier trying to find component location, etc..

--- In DrakeRadio@yahoogroups.com, Michael Shelly <wb2kki@...> wrote:
>
> The manual should have a voltage & resistance chart you get right off the tube socket and referenced to ground. So should be easy to get to. Make sure you follow the notes of where the switches are and if power is on or off. And CAUTION HIGH VOLTAGE!!!!!!!!!!
>
> The problem can also be in the preceding or following stages so I would measure them as well. I have heard that some tubes when replaced the radio may need to be re tuned. So again if you don't have a manual get one. If all that checks good you may want to consider looking at the caps in that circuit. They as you know are much harder to trouble shoot but can cause real problems.
>
> Good luck I feel your pain!!!!
> Mike
> WB2KKI
>
> --- On Sat, 1/24/09, tnham63 <WA8KOQ@...> wrote:
>
> From: tnham63 <WA8KOQ@...>
> Subject: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM
> To: DrakeRadio@yahoogroups.com
> Date: Saturday, January 24, 2009, 3:25 PM
>
>
>
>
>
>
>
> Garey -
>
> I did some resistance measurements off the 12BZ6 and here is what I
> found.
>
> R1 3.3k measures 3.7k
> R2 22k measures 8.3k
> R4 2.2m measures 1.36m
> R3 150 measures 180
> Gosh it looks like you have to just about remove the bandswitch
> to get to these, Ive never done that before, Don't know if I can

> pull it off or not unless there is an easy way to do it.
> Any tips?? I guess I better start with replacing these if I can
> would you agree?
>
> 73
> WINK
>
> > Wink -
> >
> > Well it doesn't sound like anything "logical". :-) It's
> certainly not
> > reasonable to think that FOUR NOS tubes of reliable brands are
all
> bad.
> >
> > Vic suggested a bad socket. Are the pins on the "old" tube
> straight?
> > Perhaps one pin is slanted enough to mate with a sprung socket
> that a
> > new straight pin misses?
> >
> > Since we don't know the brand of the old tube, perhaps IT is the
> weird
> > one with a bent element inside or some other anomaly that has
> changed
> > the capacitance and therefore the alignment adjustment is "off"
to
> > compensate for a "bad" tube.
> >
> > I'd say put in one of the new tubes, and touch up the input and
> output
> > trimmers on one band to see if it's an alignment thing. Then
> check the
> > element voltages with the old and then a new tube in place. IF
> not,
> > then time for bright lights and insulated sticks to poke around
> and find
> > what's changing. My guess would be a bad solder joint or cracked
> AVC
> > resistor on the Grid circuit.
> >
> > Let us know!!
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >

> >
> > tnham63 wrote:
> > > Gary
> > > The new tubes were RCA and Sylvania. Yes, the tube in it now
> > > is a 12BZ6 for sure, but I don't know the manufacturer
> > > as it is rubbed off, but it works.
> > > I'm stumped as to what to do if this tube fails...
> > >
> > > 73
> > > WINK
> > >
> > >> Wink -
> > >>
> > >> Strange indeed..... What brand(s) are the new tubes? You
> sure
> > >>
> > > your
> > >
> > >> R-4 doesn't have a 6BZ6 in it and been rewired for such?? I
> know
> > >>
> > > of at
> > >
> > >> least two R-4s out "in the wild" that "I" modified for a 6BZ6
> due
> > >>
> > > to the
> > >
> > >> cost differential of the 12BZ6 even back in the 60's....
> > >>
> > >> Only other thing that comes to mind is have you tried peaking
> the
> > >> alignment trimmer with the new tube in place? Would not think
> > >>
> > > there
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> > >> would be that much capacity variation among "known" brands.
> > >>
> > >> 73, Garey - K4OAH
> > >> Glen Allen, VA
> > >>
> > >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > >> <www.k4oah.com>
> > >>
> > >>
> > >>
> > >> tnham63 wrote:
> > >>
> > >>> I have been trying to aquire a spare 12BZ6 for my R-4 and
> > >>> here is what I have found.

> > >>> I have tried 4 NOS tubes from 2 different suppliers and all
do
> > >>> not work. They produce a S 6 on the S meter and almost no
> > >>> signals. Even the Xtal Calibrator barely moves the S meter
> > >>> from is S 6 perch.. I have a 12BZ6 in the R-4 that works fine
> > >>> and I am trying to figure out what the trouble might be?
> > >>> One supplier (who has sold me tubes in the past that work
> fine)
> > >>> claims he has sold these to other Drake users with no problem
> and
> > >>> that they check great in his tube checkers and I have no
> reason
> > >>> not to believe him. He has just sent me two
> > >>> more replacements and they do the same thing.
> > >>> I can't believe these are all bad tubes, but I don't know what
> > >>> to check next or why this would be happening... ...
> > >>> Any ideas ????
> > >>> Thanks.
> > >>> WINK
> > >>> WA8KOQ
> > >>>
> >
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>
>
> [Non-text portions of this message have been removed]
>

1754. Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-25 19:13:02 UTC
From: tnham63
Topic: 1744 Message: 1754

Garey -

Ok Here is what I got each pin to ground

1- 1.1m reverse 1.1m
2- 166 reverse 166

5- 7.2k reverse 8.6k
6- 8.3k reverse 8.3k

I have a manual copy.
What do you think now?
WINK
WA8KOQ

> Wink -
>
> OK. You're seeing parallel paths. Do you have a manual??????
>
> Try measuring from each pin to ground as ...
>
> 1 - 4.4M
> 2 - 150
>
> 5 - 8.5k
> 6 - 2.6k
>
> Also reverse your ohmmeter leads on each reading as well, to see if
> there is any difference.
>
> See what you get here before replacing. Those ARE hard to get to.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
>
>
> tnham63 wrote:
> > Garey -
> >
> > I did some resistance measurements off the 12BZ6 and here is what
I
> > found.

> >
> > R1 3.3k measures 3.7k
> > R2 22k measures 8.3k
> > R4 2.2m measures 1.36m
> > R3 150 measures 180
> > Gosh it looks like you have to just about remove the bandswitch
> > to get to these, Ive never done that before, Don't know if I can
> > pull it off or not unless there is an easy way to do it.
> > Any tips?? I guess I better start with replacing these if I can
> > would you agree?
> >
> > 73
> > WINK
> >
> >
> >> Wink -
> >>
> >> Well it doesn't sound like anything "logical". :-) It's
> >>
> > certainly not
> >
> >> reasonable to think that FOUR NOS tubes of reliable brands are
all
> >>
> > bad.
> >
> >> Vic suggested a bad socket. Are the pins on the "old" tube
> >>
> > straight?
> >
> >> Perhaps one pin is slanted enough to mate with a sprung socket
> >>
> > that a
> >
> >> new straight pin misses?
> >>
> >> Since we don't know the brand of the old tube, perhaps IT is the
> >>
> > weird
> >
> >> one with a bent element inside or some other anomaly that has
> >>
> > changed
> >
> >> the capacitance and therefore the alignment adjustment is "off"
to
> >> compensate for a "bad" tube.
> >>
> >> I'd say put in one of the new tubes, and touch up the input and
> >>

> > output
> >
> >> trimmers on one band to see if it's an alignment thing. Then
> >>
> > check the
> >
> >> element voltages with the old and then a new tube in place. IF
> >>
> > not,
> >
> >> then time for bright lights and insulated sticks to poke around
> >>
> > and find
> >
> >> what's changing. My guess would be a bad solder joint or
cracked
> >>
> > AVC
> >
> >> resistor on the Grid circuit.
> >>
> >> Let us know!!
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> Gary
> >>> The new tubes were RCA and Sylvania. Yes, the tube in it now
> >>> is a 12BZ6 for sure, but I don't know the manufacturer
> >>> as it is rubbed off, but it works.
> >>> I'm stumped as to what to do if this tube fails...
> >>>
> >>> 73
> >>> WINK
> >>>
> >>>
> >>>> Wink -
> >>>>
> >>>> Strange indeed..... What brand(s) are the new tubes? You
> >>>>
> > sure
> >
> >>>>

> >>>>
> >>> your
> >>>
> >>>
> >>>> R-4 doesn't have a 6BZ6 in it and been rewired for such?? I
> >>>>
> > know
> >
> >>>>
> >>>>
> >>> of at
> >>>
> >>>
> >>>> least two R-4s out "in the wild" that "I" modified for a 6BZ6
> >>>>
> > due
> >
> >>>>
> >>>>
> >>> to the
> >>>
> >>>
> >>>> cost differential of the 12BZ6 even back in the 60's....
> >>>>
> >>>> Only other thing that comes to mind is have you tried peaking
> >>>>
> > the
> >
> >>>> alignment trimmer with the new tube in place? Would not
think
> >>>>
> >>>>
> >>> there
> >>>
> >>>
> >>>> would be that much capacity variation among "known" brands.
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
> >>>>
> >>>>
> >>>>
> >>>> tnham63 wrote:
> >>>>
> >>>>
> >>>>> I have been trying to aquire a spare 12BZ6 for my R-4 and
> >>>>> here is what I have found.

> >>>>> I have tried 4 NOS tubes from 2 different suppliers and all
do
> >>>>> not work. They produce a S 6 on the S meter and almost no
> >>>>> signals. Even the Xtal Calibrator barely moves the S meter
> >>>>> from is S 6 perch.. I have a 12BZ6 in the R-4 that works fine
> >>>>> and I am trying to figure out what the trouble might be?
> >>>>> One supplier (who has sold me tubes in the past that work
> >>>>>
> > fine)
> >
> >>>>> claims he has sold these to other Drake users with no problem
> >>>>>
> > and
> >
> >>>>> that they check great in his tube checkers and I have no
> >>>>>
> > reason
> >
> >>>>> not to believe him. He has just sent me two
> >>>>> more replacements and they do the same thing.
> >>>>> I can't believe these are all bad tubes, but I don't know what
> >>>>> to check next or why this would be happening......
> >>>>> Any ideas ????
> >>>>> Thanks.
> >>>>> WINK
> >>>>> WA8KOQ
> >>>>>
> >
>

1755. Drake Net on 40 meters?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-25 23:24:23 UTC
From: Dan Galligan
Topic: 1755 Message: 1755

Can someone please give me the info on the Drake net, held on 40
Meters? I know about the Tuesday night 75 meter net, and I had once
written down the info on the Sunday 40 meter net, but cannot locate
the information.
Thanks
Dan Galligan
W3RXO
w3rxo@...

The price of freedom is eternal vigilance.
Thomas Jefferson

[Non-text portions of this message have been removed]

1756. RE: [DrakeRadio] Drake Net on 40 meters?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-25 23:30:10 UTC
From: Jim Chaggaris
Topic: 1755 Message: 1756

Dan,

It's every Sunday afternoon at 20:00 UTC on 7.238

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Dan Galligan
Sent: Sunday, January 25, 2009 5:24 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake Net on 40 meters?

Can someone please give me the info on the Drake net, held on 40 Meters? I know about the Tuesday night 75 meter net, and I had once written down the info on the Sunday 40 meter net, but cannot locate the information.
Thanks
Dan Galligan
W3RXO
w3rxo@... <mailto:w3rxo%40mac.com>

The price of freedom is eternal vigilance.
Thomas Jefferson

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1757. Re: Drake Net on 40 Meters?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-25 23:37:39 UTC
From: Dan Galligan
Topic: 1757 Message: 1757

Many THANKS!!!
Dan
W3RXO

The price of freedom is eternal vigilance.
Thomas Jefferson

[Non-text portions of this message have been removed]

1758. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-26 08:26:56 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1758

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1759. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-26 20:25:52 UTC
From: Garey Barrell
Topic: 1744 Message: 1759

Wink -

OK. Pins 2 and 5 look to be ok.

There may be a problem on the AVC line. I wonder about C15, a leaky cap could be a problem here.

The resistance of R4 is suspect, but typically high value resistors go UP in value rather than down.

Voltage checks should show:

1 - -1.1V
2 - 1.66V

5 - 153V
6 - 129V

Be sure RF GAIN control is full CW and AVC Slow is selected.

It might be interesting to measure these voltages with both an "old" and "new" tube in place.

Work in this area is difficult, it's best to slide the bandswitch shaft back by removing the knob, then removing the two screws in the back panel and CAREFULLY pull the shaft back to clear the area. I pull the shaft completely out, since if the portion extending out the back is hit or otherwise moved it can damage the switch wafers. When re-installing the shaft be sure the shaft flats are aligned with EACH wafer as you slide it back in. A digital photo of each wafer showing its correct orientation BEFORE removing the shaft is a good idea.

You can disconnect one end of either R1 or R2 to measure those two resistors accurately.

Interesting problem!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

tnham63 wrote:
> Garey -
>
> Ok Here is what I got each pin to ground
>

> 1- 1.1m reverse 1.1m
> 2- 166 reverse 166
>
> 5- 7.2k reverse 8.6k
> 6- 8.3k reverse 8.3k
>
> I have a manual copy.
> What do you think now?
> WINK
> WA8KOQ
>
>
>> Wink -
>>
>> OK. You're seeing parallel paths. Do you have a manual??????
>>
>> Try measuring from each pin to ground as ...
>>
>> 1 - 4.4M
>> 2 - 150
>>
>> 5 - 8.5k
>> 6 - 2.6k
>>
>> Also reverse your ohmmeter leads on each reading as well, to see if
>> there is any difference.
>>
>> See what you get here before replacing. Those ARE hard to get to.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> tnham63 wrote:
>>
>>> Garey -
>>>
>>> I did some resistance measurements off the 12BZ6 and here is what
>>>
> I
>
>>> found.
>>>
>>> R1 3.3k measures 3.7k
>>> R2 22k measures 8.3k
>>> R4 2.2m measures 1.36m

>>> R3 150 measures 180
>>> Gosh it looks like you have to just about remove the bandswitch
>>> to get to these, Ive never done that before, Don't know if I can
>>> pull it off or not unless there is an easy way to do it.
>>> Any tips?? I guess I better start with replacing these if I can
>>> would you agree?
>>>
>>> 73
>>> WINK
>>>
>>>

1760. Re: R-4 - 12BZ6 PROBLEM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-26 21:31:45 UTC
From: tnham63
Topic: 1744 Message: 1760

OK Garey -- Thanks the help - It will probably be Saturday
before I tackle this when I have more time.
Will let you know what I find.
Wink
>
> Wink -
>
> OK. Pins 2 and 5 look to be ok.
>
> There may be a problem on the AVC line. I wonder about C15, a
leaky cap
> could be a problem here.
>
> The resistance of R4 is suspect, but typically high value resistors
go
> UP in value rather than down.
>
> Voltage checks should show:
>
> 1 - -1.1V
> 2 - 1.66V
>
> 5 - 153V
> 6 - 129V
>
> Be sure RF GAIN control is full CW and AVC Slow is selected.
>
> It might be interesting to measure these voltages with both
an "old" and
> "new" tube in place.
>
> Work in this area is difficult, it's best to slide the bandswitch
shaft
> back by removing the knob, then removing the two screws in the back
> panel and CAREFULLY pull the shaft back to clear the area. I pull
the
> shaft completely out, since if the portion extending out the back
is hit
> or otherwise moved it can damage the switch wafers. When re-
installing
> the shaft be sure the shaft flats are aligned with EACH wafer as
you
> slide it back in. A digital photo of each wafer showing its
correct
> orientation BEFORE removing the shaft is a good idea.

>
> You can disconnect one end of either R1 or R2 to measure those two
> resistors accurately.
>
> Interesting problem!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> tnham63 wrote:
> > Garey -
> >
> > Ok Here is what I got each pin to ground
> >
> > 1- 1.1m reverse 1.1m
> > 2- 166 reverse 166
> >
> > 5- 7.2k reverse 8.6k
> > 6- 8.3k reverse 8.3k
> >
> > I have a manual copy.
> > What do you think now?
> > WINK
> > WA8KOQ
> >
> >
> >> Wink -
> >>
> >> OK. You're seeing parallel paths. Do you have a manual??????
> >>
> >> Try measuring from each pin to ground as ...
> >>
> >> 1 - 4.4M
> >> 2 - 150
> >>
> >> 5 - 8.5k
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> >>
> >> Also reverse your ohmmeter leads on each reading as well, to see
if
> >> there is any difference.
> >>
> >> See what you get here before replacing. Those ARE hard to get
to.
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> >> 73, Garey - K4OAH
> >> Glen Allen, VA
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> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> Garey -
> >>>
> >>> I did some resistance measurements off the 12BZ6 and here is
what
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> > I
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> >>> found.
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> >>> R1 3.3k measures 3.7k
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> >>> to get to these, Ive never done that before, Don't know if I can
> >>> pull it off or not unless there is an easy way to do it.
> >>> Any tips?? I guess I better start with replacing these if I can
> >>> would you agree?
> >>>
> >>> 73
> >>> WINK
> >>>
> >>>
>

1761. TR4CWrit output issue.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-27 20:36:39 UTC
From: jch39_99
Topic: 1761 Message: 1761

Bit by the Drake bug.
Picked up a pretty TR4CWrit off eBay.
RX sounds great. S meter is stingy.
Powered up last night. Set the bias. All okay.
Tuned it up per manual ... okay plate amps = 0.35 as recommended.
Power out is low on CW and SSB (60 and 80 peak respectively).
Here is the kicker. On CW if I click in the 500hz filter
then transmit, the power is only 1 watt out.
Now, I hope to diagnose and fix the problems (if not too complicated).
I have been a ham for many years, built and fixed a few things; but I
admit I am not the brightest electronic bulb in the pack.
Pse make any suggestions "easy" to understand.
Tnx/73
Crit/K4BXN

1762. Re: TR4CWrit output issue.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-29 12:30:31 UTC
From: jch39_99
Topic: 1761 Message: 1762

A big thanks to Jeff Covelli (wa8saj) for the suggestion of adjusting C130 on the top rear of the chassis for equal backgrnd hiss when switching from one side band to the other. Worked like charm. Nearly equal (as it should be) power out on CW whether the 500 hz filter is inline or not.
Tnx Jeff ... maybe that is why he is so well respected in the Drake community.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Bit by the Drake bug.
> Picked up a pretty TR4CWrit off eBay.
> RX sounds great. S meter is stingy.
> Powered up last night. Set the bias. All okay.
> Tuned it up per manual ... okay plate amps = 0.35 as recommended.
> Power out is low on CW and SSB (60 and 80 peak respectively).
> Here is the kicker. On CW if I click in the 500hz filter
> then transmit, the power is only 1 watt out.
> Now, I hope to diagnose and fix the problems (if not too complicated).
> I have been a ham for many years, built and fixed a few things; but I
> admit I am not the brightest electronic bulb in the pack.
> Pse make any suggestions "easy" to understand.
> Tnx/73
> Crit/K4BXN
>

1763. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-31 16:17:26 UTC
From: tnham63
Topic: 1744 Message: 1763

OK Garey - Here is what I got.
I replaced R4,R1,R2, and C15. R4 measured 2.1m - R1 4.2k - and R2
19k. I also checked the voltages before and after as you suggested.
Old 12BZ6 Before After
Pin1 - 2.63v 2.70
Pin2 - 3.40v 3.64v
Pin5 - 129v 130v
Pin6 - 112v 122v

NOS 12BZ6 Before After
Pin1 - 1.43v 1.45v
Pin2 - 1.71v 1.80v
Pin5 - 139v 150v
Pin6 - 122v 131v
I agree the NOS tube checks better, but it does not work. You plug it
in and the S-meter goes to S7 and stays there. Just about the same as
pulling out the tube results. But the old Tube works !!!!
I don't get it or know what to check next. Any ideas>
73
WINK
>
> Wink -
>
> OK. Pins 2 and 5 look to be ok.
>
> There may be a problem on the AVC line. I wonder about C15, a
leaky cap
> could be a problem here.
>
> The resistance of R4 is suspect, but typically high value resistors
go
> UP in value rather than down.
>
> Voltage checks should show:
>
> 1 - -1.1V
> 2 - 1.66V
>
> 5 - 153V
> 6 - 129V
>
> Be sure RF GAIN control is full CW and AVC Slow is selected.
>
> It might be interesting to measure these voltages with both
an "old" and

> "new" tube in place.
>
> Work in this area is difficult, it's best to slide the bandswitch
shaft
> back by removing the knob, then removing the two screws in the back
> panel and CAREFULLY pull the shaft back to clear the area. I pull
the
> shaft completely out, since if the portion extending out the back
is hit
> or otherwise moved it can damage the switch wafers. When re-
installing
> the shaft be sure the shaft flats are aligned with EACH wafer as
you
> slide it back in. A digital photo of each wafer showing its
correct
> orientation BEFORE removing the shaft is a good idea.
>
> You can disconnect one end of either R1 or R2 to measure those two
> resistors accurately.
>
> Interesting problem!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> tnham63 wrote:
> > Garey -
> >
> > Ok Here is what I got each pin to ground
> >
> > 1- 1.1m reverse 1.1m
> > 2- 166 reverse 166
> >
> > 5- 7.2k reverse 8.6k
> > 6- 8.3k reverse 8.3k
> >
> > I have a manual copy.
> > What do you think now?
> > WINK
> > WA8KOQ
> >
> >
> >> Wink -
> >>
> >> OK. You're seeing parallel paths. Do you have a manual??????

> >>
> >> Try measuring from each pin to ground as ...
> >>
> >> 1 - 4.4M
> >> 2 - 150
> >>
> >> 5 - 8.5k
> >> 6 - 2.6k
> >>
> >> Also reverse your ohmmeter leads on each reading as well, to see
if
> >> there is any difference.
> >>
> >> See what you get here before replacing. Those ARE hard to get
to.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> Garey -
> >>>
> >>> I did some resistance measurements off the 12BZ6 and here is
what
> >>>
> > I
> >
> >>> found.
> >>>
> >>> R1 3.3k measures 3.7k
> >>> R2 22k measures 8.3k
> >>> R4 2.2m measures 1.36m
> >>> R3 150 measures 180
> >>> Gosh it looks like you have to just about remove the bandswitch
> >>> to get to these, Ive never done that before, Don't know if I can
> >>> pull it off or not unless there is an easy way to do it.
> >>> Any tips?? I guess I better start with replacing these if I can
> >>> would you agree?
> >>>
> >>> 73
> >>> WINK
> >>>
> >>>
>

1764. Drake items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-01-31 17:12:45 UTC
From: Ken Simpson, W8EK
Topic: 1764 Message: 1764

Drake items for sale:

Drake hand microphone
This is like the hand mic that came with the Drake TR-72, TR-22 C, TR-33 C, and others. It has the standard 4 pin plug wired for Drake/Kenwood, and is a 500 ohm mic. Of course it could be used on an HF rig as well as a 2 m rig. It looks great and works fine. $30

Drake 1525 EM Touchtone DTMF Microphone
This is the mic that was used to add a touchtone pad to many rigs in the 70s and 80s. It is a normal hand mic from the front, but has a touchtone pad on the back. Four pin mic plug. This particular unit has been used, but is in good shape and includes paper work. $38

Drake TV-1000-LP Low pass filter
This is the filter that is in the copper case, and may also be used on the low end of six meters, as well as HF. It is a 50 ohm filter and is good for 1000 W AM below 30 MHz (which would be over 3000 Watts PEP SSB), and about 200 W up to 52 MHz. With paper work for $30

Drake TV-3300-LP Low Pass Filter
This is a modern low pass filter to go between your transmitter and antenna, and has been optimized to have more attenuation in the 40 MHz region, where many TVs have their IF. It is good for 1000 Watts "average" according to the manual, and has over 80 db attenuation at 41 MHz. This one looks great, and includes the paper work. $30

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has cutouts in the back for antenna, power, etc. It includes the shoulder strap, and is in good shape. $12

0.206 inch chassis mount jack
This is similar to what is used in the Drake HF gear for a microphone jack.
It is NOS, labeled JJ-033, with 2 conductors, plus the ground.
$6

PJ-068 Microphone plug - 0.206 inch
As used for a microphone plug on Drake HF gear. This one is in good shape, but it has been used, and has solder on the terminals. $8

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

1765. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-02 16:51:57 UTC
From: Garey Barrell
Topic: 1744 Message: 1765

Wink -

Well the voltages with the NEW tube are much closer to what they should be.... The OLD tube is drawing considerably more current than the NEW one, indicating possible grid emission or gas problems.

You don't mention, but you DID readjust the Bias adjustment (Section VII, L) in the manual with the NEW tube installed.....??

73, Garey - K4OAH
Glen Allen, VA

tnham63 wrote:
> OK Garey - Here is what I got.
> I replaced R4,R1,R2, and C15. R4 measured 2.1m - R1 4.2k - and R2
> 19k. I also checked the voltages before and after as you suggested.
> Old 12BZ6 Before After
> Pin1 - 2.63v 2.70
> Pin2 - 3.40v 3.64v
> Pin5 - 129v 130v
> Pin6 - 112v 122v
>
> NOS 12BZ6 Before After
> Pin1 - 1.43v 1.45v
> Pin2 - 1.71v 1.80v
> Pin5 - 139v 150v
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> I agree the NOS tube checks better, but it does not work. You plug it
> in and the S-meter goes to S7 and stays there. Just about the same as
> pulling out the tube results. But the old Tube works !!!!
> I don't get it or know what to check next. Any ideas>
> 73
> WINK
>
>> Wink -
>>
>> OK. Pins 2 and 5 look to be ok.
>>
>> There may be a problem on the AVC line. I wonder about C15, a
>>
> leaky cap
>
>> could be a problem here.
>>
>> The resistance of R4 is suspect, but typically high value resistors
>>

> go
>
>> UP in value rather than down.
>>
>> Voltage checks should show:
>>
>> 1 - -1.1V
>> 2 - 1.66V
>>
>> 5 - 153V
>> 6 - 129V
>>
>> Be sure RF GAIN control is full CW and AVC Slow is selected.
>>
>

1766. Another Query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-02 17:48:42 UTC
From: jch39_99
Topic: 1766 Message: 1766

Okay guys.

Picked up a TR4 (not to be confused w/ the TR4CWrit I previously was asking about).

Well, I found a bad tube in the TR4 (6ev7) which when replaced solved some of the problems it was having. RX is now strong and the bias can be set normally.

I traded out the other tubes (except for finals) BUT I am still having a problem ... set bias okay, but can not get any increase in plate current regardless of the Xmtr Gain setting. Looking underneath I see no obvious problems.

I have Garey Service manual coming.

Any ideas where to start other than replacing finals (I currently do not have a spare set, I am willing to try and risk losing)?

Tnx for any assistance forth coming.
73/Crit/K4BXN

1767. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-02 22:52:23 UTC
From: tnham63
Topic: 1744 Message: 1767

Garey- When I go through that Bias setting, I can only get S-5 max S-meter reading on the new tube.. With the old tube 20DB S meter reading as required.
Just no gain there....

Wink

> Wink -
>
> Well the voltages with the NEW tube are much closer to what they should
> be.... The OLD tube is drawing considerably more current than the NEW
> one, indicating possible grid emission or gas problems.
>
> You don't mention, but you DID readjust the Bias adjustment (Section
> VII, L) in the manual with the NEW tube installed.....??
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
> tnham63 wrote:
> > OK Garey - Here is what I got.
> > I replaced R4,R1,R2, and C15. R4 measured 2.1m - R1 4.2k - and R2
> > 19k. I also checked the voltages before and after as you suggested.
> > Old 12BZ6 Before After
> > Pin1 - 2.63v 2.70
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> > Pin5 - 129v 130v
> > Pin6 - 112v 122v
> >
> > NOS 12BZ6 Before After
> > Pin1 - 1.43v 1.45v
> > Pin2 - 1.71v 1.80v
> > Pin5 - 139v 150v
> > Pin6 - 122v 131v
> > I agree the NOS tube checks better, but it does not work. You plug it
> > in and the S-meter goes to S7 and stays there. Just about the same as
> > pulling out the tube results. But the old Tube works !!!!

> > I don't get it or know what to check next. Any ideas>
> > 73
> > WINK
> >
> >> Wink -
> >>
> >> OK. Pins 2 and 5 look to be ok.
> >>
> >> There may be a problem on the AVC line. I wonder about C15, a
> >>
> > leaky cap
> >
> >> could be a problem here.
> >>
> >> The resistance of R4 is suspect, but typically high value
resistors
> >>
> > go
> >
> >> UP in value rather than down.
> >>
> >> Voltage checks should show:
> >>
> >> 1 - -1.1V
> >> 2 - 1.66V
> >>
> >> 5 - 153V
> >> 6 - 129V
> >>
> >> Be sure RF GAIN control is full CW and AVC Slow is selected.
> >>
> >
>

1768. RV-4 attenuates both received and xmitted signals on the TR-4Cw/rit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-03 02:21:32 UTC
From: ka2oig
Topic: 1768 Message: 1768

The RV-4 is the two tube model. When switched on, no matter position of the function (RCV, RCV/Xmit or Xmit) the received signal drops to zero, and the S-Meter goes to zero. On xmit with the TR-4CW/rit when the RV-4 is in RCV the output of the TR is attenuated to such a low rate of output that it is not copied by other hams in the QSO. When in Xmit or RCV/xmit the output is also zero.

I have checked the tubes and also replaced the tubes, checked the voltage on each pin and also the resistance at each pin - all ok. I've checked the cables between the cinh-jones connector and the solder joints of each line inside the RV - all ok.

This attenuation is that same whether plugged into a TR-3 or the TR-4Cw/rit.

Suggestons?

TNKs Kris KA2OIG

1769. Re: HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-03 02:57:29 UTC
From: ka2oig
Topic: 182 Message: 1769

Walt and Garey,

My manual has a TR-4Cw and then there are added pages for the RIT as Walt mentioned, plus the photo on the front shows the rit control on the front lower right of the TR panel. It would be interesting to know "officially" if they ever did produce a manual with TR-4Cw/RIT or such on the cover.
Interestingly, the instructions for both the cw 500Hz filter and the RIT are inserted after the table of contents as pages iv through vii.

^Then the photo on page 1-2 is back to the old TR-4C configuration, that is w/o : 1) the RIT and NB buttons; 2) the RIT knob, and 3) the filter knob.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Walt -
>
> There is no manual for the TR-4Cw/RIT. The manual you want will have
> schematic 11017642500 and be for the TR-4Cw. There is a two sided sheet
> covering the RIT board which is the only difference between the two.
> The schematic will be on the CD (eventually) but I'll send you the scan
> for the RIT sheet. I don't think the list allows attachments.
>
> 73, Garey - K4OAH
> Atlanta
>
> Drake 2-B, 4-B & C-Line Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Walter Milton wrote:
> > Speaking of manuals, Larry or anyone where can I find a copy of a TR4CWR/it
> > manual. On close inspection the manual I have is for the TR4C.
> >
> > Thanks,
> >
> > Walt., KA2NJF
> > Psalm 1
> > A child of the Living God

> >
> >
> >
> > _____
> >
> > From: DrakeRadio@yahoogroups.com
[mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of Larry Taft
> > Sent: Wednesday, January 03, 2007 12:00 AM
> > To: DrakeRadio@yahoogroups.com
> > Subject: Re: [DrakeRadio] HELP!
> >
> >
> >
> > Yeah, you do need an original manual just for having it. The real
value
> > in Garey's CD is the location of every part is shown and saves
hours of
> > tracing time. For you slowpokes living in the great frozen north
it
> > could be weeks.
> >
> > 73 Larry K2LT
> >
> > K5VSE wrote:
> >
> >> Thanks Larry,
> >> I might go ahead and buy the CD. I still want to find an
original manual
> >> though, because it will match all my Drake stuff correctly.
> >>
> >> 73,
> >> Mena Mike
> >>
> >>
> >> Formerly WB6VSE, Senior Tech. Amateur Division
> >> SBE/Linear Systems, Watsonville, CA
> >> Pupule384 On 3922 Nightly
> >> WEB Site: http://members.
> >>
> > <http://members.tripod.com/~sjsharks/index.html>
> > tripod.com/~sjsharks/index.html
> >
> >> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> >> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> >> APA 220, USS Okanogan, LSD31, USS Point Defiance
> >> All email scanned with Norton 2006
> >> "In God We Trust"
> >>
> >>

> >> [Non-text portions of this message have been removed]
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> >>
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> >>
> >> Yahoo! Groups Links
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>

1770. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-03 21:58:58 UTC
From: Garey Barrell
Topic: 1744 Message: 1770

Wink -

OK, I think we have more than one problem. The fact that your are unable to correctly set the S-Meter adjustments with a "new" tube in V1 tells me that there is something wrong elsewhere.

First try pulling V9 and see if the S-Meter can be adjusted properly with a "new" tube at V1.

If that doesn't work, try subbing V4 and V5, again with a "new" tube in V1, to see if replacing one or both of them affects your ability to set the S-meter.

73, Garey - K4OAH
Glen Allen, VA

tnham63 wrote:
> Garey- When I go through that Bias setting, I can only get S-5 max S-
> meter reading on the new tube.. With the old tube 20DB S meter
> reading as required.
> Just no gain there....
>
> Wink
>
>
>> Wink -
>>
>> Well the voltages with the NEW tube are much closer to what they
>>
> should
>
>> be.... The OLD tube is drawing considerably more current than the
>>
> NEW
>
>> one, indicating possible grid emission or gas problems.
>>
>> You don't mention, but you DID readjust the Bias adjustment
>>
> (Section
>
>> VII, L) in the manual with the NEW tube installed.....??
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>

>>
>>
>> tnham63 wrote:
>>
>>> OK Garey - Here is what I got.
>>> I replaced R4,R1,R2, and C15. R4 measured 2.1m - R1 4.2k - and R2
>>> 19k. I also checked the voltages before and after as you
>>>
> suggested.
>
>>> Old 12BZ6 Before After
>>> Pin1 - 2.63v 2.70
>>> Pin2 - 3.40v 3.64v
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>>> Pin6 - 112v 122v
>>>
>>> NOS 12BZ6 Before After
>>> Pin1 - 1.43v 1.45v
>>> Pin2 - 1.71v 1.80v
>>> Pin5 - 139v 150v
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>>> I agree the NOS tube checks better, but it does not work. You
>>>
> plug it
>
>>> in and the S-meter goes to S7 and stays there. Just about the
>>>
> same as
>
>>> pulling out the tube results. But the old Tube works !!!!
>>> I don't get it or know what to check next. Any ideas>
>>> 73
>>> WINK
>>>
>>>
>>>> Wink -
>>>>
>>>> OK. Pins 2 and 5 look to be ok.
>>>>
>>>> There may be a problem on the AVC line. I wonder about C15, a
>>>>
>>>>
>>> leaky cap
>>>
>>>
>>>> could be a problem here.
>>>>
>>>> The resistance of R4 is suspect, but typically high value
>>>>
> resistors

>
>>>>
>>>>
>>> go
>>>
>>>
>>>> UP in value rather than down.
>>>>
>>>> Voltage checks should show:
>>>>
>>>> 1 - -1.1V
>>>> 2 - 1.66V
>>>>
>>>> 5 - 153V
>>>> 6 - 129V
>>>>
>>>> Be sure RF GAIN control is full CW and AVC Slow is selected.
>>>>

1771. Thanks.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-04 13:36:37 UTC
From: jch39_99
Topic: 1771 Message: 1771

Well, I apparently have somehow offended the members of this board. I stopped getting responses to my queries for help. Not sure what I did, but I apologize I'm sorry. Thanks for the early help I did get. This is my last post. I will still be reading as I do get some great info that I can use.
73/Crit/K4BXN

1772. Re: [DrakeRadio] Thanks.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-04 14:16:39 UTC
From: Don
Topic: 1771 Message: 1772

I do not think that anyone was offended, just waiting.

>I have Garey Service manual coming.
>
>Any ideas where to start other than replacing finals (I currently do
>not have a spare set, I am willing to try and risk losing)?"

Have you got the manual yet? spare finals? if so please re-post
your questions..

Also, many of our members here stay pretty busy and only get to our e-mail every so often.
the rest of us may just not have an answer !!

Don
AD7LL
http://www.srcisra.org/

----- Original Message -----
From: jch39_99
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 04, 2009 6:36 AM
Subject: [DrakeRadio] Thanks.

Well, I apparently have somehow offended the members of this board. I
stopped getting responses to my queries for help. Not sure what I
did, but I apologize . I'm sorry. Thanks for the early help I did
get. This is my last post. I will still be reading as I do get some
great info that I can use.
73/Crit/K4BXN

[Non-text portions of this message have been removed]

1773. Re: [DrakeRadio] Thanks.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-04 19:35:33 UTC
From: Michael Shelly
Topic: 1771 Message: 1773

I hope it's because everyone ran out of answers!
?
Mike
WB2KKI
?

--- On Wed, 2/4/09, jch39_99 <jcharley@...> wrote:

From: jch39_99 <jcharley@...>
Subject: [DrakeRadio] Thanks.
To: DrakeRadio@yahoogroups.com
Date: Wednesday, February 4, 2009, 8:36 AM

Well, I apparently have somehow offended the members of this board. I stopped getting responses to my queries for help. Not sure what I did, but I apologize ? I'm sorry. Thanks for the early help I did get. This is my last post. I will still be reading as I do get some great info that I can use.
73/Crit/K4BXN

[Non-text portions of this message have been removed]

1774. Re: [DrakeRadio] Thanks.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-04 20:31:40 UTC
From: Garey Barrell
Topic: 1771 Message: 1774

Crit -

As my Grand-daughter says, "chill". You haven't done anything wrong, and just because you're paranoid doesn't meant we're not out to get you! :-) Answers do not always come back immediately.

We really don't have enough information to know where to point you.... By the way, it's generally NOT a good idea to swap all the tubes for "new" ones. There are several problems with this approach. The biggest problem is that any "NEW" tube is probably 40 or more years old, and may or may not be "good". With RF circuits in particular, minor differences in tube manufacture, especially from brand-to-brand, may require realignment. This can make a new GOOD tube appear to be worse than an old BAD tube. Much better to work with one circuit or function at a time, and if you suspect that A tube may be the problem try A new tube and note the difference, if any....

IF you can set the bias current, there is probably nothing wrong with the finals. While they may be "soft", if you can set the Bias current the DC circuitry is working and the tubes are not "dead". They're certainly good enough to allow you to troubleshoot the "other" problems.

Reading the Drake manual, especially the Circuit Description section, will point you to several possible problems. Step one is to understand what happens when you tune up. Since you have a TR-4CwRIT that apparently IS working, and that you know HOW to tune up, we'll assume that you know that the Sideband switch MUST be in the "-X" position.

So. You have Bias current, but switching to "X-CW" and increasing the XMTR GAIN and peaking the RF TUNE doesn't result in an increase above the idle current of 100 mA.

1. Do you have a key plugged in? If so, is it "closed"?

2. Does the VOX pull in? (Can you hear the relay click?)

3. Have you tried more than one band? (80M is a good place to start.)

IF all the above is OK, the first thing to check is to see if K2, the small relay under the chassis near the Balanced Modulator is pulling in. This relay switches a fixed capacitor in series with the Carrier Oscillator crystal to shift its' frequency up by about 900 Hz to put it within the passband of the filter. If you have a General Coverage receiver, you can listen to the Carrier Oscillator at 9.000 MHz, (you might need to run a wire from the GC receiver antenna input to the general area of the CO,) and listen to see if it is actually ON 9.000 MHz, and that it "shifts" to about 9.001 MHz when you switch to "X-CW".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jch39_99 wrote:
> Well, I apparently have somehow offended the members of this board. I
> stopped getting responses to my queries for help. Not sure what I
> did, but I apologize ? I'm sorry. Thanks for the early help I did
> get. This is my last post. I will still be reading as I do get some
> great info that I can use.
> 73/Crit/K4BXN
>
>

1775. collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-04 23:36:25 UTC
From: Mike Shelly
Topic: 1775 Message: 1775

I havn't gotton a responce from from the Collins group on this so I figure I'd try the Drake group.

I figure where there is a Drake can't be a Collins too far away.

I have a 75S-1 Receiver. The S meter is in very good shape but has a issue with the mechanical Zero and it sticks near Zero when no voltage is applied. Otherwise works well. But being anal have to fix it.

I e-mailed Simpson who manufactured the meter back in the day and they won't look at it.

So the question is, Anyone know who can fix a meter movement. Or give me some pointers on how to clean and adjust it mayself. Been looking on e-bay for a replacement. Anyone know of one for sale at a resonable price?

Many Thanks
Mike
WB2KKI
T-X4C

1776. RE: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-05 10:58:34 UTC
From: Jose V. Gavila
Topic: 1775 Message: 1776

Hello Mike,

>I havn't gotton a responce from from the Collins group on this so I
>figure I'd try the Drake group.
>
>I figure where there is a Drake can't be a Collins too far away.

Yes... at least in my case: I own a nice S-line and a KWM-2A :-)

>I have a 75S-1 Receiver. The S meter is in very good shape but has a
>issue with the mechanical Zero and it sticks near Zero when no
>voltage is applied. Otherwise works well. But being anal have to fix
>it.
>
>I e-mailed Simpson who manufactured the meter back in the day and
>they won't look at it.
>
>So the question is, Anyone know who can fix a meter movement. Or give
>me some pointers on how to clean and adjust it mayself. Been looking
>on e-bay for a replacement. Anyone know of one for sale at a
>resonable price?

Well, I can provide my recent experience fixing a meter movement in a 'new' (I got it with the promise it was 'new in box, perfectly working') Diamond SX-200 power/SWR meter. It had a bad habit: zero was not always at same point!. I could not understand it: it indicated power fine and repetitively in all power scales. But then, when neddle needed to go back to zero, most of the times it rested at another (higher) position, and not always the same. Tapping the meter got it back to the 'real' zero. I thought there was some friction which prevented movement... but, when I got the meter out, I found that it was really in pseudo-stable position when it was not at real zero!. I mean, if I tried to move the neddle to zero, manually (just slightly touching the neddle), it went back to the wrong resting position!

I was puzzled as there was no obvious mechanical trouble I could see... until I searched for D'Arsonval movement and ended, among other places, here:

http://www.engineersedge.com/instrumentation/electrical_meters_measurement/darsonval_movement.htm

As you can see, there are TWO control springs, one in the upper side (the one I saw and was perfect) AND another in the lower side. Even if I could not see it, I knew problem was there!. So I carefully dismantled meter (piece of cake :-( )... and, yes, there was a problem there: lower spiral was uncorrectly routed (probably from factory) so it was overlapped at one point. VERY carefully, I got it back where it should be, spiral was free again, and movement was fully restored.

Well, perhaps this has nothing to do with your problem but it could be somewhat related, as any minuscule metallic debris could have been stuck in the strong permanent magnet. Important thing here is that meter is a delicate thing and any small mechanical problem means a bad working unit.

Best regards,

JOSE

---
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila.com
RadioRepair BLOG
http://radiorepair.blogspot.com/
European Boatanchors List
http://groups.yahoo.com/group/euro_ba_swap
Amateur Repairs List
http://groups.yahoo.com/group/amateur-repairs

1777. Re: Another Query

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-05 13:10:05 UTC
From: tjb813
Topic: 1766 Message: 1777

At the risk of sounding trite, a mistake I have made with the TR series is not having the sideband selector on th "X" position in the tune mode. But you probably already know this and I just had to be sure of the simple things first.

The next thing I find is the 15 Ohm resistors in the cathode of the finals. Baring that...

Listen with another receiver and see if you can hear the carrier. If so, its probably in the driver (12by7) or the offset voltage to the balanced modulator fron the drive control pot. If not, check the mixer tubes. If the receiver is "up to par" then the filter is probably not an issue.

Alignment of the stages between the balance modulator and the mixers can have a pronounced affect.

Just a list of ideas to ponder and things to look at.

Let us know what you find.
PS I have rescued several basket case TR-3/4's. It's just a matter of patience and investigation.
73 - Tim KD8CN

--- In DrakeRadio@yahoogroups.com, "jch39_99" <jcharley@...> wrote:
>
> Okay guys.
>
> Picked up a TR4 (not to be confused w/ the TR4CWrit I previously was
> asking about).
>
> Well, I found a bad tube in the TR4 (6ev7) which when replaced
solved
> some of the problems it was having. RX is now strong and the bias
can
> be set normally.
>
> I traded out the other tubes (except for finals) BUT I am still
having
> a problem ... set bias okay, but can not get any increase in plate
> current regardless of the Xmtr Gain setting. Looking underneath I
see
> no obvious problems.
>
> I have Garey Service manual coming.
>

> Any ideas where to start other than replacing finals (I currently do
> not have a spare set, I am willing to try and risk losing)?
>
> Tnx for any assistance forth coming.
> 73/Crit/K4BXN
>

1778. RE: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-05 18:27:14 UTC
From: Michael Shelly
Topic: 1775 Message: 1778

Many thnaks! Problem is very simular or same so will check that site out. It may apply in this case. Again THANKS. I also have a KWM-2 very nice and was the radio of my dreams for a long time. Only took 42 years to get one.

Mike

--- On Thu, 2/5/09, Jose V. Gavila <eb5agv@...> wrote:

From: Jose V. Gavila <eb5agv@...>
Subject: RE: [DrakeRadio] collins s meter
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 5, 2009, 5:58 AM

Hello Mike,

>I havn't gotton a responce from from the Collins group on this so I
>figure I'd try the Drake group.
>
>I figure where there is a Drake can't be a Collins too far away.

Yes... at least in my case: I own a nice S-line and a KWM-2A :-)

>I have a 75S-1 Receiver. The S meter is in very good shape but has a
>issue with the mechanical Zero and it sticks near Zero when no
>voltage is applied. Otherwise works well. But being anal have to fix
>it.
>
>I e-mailed Simpson who manufactured the meter back in the day and
>they won't look at it.
>
>So the question is, Anyone know who can fix a meter movement. Or give
>me some pointers on how to clean and adjust it mayself. Been looking
>on e-bay for a replacement. Anyone know of one for sale at a
>resonable price?

Well, I can provide my recent experience fixing a meter movement in a 'new' (I got it with the promise it was 'new in box, perfectly working') Diamond SX-200 power/SWR meter. It had a bad habit: zero was not always at same point!. I could not understand it: it indicated power fine and repetitively in all power scales. But then, when neddle needed to go back to zero, most of the times it rested at another (higher) position, and not always the same. Tapping the meter got it back to the 'real' zero. I thought there was some friction which prevented movement... but, when I got the meter out, I found that it was really in pseudo-stable position when it was not at real zero!. I mean, if I tried to move the neddle to zero, manually (just slightly touching the neddle), it went back to the wrong resting position!

I was puzzled as there was no obvious mechanical trouble I could see... until I searched for D'Arsonval movement and ended, among other places, here:

http://www.engineer sedge.com/ instrumentation/ electrical_ meters_measureme nt/darso nval_movement. htm

As you can see, there are TWO control springs, one in the upper side (the one I saw and was perfect) AND another in the lower side. Even if I could not see it, I knew problem was there!. So I carefully dismantled meter (piece of cake :-( )... and, yes, there was a problem there: lower spiral was uncorrectly routed (probably from factory) so it was overlapped at one point. VERY carefully, I got it back where it should be, spiral was free again, and movement was fully restored.

Well, perhaps this has nothing to do with your problem but it could be somewhat related, as any minuscule metallic debris could have been stuck in the strong permanent magnet. Important thing here is that meter is a delicate thing and any small mechanical problem means a bad working unit.

Best regards,

JOSE

------------ --------- --------- --------- --------- -
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila. com
RadioRepair BLOG
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European Boatanchors List
http://groups. yahoo.com/ group/euro_ ba_swap
Amateur Repairs List
http://groups. yahoo.com/ group/amateur- repairs

[Non-text portions of this message have been removed]

1779. Re: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 01:17:17 UTC
From: Don
Topic: 1775 Message: 1779

I would say to pratice on a couple of cheap meters first so you can learn how delicate they can be.
I would hate to see you accidently ruin an original meter.

----- Original Message -----
From: Michael Shelly
To: DrakeRadio@yahoogroups.com
Sent: Thursday, February 05, 2009 11:27 AM
Subject: RE: [DrakeRadio] collins s meter

Many thnaks! Problem is very simular or same so will check that site out. It may apply in this case. Again THANKS. I also have a KWM-2 very nice and was the radio of my dreams for a long time. Only took 42 years to get one.

Mike

--- On Thu, 2/5/09, Jose V. Gavila <eb5agv@...> wrote:

From: Jose V. Gavila <eb5agv@...>
Subject: RE: [DrakeRadio] collins s meter
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 5, 2009, 5:58 AM

Hello Mike,

>I havn't gotton a responce from from the Collins group on this so I
>figure I'd try the Drake group.
>
>I figure where there is a Drake can't be a Collins too far away.

Yes... at least in my case: I own a nice S-line and a KWM-2A :-)

>I have a 75S-1 Receiver. The S meter is in very good shape but has a
>issue with the mechanical Zero and it sticks near Zero when no
>voltage is applied. Otherwise works well. But being anal have to fix
>it.
>
>I e-mailed Simpson who manufactured the meter back in the day and
>they won't look at it.
>
>So the question is, Anyone know who can fix a meter movement. Or give
>me some pointers on how to clean and adjust it mayself. Been looking
>on e-bay for a replacement. Anyone know of one for sale at a
>resonable price?

Well, I can provide my recent experience fixing a meter movement in a 'new' (I got it with the promise it was 'new in box, perfectly working') Diamond SX-200

power/SWR meter. It had a bad habit: zero was not always at same point!. I could not understand it: it indicated power fine and repetitively in all power scales. But then, when neddle needed to go back to zero, most of the times it rested at another (higher) position, and not always the same. Tapping the meter got it back to the 'real' zero. I thought there was some friction which prevented movement... but, when I got the meter out, I found that it was really in pseudo-stable position when it was not at real zero!. I mean, if I tried to move the neddle to zero, manually (just slightly touching the neddle), it went back to the wrong resting position!

I was puzzled as there was no obvious mechanical trouble I could see... until I searched for D'Arsonval movement and ended, among other places, here:

http://www.engineer sedge.com/ instrumentation/ electrical_ meters_measureme nt/darso nval_movement. htm

As you can see, there are TWO control springs, one in the upper side (the one I saw and was perfect) AND another in the lower side. Even if I could not see it, I knew problem was there!. So I carefully dismantled meter (piece of cake :-( )... and, yes, there was a problem there: lower spiral was uncorrectly routed (probably from factory) so it was overlapped at one point. VERY carefully, I got it back where it should be, spiral was free again, and movement was fully restored.

Well, perhaps this has nothing to do with your problem but it could be somewhat related, as any minuscule metallic debris could have been stuck in the strong permanent magnet. Important thing here is that meter is a delicate thing and any small mechanical problem means a bad working unit.

Best regards,

JOSE

------------ --------- --------- --------- --------- -
73 EB5AGV - JOSE V. GAVILA
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1780. RE: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 01:42:02 UTC
From: Jim Shorney
Topic: 1775 Message: 1780

On Thu, 5 Feb 2009 11:58:34 +0100, Jose V. Gavila wrote:

>Well, perhaps this has nothing to do with your problem but it could be somewhat
>related, as any minuscule metallic debris could have been stuck in the strong
>permanent magnet. Important thing here is that meter is a delicate thing and any
>small mechanical problem means a bad working unit.

I will echo Jose's comments. Either one of the mainsprings could be
hung up. Other possibilities are the pointer could be very slightly
bent towards the faceplate or the scale plate and hanging up at that
single point. Or there could be a small metal filing stuck to the
magnet. Or the jewels could be misadjusted.

As has been mentioned, be VERY CARFUL. Work on a completely clean work
area - little bits of metal stuch to the magnet can be extremely
difficult to remove. Work under magnification if at all possible.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1781. RE: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 11:59:00 UTC
From: Michael Shelly
Topic: 1775 Message: 1781

Very good points thanks! What I would like to do is get another working meter fix this one and sell it on ebay to pay for the replacement. If I do *&^% up at least the radio will remain intact. My gut tells me the problem is simple. I only need to plung into it without screwing up!!

Thanks for the info.

If anyone has a meter you can e-mail me offline @ wb2kki@yahoo.com.

Mike

--- On Thu, 2/5/09, Jim Shorney <jshorney@...> wrote:

From: Jim Shorney <jshorney@...>
Subject: RE: [DrakeRadio] collins s meter
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Date: Thursday, February 5, 2009, 8:42 PM

On Thu, 5 Feb 2009 11:58:34 +0100, Jose V. Gavila wrote:

>Well, perhaps this has nothing to do with your problem but it could be somewhat
>related, as any minuscule metallic debris could have been stuck in the strong
>permanent magnet. Important thing here is that meter is a delicate thing and any
>small mechanical problem means a bad working unit.

I will echo Jose's comments. Either one of the mainsprings could be
hung up. Other possibilities are the pointer could be very slightly
bent towards the faceplate or the scale plate and hanging up at that
single point. Or there could be a small metal filing stuck to the
magnet. Or the jewels could be misadjusted.

As has been mentioned, be VERY CARFUL. Work on a completely clean work
area - little bits of metal stuch to the magnet can be extremely
difficult to remove. Work under magnification if at all possible.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/ L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups. yahoo.com/ group/HyGain_ 3750/
http://radiojim. exofire.net
http://incolor. inetnebr. com/jshorney
http://www.nebraska ghosts.org

[Non-text portions of this message have been removed]

1782. T4XC PA Cage cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 14:02:54 UTC
From: Richard Hanna
Topic: 1782 Message: 1782

I have a Drake T4XC which I bought used many years ago to go with my R4C which I bought new. It is missing the PA cage cover. Anyone have one from a parted out rig they would sell, or know of a source? Thanks for the help!

Dick Hanna
K3VYY

[Non-text portions of this message have been removed]

1783. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 19:07:57 UTC
From: tnham63
Topic: 1744 Message: 1783

Ok Garey -- I tried all three, no change. Pulling V9 - Replaced V4
And V5 -- No change. Old tube still working..
Any tips?
Thanks
WINK
WA8KOQ
>
> Wink -
>
> OK, I think we have more than one problem. The fact that your are
> unable to correctly set the S-Meter adjustments with a "new" tube
in V1
> tells me that there is something wrong elsewhere.
>
> First try pulling V9 and see if the S-Meter can be adjusted
properly
> with a "new" tube at V1.
>
> If that doesn't work, try subbing V4 and V5, again with a "new"
tube in
> V1, to see if replacing one or both of them affects your ability to
set
> the S-meter.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
> tnham63 wrote:
> > Garey- When I go through that Bias setting, I can only get S-5
max S-
> > meter reading on the new tube.. With the old tube 20DB S meter
> > reading as required.
> > Just no gain there....
> >
> > Wink
> >
> >
> >> Wink -
> >>
> >> Well the voltages with the NEW tube are much closer to what they
> >>
> > should
> >

> >> be.... The OLD tube is drawing considerably more current than
the
> >>
> > NEW
> >
> >> one, indicating possible grid emission or gas problems.
> >>
> >> You don't mention, but you DID readjust the Bias adjustment
> >>
> > (Section
> >
> >> VII, L) in the manual with the NEW tube installed.....??
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> OK Garey - Here is what I got.
> >>> I replaced R4,R1,R2, and C15. R4 measured 2.1m - R1 4.2k - and
R2
> >>> 19k. I also checked the voltages before and after as you
> >>>
> > suggested.
> >
> >>> Old 12BZ6 Before After
> >>> Pin1 - 2.63v 2.70
> >>> Pin2 - 3.40v 3.64v
> >>> Pin5 - 129v 130v
> >>> Pin6 - 112v 122v
> >>>
> >>> NOS 12BZ6 Before After
> >>> Pin1 - 1.43v 1.45v
> >>> Pin2 - 1.71v 1.80v
> >>> Pin5 - 139v 150v
> >>> Pin6 - 122v 131v
> >>> I agree the NOS tube checks better, but it does not work. You
> >>>
> > plug it
> >
> >>> in and the S-meter goes to S7 and stays there. Just about the
> >>>
> > same as
> >
> >>> pulling out the tube results. But the old Tube works !!!!
> >>> I don't get it or know what to check next. Any ideas>
> >>> 73
> >>> WINK

> >>>
> >>>
> >>>> Wink -
> >>>>
> >>>> OK. Pins 2 and 5 look to be ok.
> >>>>
> >>>> There may be a problem on the AVC line. I wonder about C15, a
> >>>>
> >>>>
> >>> leaky cap
> >>>
> >>>
> >>>> could be a problem here.
> >>>>
> >>>> The resistance of R4 is suspect, but typically high value
> >>>>
> > resistors
> >
> >>>>
> >>>>
> >>> go
> >>>
> >>>
> >>>> UP in value rather than down.
> >>>>
> >>>> Voltage checks should show:
> >>>>
> >>>> 1 - -1.1V
> >>>> 2 - 1.66V
> >>>>
> >>>> 5 - 153V
> >>>> 6 - 129V
> >>>>
> >>>> Be sure RF GAIN control is full CW and AVC Slow is selected.
> >>>>
>

1784. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 19:36:45 UTC
From: Garey Barrell
Topic: 1744 Message: 1784

Wink -

OK. Let's be sure we're saying the same thing......

You put in a "new" 12BZ6.

You pulled out V9 and laid it on the table. You adjusted the Zero pot on the back, and then tuned in the Calibrator at 3.8 MHz and adjusting S-Meter Cal only up to S-5 instead of S-9 + 20. Turning the RF GAIN control full CCW, the S-Meter went up to... ?.

Then you subbed new tubes for V4 and V5, leaving V9 on the table. Then adjusted the Zero and RF GAIN as above and still the S-Meter wouldn't go above S-5.

Garey - K4OAH

tnham63 wrote:
> Ok Garey -- I tried all three, no change. Pulling V9 - Replaced V4
> And V5 -- No change. Old tube still working..
> Any tips?
> Thanks
> WINK
> WA8KOQ
>
>> Wink -
>>
>> OK, I think we have more than one problem. The fact that your are
>> unable to correctly set the S-Meter adjustments with a "new" tube
>>
> in V1
>
>> tells me that there is something wrong elsewhere.
>>
>> First try pulling V9 and see if the S-Meter can be adjusted
>>
> properly
>
>> with a "new" tube at V1.
>>
>> If that doesn't work, try subbing V4 and V5, again with a "new"
>>
> tube in
>
>> V1, to see if replacing one or both of them affects your ability to
>>

> set
>
>> the S-meter.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
>>
>> tnham63 wrote:
>>
>>> Garey- When I go through that Bias setting, I can only get S-5
>>>
> max S-
>
>>> meter reading on the new tube.. With the old tube 20DB S meter
>>> reading as required.
>>> Just no gain there....
>>>
>>> Wink
>>>

1785. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-06 23:09:26 UTC
From: Garey Barrell
Topic: 1744 Message: 1785

Wink -

What is the voltage at TP-2, top of chassis, just in front of passband tuner. Should be -1.35 V with no antenna, no signal.

Garey - K4OAH

tnham63 wrote:
> Ok Garey -- I tried all three, no change. Pulling V9 - Replaced V4
> And V5 -- No change. Old tube still working..
> Any tips?
> Thanks
> WINK
> WA8KOQ
>
>> Wink -
>>
>> OK, I think we have more than one problem. The fact that your are
>> unable to correctly set the S-Meter adjustments with a "new" tube
>>
> in V1
>
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>> First try pulling V9 and see if the S-Meter can be adjusted
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>> with a "new" tube at V1.
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>> If that doesn't work, try subbing V4 and V5, again with a "new"
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> set
>
>> the S-meter.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
>>
>> tnham63 wrote:

>>
>>> Garey- When I go through that Bias setting, I can only get S-5
>>>
> max S-
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>>> meter reading on the new tube.. With the old tube 20DB S meter
>>> reading as required.
>>> Just no gain there....
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>>> Wink
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>>>> Wink -
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>>>> Well the voltages with the NEW tube are much closer to what they
>>>>
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>>> should
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>>>> be.... The OLD tube is drawing considerably more current than
>>>>
> the
>
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>>>>
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>>>
>>>> one, indicating possible grid emission or gas problems.
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>>>> You don't mention, but you DID readjust the Bias adjustment
>>>>
>>>>
>>> (Section
>>>
>>>
>>>> VII, L) in the manual with the NEW tube installed.....??
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>>
>

1786. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 14:33:12 UTC
From: tnham63
Topic: 1744 Message: 1786

Garey - That is correct. Thatis what I did.
I will check the TP2 voltage later today.
Thanks...
Wink
>
> Wink -
>
> OK. Let's be sure we're saying the same thing......
>
> You put in a "new" 12BZ6.
>
> You pulled out V9 and laid it on the table. You adjusted the Zero
pot
> on the back, and then tuned in the Calibrator at 3.8 MHz and
adjusting
> S-Meter Cal only up to S-5 instead of S-9 + 20. Turning the RF
GAIN
> control full CCW, the S-Meter went up to... ?.
>
> Then you subbed new tubes for V4 and V5, leaving V9 on the table.
Then
> adjusted the Zero and RF GAIN as above and still the S-Meter
wouldn't go
> above S-5.
>
> Garey - K4OAH
>
>
>
>
> tnham63 wrote:
> > Ok Garey -- I tried all three, no change. Pulling V9 - Replaced
V4
> > And V5 -- No change. Old tube still working..
> > Any tips?
> > Thanks
> > WINK
> > WA8KOQ
> >
> >> Wink -
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> >> OK, I think we have more than one problem. The fact that your
are
> >> unable to correctly set the S-Meter adjustments with a "new"
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> > in V1
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> >> First try pulling V9 and see if the S-Meter can be adjusted
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> >> with a "new" tube at V1.
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> >> If that doesn't work, try subbing V4 and V5, again with a "new"
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> > set
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> >> the S-meter.
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> >> 73, Garey - K4OAH
> >> Glen Allen, VA
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> >> tnham63 wrote:
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> >>> Garey- When I go through that Bias setting, I can only get S-5
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> >>> meter reading on the new tube.. With the old tube 20DB S meter
> >>> reading as required.
> >>> Just no gain there....
> >>>
> >>> Wink
> >>>
>

1787. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 19:13:00 UTC
From: tnham63
Topic: 1744 Message: 1787

--- Garey -- Voltage at TP2 is -.54V No antenna no signal.

Wink...
>
> Wink -
>
> What is the voltage at TP-2, top of chassis, just in front of
passband
> tuner. Should be -1.35 V with no antenna, no signal.
>
> Garey - K4OAH
>
>
>
> tnham63 wrote:
> > Ok Garey -- I tried all three, no change. Pulling V9 - Replaced
V4
> > And V5 -- No change. Old tube still working..
> > Any tips?
> > Thanks
> > WINK
> > WA8KOQ
> >
> >> Wink -
> >>
> >> OK, I think we have more than one problem. The fact that your
are
> >> unable to correctly set the S-Meter adjustments with a "new"
tube
> >>
> > in V1
> >
> >> tells me that there is something wrong elsewhere.
> >>
> >> First try pulling V9 and see if the S-Meter can be adjusted
> >>
> > properly
> >
> >> with a "new" tube at V1.
> >>
> >> If that doesn't work, try subbing V4 and V5, again with a "new"
> >>
> > tube in
> >
> >> V1, to see if replacing one or both of them affects your ability

to
> >>
> > set
> >
> >> the S-meter.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> Garey- When I go through that Bias setting, I can only get S-5
> >>>
> > max S-
> >
> >>> meter reading on the new tube.. With the old tube 20DB S meter
> >>> reading as required.
> >>> Just no gain there....
> >>>
> >>> Wink
> >>>
> >>>
> >>>
> >>>> Wink -
> >>>>
> >>>> Well the voltages with the NEW tube are much closer to what
they
> >>>>
> >>>>
> >>> should
> >>>
> >>>
> >>>> be.... The OLD tube is drawing considerably more current than
> >>>>
> > the
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> >>>>
> >>>>
> >>> NEW
> >>>
> >>>
> >>>> one, indicating possible grid emission or gas problems.
> >>>>
> >>>> You don't mention, but you DID readjust the Bias adjustment
> >>>>
> >>>>
> >>> (Section
> >>>

> >>>
> >>>> VII, L) in the manual with the NEW tube installed.....??
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>>
> >
>

1788. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 19:21:16 UTC
From: Garey Barrell
Topic: 1744 Message: 1788

OK. With V1 out, see if you can set it to -1.35V with the RCVR SENS
(R87) control, near center-line of underchassis towards front panel.
Then reset S-Meter ZERO and S-Meter SENS.

Then try setting ZERO to max. Should be able to reach S-6 to S-8.

tnham63 wrote:
> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
>
> Wink...
>
>> Wink -
>>
>> What is the voltage at TP-2, top of chassis, just in front of
>>
> passband
>
>> tuner. Should be -1.35 V with no antenna, no signal.
>>
>> Garey - K4OAH
>>
>>
>>
>> tnham63 wrote:
>>
>>> Ok Garey -- I tried all three, no change. Pulling V9 - Replaced
>>>
> V4
>
>>> And V5 -- No change. Old tube still working..
>>> Any tips?
>>> Thanks
>>> WINK
>>> WA8KOQ
>>>
>>>
>>>> Wink -
>>>>
>>>> OK, I think we have more than one problem. The fact that your
>>>>
> are
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>>>> unable to correctly set the S-Meter adjustments with a "new"
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> tube

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>>>> First try pulling V9 and see if the S-Meter can be adjusted
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>>>>
>>> properly
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>>>
>>>> with a "new" tube at V1.
>>>>
>>>> If that doesn't work, try subbing V4 and V5, again with a "new"
>>>>
>>>>
>>> tube in
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>>>> V1, to see if replacing one or both of them affects your ability
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>>>> the S-meter.
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>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
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>>>> tnham63 wrote:
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>>>>> Garey- When I go through that Bias setting, I can only get S-5
>>>>>
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>>> max S-
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>>>>> meter reading on the new tube.. With the old tube 20DB S meter
>>>>> reading as required.
>>>>> Just no gain there....

>>>>>
>>>>> Wink
>>>>>
>>>>>
>>>>>
>>>>>
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>>>>>> Well the voltages with the NEW tube are much closer to what
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>>>>> NEW
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>>>>>> one, indicating possible grid emission or gas problems.
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>>>>>> You don't mention, but you DID readjust the Bias adjustment
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>>>>>> 73, Garey - K4OAH
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>

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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
> --
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date: 02/04/09 08:24:00
>
>

1789. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 19:43:04 UTC
From: tnham63
Topic: 1744 Message: 1789

Garey , Sorry , I forgot I had the OLD tube in there. With NEW tube
it measures -1.66V

Wink

> OK. With V1 out, see if you can set it to -1.35V with the RCVR
SENS
> (R87) control, near center-line of underchassis towards front
panel.
> Then reset S-Meter ZERO and S-Meter SENS.
>
> Then try setting ZERO to max. Should be able to reach S-6 to S-8.
>
>
> tnham63 wrote:
> > --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
> >
> > Wink...
> >
> >> Wink -
> >>
> >> What is the voltage at TP-2, top of chassis, just in front of
> >>
> > passband
> >
> >> tuner. Should be -1.35 V with no antenna, no signal.
> >>
> >> Garey - K4OAH
> >>
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> Ok Garey -- I tried all three, no change. Pulling V9 - Replaced
> >>>
> > V4
> >
> >>> And V5 -- No change. Old tube still working..
> >>> Any tips?
> >>> Thanks
> >>> WINK
> >>> WA8KOQ
> >>>
> >>>
> >>>> Wink -

> >>>>
> >>>> OK, I think we have more than one problem. The fact that your
> >>>>
> > are
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> >>>> unable to correctly set the S-Meter adjustments with a "new"
> >>>>
> > tube
> >
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> >>>>
> >>> in V1
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> >>>> tells me that there is something wrong elsewhere.
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> >>>> First try pulling V9 and see if the S-Meter can be adjusted
> >>>>
> >>>>
> >>> properly
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> >>>
> >>>> with a "new" tube at V1.
> >>>>
> >>>> If that doesn't work, try subbing V4 and V5, again with
a "new"
> >>>>
> >>>>
> >>> tube in
> >>>
> >>>
> >>>> V1, to see if replacing one or both of them affects your
ability
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> > to
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> >>>>
> >>>>
> >>> set
> >>>
> >>>
> >>>> the S-meter.
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>>
> >>>>
> >>>> tnham63 wrote:
> >>>>

> >>>>
> >>>>> Garey- When I go through that Bias setting, I can only get S-
5
> >>>>>
> >>>>>
> >>> max S-
> >>>
> >>>
> >>>>> meter reading on the new tube.. With the old tube 20DB S
meter
> >>>>> reading as required.
> >>>>> Just no gain there....
> >>>>>
> >>>>> Wink
> >>>>>
> >>>>>
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> >>>>>
> >>>>>> Wink -
> >>>>>>
> >>>>>> Well the voltages with the NEW tube are much closer to what
> >>>>>>
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> >>>>> should
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> >>>>>> one, indicating possible grid emission or gas problems.
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> >>>>>>
> >>>>> (Section
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> >>>>>
> >>>>>> VII, L) in the manual with the NEW tube installed.....??
> >>>>>>
> >>>>>> 73, Garey - K4OAH
> >>>>>> Glen Allen, VA
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> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
> > --

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date:
02/04/09 08:24:00
> >
> >
>

1790. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:05:57 UTC
From: Garey Barrell
Topic: 1744 Message: 1790

OK. Set it to -1.35 with a NEW tube. Then try the adjustments below.

tnham63 wrote:
> Garey , Sorry , I forgot I had the OLD tube in there. With NEW tube
> it measures -1.66V
>
> Wink
>
>
>> OK. With V1 out, see if you can set it to -1.35V with the RCVR
>>
> SENS
>
>> (R87) control, near center-line of underchassis towards front
>>
> panel.
>
>> Then reset S-Meter ZERO and S-Meter SENS.
>>
>> Then try setting ZERO to max. Should be able to reach S-6 to S-8.
>>
>>
>> tnham63 wrote:
>>
>>> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
>>>
>>> Wink...
>>>
>>>
>>>> Wink -
>>>>
>>>> What is the voltage at TP-2, top of chassis, just in front of
>>>>
>>>>
>>> passband
>>>
>>>
>>>> tuner. Should be -1.35 V with no antenna, no signal.
>>>>
>>>> Garey - K4OAH
>>>>
>>>>
>>>>
>>>> tnham63 wrote:
>>>>

>>>>
>>>>> Ok Garey -- I tried all three, no change. Pulling V9 - Replaced
>>>>>
>>>>>
>>> V4
>>>
>>>
>>>>> And V5 -- No change. Old tube still working..
>>>>> Any tips?
>>>>> Thanks
>>>>> WINK
>>>>> WA8KOQ
>>>>>
>>>>>
>>>>>
>>>>>> Wink -
>>>>>>
>>>>>> OK, I think we have more than one problem. The fact that your
>>>>>>
>>>>>>
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>>>>>>> unable to correctly set the S-Meter adjustments with a "new"
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>>>>> in V1
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>>>>>>> First try pulling V9 and see if the S-Meter can be adjusted
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>>>>> properly
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>>>>>
>>>>>
>>>>>>> with a "new" tube at V1.
>>>>>>>
>>>>>>> If that doesn't work, try subbing V4 and V5, again with
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>>>>> tube in
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>>>>>> V1, to see if replacing one or both of them affects your
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>>>>> set
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>>>>>
>>>>>
>>>>>> the S-meter.
>>>>>>
>>>>>> 73, Garey - K4OAH
>>>>>> Glen Allen, VA
>>>>>>
>>>>>>
>>>>>>
>>>>>> tnham63 wrote:
>>>>>>
>>>>>>
>>>>>>
>>>>>>> Garey- When I go through that Bias setting, I can only get S-
>>>>>>>
> 5
>
>>>>>>>
>>>>>>>
>>>>>>>
>>>>> max S-
>>>>>
>>>>>
>>>>>
>>>>>>> meter reading on the new tube.. With the old tube 20DB S
>>>>>>>
> meter

>
>>>>>>> reading as required.
>>>>>>> Just no gain there....
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>>>>>>> Wink
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>>>>>>>> Wink -
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>>> No virus found in this incoming message.
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>
>

1791. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:13:07 UTC
From: tnham63
Topic: 1744 Message: 1791

OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set Zero to max and got S-7. Tried Bias setting but can only get S-9 instead of 20DB over.

Wink
>
> OK. Set it to -1.35 with a NEW tube. Then try the adjustments below.
>
>
> tnham63 wrote:
> > Garey , Sorry , I forgot I had the OLD tube in there. With NEW tube
> > it measures -1.66V
> >
> > Wink
> >
> >
> >> OK. With V1 out, see if you can set it to -1.35V with the RCVR
> >>
> > SENS
> >
> >> (R87) control, near center-line of underchassis towards front
> >>
> > panel.
> >
> >> Then reset S-Meter ZERO and S-Meter SENS.
> >>
> >> Then try setting ZERO to max. Should be able to reach S-6 to S-8.
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
> >>>
> >>> Wink...
> >>>
> >>>
> >>>> Wink -
> >>>>
> >>>> What is the voltage at TP-2, top of chassis, just in front of
> >>>>
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> >>> passband

> >>>
> >>>
> >>>> tuner. Should be -1.35 V with no antenna, no signal.
> >>>>
> >>>> Garey - K4OAH
> >>>>
> >>>>
> >>>>
> >>>> tnham63 wrote:
> >>>>
> >>>>
> >>>>> Ok Garey -- I tried all three, no change. Pulling V9 -
Replaced
> >>>>>
> >>>>>
> >>> V4
> >>>
> >>>
> >>>>> And V5 -- No change. Old tube still working..
> >>>>> Any tips?
> >>>>> Thanks
> >>>>> WINK
> >>>>> WA8KOQ
> >>>>>
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> >>>>>
> >>>>>> Wink -
> >>>>>>
> >>>>>> OK, I think we have more than one problem. The fact that
your
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> >>> are
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> >>>>>> unable to correctly set the S-Meter adjustments with a "new"
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> >>>>>>
> >>> tube
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> >>>>>>
> >>>> in V1
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> >>>>
> >>>>>> tells me that there is something wrong elsewhere.
> >>>>>>

> >>>>>> First try pulling V9 and see if the S-Meter can be adjusted
> >>>>>>
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> >>>>>>
> >>>>> properly
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> >>>>>> with a "new" tube at V1.
> >>>>>>
> >>>>>> If that doesn't work, try subbing V4 and V5, again with
> >>>>>>
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> >>>>> tube in
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> >>>>>
> >>>>>> V1, to see if replacing one or both of them affects your
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> >>>>>> tnham63 wrote:
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> >>>>>> Garey- When I go through that Bias setting, I can only get
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> >>>>>>>
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> >>>>> max S-
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> >>>>>>> meter reading on the new tube.. With the old tube 20DB S
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> >>>>>>>> one, indicating possible grid emission or gas problems.
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> >>>>>>>> 73, Garey - K4OAH
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> >>> Yahoo! Groups Links
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> >>> No virus found in this incoming message.
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02/04/09 08:24:00
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> >
>

1792. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:15:07 UTC
From: Garey Barrell
Topic: 1744 Message: 1792

Turn RF GAIN max CCW. What does S-Meter read?

tnham63 wrote:
> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set Zero to
> max and got S-7. Tried Bias setting but can only get S-9 instead of
> 20DB over.
>
> Wink
>
>> OK. Set it to -1.35 with a NEW tube. Then try the adjustments
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> below.
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>> tnham63 wrote:
>>
>>> Garey , Sorry , I forgot I had the OLD tube in there. With NEW
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>>> Wink
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>>>> OK. With V1 out, see if you can set it to -1.35V with the RCVR
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>>>
>>>
>>>> (R87) control, near center-line of underchassis towards front
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>>> panel.
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>>>> Then reset S-Meter ZERO and S-Meter SENS.
>>>>
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> 8.
>
>>>> tnham63 wrote:
>>>>

>>>>
>>>>> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
>>>>>
>>>>> Wink...
>>>>>
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>>>>>> Wink -
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>>>>>> What is the voltage at TP-2, top of chassis, just in front of
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> Replaced
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>>>
>>>>>>>>> reading as required.
>>>>>>>>> Just no gain there....
>>>>>>>>>
>>>>>>>>> Wink
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>>>>>>>>>> Wink -
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>>>>>>>>>> Well the voltages with the NEW tube are much closer to
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>>>>>>>>>> be.... The OLD tube is drawing considerably more current
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>>>>>>>>> NEW
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>>>>>>>>>> one, indicating possible grid emission or gas problems.
>>>>>>>>>>
>>>>>>>>>> You don't mention, but you DID readjust the Bias
>>>>>>>>>>
> adjustment
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>>>>>>>>> (Section
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>>>>>>>>>
>>>>>>>>>> VII, L) in the manual with the NEW tube installed.....??
>>>>>>>>>>
>>>>>>>>>> 73, Garey - K4OAH
>>>>>>>>>> Glen Allen, VA
>>>>>>>>>>
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>>>>> ------------------------------------
>>>>>
>>>>> Yahoo! Groups Links
>>>>>
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>>>>>
>>>>> --
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> --
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>>> ------
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>>>
>>>>> No virus found in this incoming message.
>>>>> Checked by AVG - www.avg.com
>>>>> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release
>>>>>
> Date:
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>>>>>
>>>>>
>>> 02/04/09 08:24:00
>>>
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>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
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>>> --
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> ------
>
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>>>
> 02/04/09 08:24:00
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> ------------------------------------
>
> Yahoo! Groups Links
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> --
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date: 02/04/09 08:24:00
>
>

1793. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:20:35 UTC
From: tnham63
Topic: 1744 Message: 1793

--- 60DB over .....
Wink
>
> Turn RF GAIN max CCW. What does S-Meter read?
>
>
> tnham63 wrote:
> > OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
Zero to
> > max and got S-7. Tried Bias setting but can only get S-9 instead
of
> > 20DB over.
> >
> > Wink
> >
> >> OK. Set it to -1.35 with a NEW tube. Then try the adjustments
> >>
> > below.
> >
> >> tnham63 wrote:
> >>
> >>> Garey , Sorry , I forgot I had the OLD tube in there. With NEW
> >>>
> > tube
> >
> >>> it measures -1.66V
> >>>
> >>> Wink
> >>>
> >>>
> >>>
> >>>> OK. With V1 out, see if you can set it to -1.35V with the
RCVR
> >>>>
> >>>>
> >>> SENS
> >>>
> >>>
> >>>> (R87) control, near center-line of underchassis towards front
> >>>>
> >>>>
> >>> panel.
> >>>
> >>>
> >>>> Then reset S-Meter ZERO and S-Meter SENS.

> >>>>
> >>>> Then try setting ZERO to max. Should be able to reach S-6 to
S-
> >>>>
> > 8.
> >
> >>>> tnham63 wrote:
> >>>>
> >>>>
> >>>>> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
> >>>>>
> >>>>> Wink...
> >>>>>
> >>>>>
> >>>>>
> >>>>>> Wink -
> >>>>>>
> >>>>>> What is the voltage at TP-2, top of chassis, just in front
of
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>> passband
> >>>>>
> >>>>>
> >>>>>
> >>>>>> tuner. Should be -1.35 V with no antenna, no signal.
> >>>>>>
> >>>>>> Garey - K4OAH
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>>> tnham63 wrote:
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>>>> Ok Garey -- I tried all three, no change. Pulling V9 -
> >>>>>>>
> > Replaced
> >
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>> V4
> >>>>>
> >>>>>
> >>>>>
> >>>>>> And V5 -- No change. Old tube still working..
> >>>>>> Any tips?
> >>>>>> Thanks

> >>>>>>> WINK
> >>>>>>> WA8KOQ
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>> Wink -
> >>>>>>>>
> >>>>>>>> OK, I think we have more than one problem. The fact that
> >>>>>>>>
> > your
> >
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>> are
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> >>>>>
> >>>>>
> >>>>>>>> unable to correctly set the S-Meter adjustments with
a "new"
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>> tube
> >>>>>
> >>>>>
> >>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>> in V1
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>> tells me that there is something wrong elsewhere.
> >>>>>>>>
> >>>>>>>> First try pulling V9 and see if the S-Meter can be
adjusted
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>> properly
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> >>>>>>>> with a "new" tube at V1.
> >>>>>>>>
> >>>>>>>> If that doesn't work, try subbing V4 and V5, again with
> >>>>>>>>
> >>>>>>>>
> >>> a "new"
> >>>
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> >>>>>>> tube in
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> >>>>>>>>> V1, to see if replacing one or both of them affects your
> >>>>>>>>>
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> >>>>>>> set
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> >>>>>>>
> >>>>>>>>> the S-meter.
> >>>>>>>>>
> >>>>>>>>> 73, Garey - K4OAH
> >>>>>>>>> Glen Allen, VA
> >>>>>>>>>
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> >>>>>>>>>
> >>>>>>>>> tnham63 wrote:
> >>>>>>>>>
> >>>>>>>>>
> >>>>>>>>>

> >>>>>>>>
> >>>>>>>>> Garey- When I go through that Bias setting, I can only
get
> >>>>>>>>>
> > S-
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> >>> 5
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> >>>>>>> max S-
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> >>>>>>>
> >>>>>>>>> meter reading on the new tube.. With the old tube 20DB S
> >>>>>>>>>
> >>>>>>>>>
> >>> meter
> >>>
> >>>
> >>>>>>>>> reading as required.
> >>>>>>>>> Just no gain there....
> >>>>>>>>>
> >>>>>>>>> Wink
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> >>>>>>>>>
> >>>>>>>>>> Wink -
> >>>>>>>>>>
> >>>>>>>>>> Well the voltages with the NEW tube are much closer to
> >>>>>>>>>>
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> >>>>>>>>>> NEW
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> >>>>>>>>>>
> >>>>>>>>>> one, indicating possible grid emission or gas problems.
> >>>>>>>>>>
> >>>>>>>>>> You don't mention, but you DID readjust the Bias
> >>>>>>>>>>
> > adjustment
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> >>>>>>>>>>
> >>>>>>>>>> (Section
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> >>>>>>>>>
> >>>>>>>>>> VII, L) in the manual with the NEW tube installed.....??
> >>>>>>>>>>
> >>>>>>>>>> 73, Garey - K4OAH
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> >>>>>
> >>>>> Yahoo! Groups Links
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> >>>>>
> >>> ------
> >>>
> >>>
> >>>>> No virus found in this incoming message.
> >>>>> Checked by AVG - www.avg.com
> >>>>> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release
> >>>>>
> > Date:
> >
> >>>>>
> >>>>>
> >>> 02/04/09 08:24:00
> >>>
> >>>
> >>>>>
> >>>>>
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>

> >>> ----------
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> >>>
> > ------
> >
> >>> No virus found in this incoming message.
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> >>> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release
Date:
> >>>
> > 02/04/09 08:24:00
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> > Yahoo! Groups Links
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> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date:
02/04/09 08:24:00
> >
> >
>

1794. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:26:15 UTC
From: tnham63
Topic: 1744 Message: 1794

60DB OVER ..

<k4oah@...> wrote:
>
> Turn RF GAIN max CCW. What does S-Meter read?
>
>
> tnham63 wrote:
> > OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
Zero to
> > max and got S-7. Tried Bias setting but can only get S-9 instead
of
> > 20DB over.
> >
> > Wink
> >
> >> OK. Set it to -1.35 with a NEW tube. Then try the adjustments
> >>
> > below.
> >
> >> tnham63 wrote:
> >>
> >>> Garey , Sorry , I forgot I had the OLD tube in there. With NEW
> >>>
> > tube
> >
> >>> it measures -1.66V
> >>>
> >>> Wink
> >>>
> >>>
> >>>
> >>>> OK. With V1 out, see if you can set it to -1.35V with the
RCVR
> >>>>
> >>>>
> >>> SENS
> >>>
> >>>
> >>>> (R87) control, near center-line of underchassis towards front
> >>>>
> >>>>
> >>> panel.
> >>>
> >>>

> >>>> Then reset S-Meter ZERO and S-Meter SENS.
> >>>>
> >>>> Then try setting ZERO to max. Should be able to reach S-6 to
S-
> >>>>
> > 8.
> >
> >>>> tnham63 wrote:
> >>>>
> >>>>
> >>>>> --- Garey -- Voltage at TP2 is -.54V No antenna no signal.
> >>>>>
> >>>>> Wink...
> >>>>>
> >>>>>
> >>>>>
> >>>>>> Wink -
> >>>>>>
> >>>>>> What is the voltage at TP-2, top of chassis, just in front
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> >>>>>>
> >>>>>>
> >>>>>>
> >>>>> passband
> >>>>>
> >>>>>
> >>>>>
> >>>>>> tuner. Should be -1.35 V with no antenna, no signal.
> >>>>>>
> >>>>>> Garey - K4OAH
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>>> tnham63 wrote:
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>>>> Ok Garey -- I tried all three, no change. Pulling V9 -
> >>>>>>>
> > Replaced
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> >>>>> V4
> >>>>>
> >>>>>
> >>>>>
> >>>>> And V5 -- No change. Old tube still working..
> >>>>> Any tips?

> >>>>>>> Thanks
> >>>>>>> WINK
> >>>>>>> WA8KOQ
> >>>>>>>
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> >>>>>>>>> Wink -
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> >>>>>>>>> OK, I think we have more than one problem. The fact that
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> >>>>>>>>> tells me that there is something wrong elsewhere.
> >>>>>>>>>
> >>>>>>>>> First try pulling V9 and see if the S-Meter can be
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> >>>>>>>> with a "new" tube at V1.
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> >>>>>>>> If that doesn't work, try subbing V4 and V5, again with
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> >>>>>>> tube in
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> >>>>>>>> V1, to see if replacing one or both of them affects your
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> >>>>>>>> the S-meter.
> >>>>>>>>
> >>>>>>>> 73, Garey - K4OAH
> >>>>>>>> Glen Allen, VA
> >>>>>>>>
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> >>>>>>>> tnham63 wrote:
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> >>>>>>>>
> >>>>>>>>
> >>>>>>>>> Garey- When I go through that Bias setting, I can only
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> >>>>>>>>> meter reading on the new tube.. With the old tube 20DB S
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> >>> meter
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> >>>
> >>>>>>>>> reading as required.
> >>>>>>>>> Just no gain there....
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> >>>>>>>>> Wink
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> >>>>>>>>>> Wink -
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> >>>>>>>>>> Well the voltages with the NEW tube are much closer to
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> >>>>>>>>>> be.... The OLD tube is drawing considerably more
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> >>>>>>>>>> NEW
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> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>> one, indicating possible grid emission or gas problems.
> >>>>>>>>>>
> >>>>>>>>>> You don't mention, but you DID readjust the Bias
> >>>>>>>>>>
> > adjustment
> >
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>> (Section

> >>>>>>>>>
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> >>>>>>>>>
> >>>>>>>>>
> >>>>>>>>>> VII, L) in the manual with the NEW tube installed.....??
> >>>>>>>>>>
> >>>>>>>>>> 73, Garey - K4OAH
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> >>>>>>>>>>
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> >>>>>>>>>>
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> >>>>>
> >>>>> Yahoo! Groups Links
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> >>>>>
> >>> ------
> >>>
> >>>
> >>>>> No virus found in this incoming message.
> >>>>> Checked by AVG - www.avg.com
> >>>>> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release
> >>>>>
> > Date:
> >
> >>>>>
> >>>>>
> >>> 02/04/09 08:24:00
> >>>
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> >>>>>
> >>>>>
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> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>

> >>>
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> >>>
> > ------
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> >>> No virus found in this incoming message.
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Date:
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> >
> > Yahoo! Groups Links
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> > ----------

> >
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> > Checked by AVG - www.avg.com
> > Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date:
02/04/09 08:24:00
> >
> >
>

1795. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:45:03 UTC
From: Garey Barrell
Topic: 1744 Message: 1795

OK... Sounds to me like it's working correctly. How does it sound
with an antenna?

tnham63 wrote:
> 60DB OVER ..
>
> <k4oah@...> wrote:
>
>> Turn RF GAIN max CCW. What does S-Meter read?
>>
>>
>> tnham63 wrote:
>>
>>> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
>>>
> Zero to
>
>>> max and got S-7. Tried Bias setting but can only get S-9 instead
>>>
> of
>
>>> 20DB over.
>>>
>>> Wink
>>>
>>>
>>>> OK. Set it to -1.35 with a NEW tube. Then try the adjustments
>>>>
>>>>
>>> below.
>>>
>>>
>>>> tnham63 wrote:
>>>>
>>>>
>>>>> Garey , Sorry , I forgot I had the OLD tube in there. With NEW
>>>>>
>>>>>
>>> tube
>>>
>>>
>>>>> it measures -1.66V
>>>>>
>>>>> Wink
>>>>>

1796. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 20:49:31 UTC
From: tnham63
Topic: 1744 Message: 1796

Weak compared to the old tube. Just no real S-meter readings
and sigs weak....
Wink

In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> OK... Sounds to me like it's working correctly. How does it
sound
> with an antenna?
>
>
> tnham63 wrote:
> > 60DB OVER ..
> >
> > <k4oah@> wrote:
> >
> >> Turn RF GAIN max CCW. What does S-Meter read?
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
> >>>
> > Zero to
> >
> >>> max and got S-7. Tried Bias setting but can only get S-9
instead
> >>>
> > of
> >
> >>> 20DB over.
> >>>
> >>> Wink
> >>>
> >>>
> >>>> OK. Set it to -1.35 with a NEW tube. Then try the
adjustments
> >>>>
> >>>>
> >>> below.
> >>>
> >>>
> >>>> tnham63 wrote:
> >>>>
> >>>>

> >>>>> Garey , Sorry , I forgot I had the OLD tube in there. With
NEW
> >>>>>
> >>>>>
> >>> tube
> >>>
> >>>
> >>>>> it measures -1.66V
> >>>>>
> >>>>> Wink
> >>>>>
>

1797. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 21:02:24 UTC
From: Garey Barrell
Topic: 1744 Message: 1797

From the measurements you made this morning, it sounds like the OLD
tube is gassy, and dragging down the AVC voltage, thus increasing the
gain of the receiver. Which makes it "sound" hot and big S-meter readings.

How does it compare to another receiver on the same antenna? How do
signals compare between the two, disregarding the S-Meter readings?

tnham63 wrote:
> Weak compared to the old tube. Just no real S-meter readings
> and sigs weak....
> Wink
>
>
>
> In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> OK... Sounds to me like it's working correctly. How does it
>>
> sound
>
>> with an antenna?
>>
>>
>> tnham63 wrote:
>>
>>> 60DB OVER ..
>>>
>>> <k4oah@> wrote:
>>>
>>>
>>>> Turn RF GAIN max CCW. What does S-Meter read?
>>>>
>>>>
>>>> tnham63 wrote:
>>>>
>>>>
>>>>> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
>>>>>
>>>>>
>>> Zero to
>>>
>>>
>>>>> max and got S-7.

1798. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 21:07:21 UTC
From: tnham63
Topic: 1744 Message: 1798

I've compared it to my FT-857D and it is very weak. I can't even get an S meter reading from the SPOT signal on my T-4XC sitting right next to it. With the old tube sigs are comparable to the 857D, just lowere noies level readings on the R-4.
Wink

wrote:
>
> From the measurements you made this morning, it sounds like the OLD
> tube is gassy, and dragging down the AVC voltage, thus increasing the
> gain of the receiver. Which makes it "sound" hot and big S-meter readings.
>
> How does it compare to another receiver on the same antenna? How do
> _signals_ compare between the two, disregarding the S-Meter readings?
>
>
> tnham63 wrote:
> > Weak compared to the old tube. Just no real S-meter readings
> > and sigs weak....
> > Wink
> >
> >
> >
> > In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >> OK... Sounds to me like it's working correctly. How does it
> >>
> > sound
> >
> >> with an antenna?
> >>
> >>
> >> tnham63 wrote:
> >>
> >>> 60DB OVER ..
> >>>
> >>> <k4oah@> wrote:
> >>>
> >>>
> >>>> Turn RF GAIN max CCW. What does S-Meter read?

> >>>>
> >>>>
> >>>> tnham63 wrote:
> >>>>
> >>>>
> >>>>> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
> >>>>>
> >>>>>
> >>>>>> Zero to
> >>>>>
> >>>>>
> >>>>>> max and got S-7.
>

1799. Re: [DrakeRadio] Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 21:18:37 UTC
From: Garey Barrell
Topic: 1744 Message: 1799

Wink -

Well, I dunno..... I still think the OLD tube is masking what the
"real" problem is, but I'm out of ideas for what it might be.

We did determine early on that the OLD tube is a 12BZ6, and that the
socket really has 12.6 VAC on it. I sure liked the idea that the socket
was rewired for 6 V..... :-) Too bad that's NOT the problem.

The only thing I know to do is to measure PTO and PreMixer levels and
the stage gains for the RF/IF stages and see where it's getting lost.

Maybe someone else has an idea? SPEAK UP!! :-)

Garey - K4OAH

tnham63 wrote:
> I've compared it to my FT-857D and it is very weak. I can't even get
> an S meter reading from the SPOT signal on my T-4XC sitting right
> next to it. With the old tube sigs are comparable to the 857D, just
> lowere noies level readings on the R-4.
> Wink
>
>
> wrote:
>
>> From the measurements you made this morning, it sounds like the
>>
> OLD
>
>> tube is gassy, and dragging down the AVC voltage, thus increasing
>>
> the
>
>> gain of the receiver. Which makes it "sound" hot and big S-meter
>>
> readings.
>
>> How does it compare to another receiver on the same antenna? How
>>
> do
>
>> _signals_ compare between the two, disregarding the S-Meter
>>
> readings?
>

>> tnham63 wrote:
>>
>>> Weak compared to the old tube. Just no real S-meter readings
>>> and sigs weak....
>>> Wink
>>>
>>>
>>>
>>> In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
>>>
>>>
>>>> OK... Sounds to me like it's working correctly. How does it
>>>>
>>>>
>>> sound
>>>
>>>
>>>> with an antenna?
>>>>
>>>>
>>>> tnham63 wrote:
>>>>
>>>>
>>>>> 60DB OVER ..
>>>>>
>>>>> <k4oah@> wrote:
>>>>>
>>>>>
>>>>>
>>>>>> Turn RF GAIN max CCW. What does S-Meter read?
>>>>>>
>>>>>>
>>>>>> tnham63 wrote:
>>>>>>
>>>>>>
>>>>>>
>>>>>>> OK Garey - Set it to -1.35V, reset S-meter ZERO and Sens. Set
>>>>>>>
>>>>>>>
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>>>>> Zero to
>>>>>
>>>>>
>>>>>
>>>>>> max and got S-7.
>>>>>>
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>>>

> ------------------------------------
>
> Yahoo! Groups Links
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> --
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date: 02/04/09 08:24:00
>
>

1800. Re: R-4 - 12BZ6 PROBLEM/ UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 21:42:01 UTC
From: tnham63
Topic: 1744 Message: 1800

Well I just triple checked and Yes it is a 12BZ6 and Yes, there is 12.6 VAC on it. I just did a quick check on an S9 sig on 80M, pulled old tube and put new one in , and No S-Meter reading and he was much weaker.Guess I'll just run the R-4 till the gassy tube gives up and then go back to my 2-B. Keep me in mind if you come up with any ideas as problem continues to baffle me also. Thanks for all your help
Garey.
73
WINK

wrote:
>
> Wink -
>
> Well, I dunno..... I still think the OLD tube is masking what the
> "real" problem is, but I'm out of ideas for what it might be.
>
> We did determine early on that the OLD tube is a 12BZ6, and that
the
> socket really has 12.6 VAC on it. I sure liked the idea that the
socket
> was rewired for 6 V..... :-) Too bad that's NOT the problem.
>
> The only thing I know to do is to measure PTO and PreMixer levels
and
> the stage gains for the RF/IF stages and see where it's getting
lost.
>
> Maybe someone else has an idea? SPEAK UP!! :-)
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> Garey - K4OAH
>
>
>
> tnham63 wrote:
> > I've compared it to my FT-857D and it is very weak. I can't even
get
> > an S meter reading from the SPOT signal on my T-4XC sitting right
> > next to it. With the old tube sigs are comparable to the 857D,
just
> > lowere noies level readings on the R-4.
> > Wink
> >
> >
> > wrote:

> >
> >> From the measurements you made this morning, it sounds like the
> >>
> > OLD
> >
> >> tube is gassy, and dragging down the AVC voltage, thus
increasing
> >>
> > the
> >
> >> gain of the receiver. Which makes it "sound" hot and big S-
meter
> >>
> > readings.
> >
> >> How does it compare to another receiver on the same antenna?
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> >>
> > do
> >
> >> _signals_ compare between the two, disregarding the S-Meter
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> >>>> tnham63 wrote:
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> >>>>>
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> >>>>>>> max and got S-7.
> >>>>>>>
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> >
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> >
> > Yahoo! Groups Links
> >
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> > Version: 8.0.233 / Virus Database: 270.10.19/1938 - Release Date:
02/04/09 08:24:00
> >
> >
>

1801. Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-07 23:32:40 UTC
From: Jim Gerke
Topic: 1801 Message: 1801

I have an MS-4 with a speaker that is no good and needs to be replaced.

Any suggestions on where others have found an acceptable replacement
would be appreciated.

Thanks in advance.

73, Jim K5JG

1802. Re: [DrakeRadio] Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 02:04:44 UTC
From: Michael Shelly
Topic: 1801 Message: 1802

You can try these sites. They may have somthing close or from a collins
http://www.radiodaze.com/ http://www.surplussales.com

Mike

--- On Sat, 2/7/09, Jim Gerke <Jim.Gerke@...> wrote:

From: Jim Gerke <Jim.Gerke@...>
Subject: [DrakeRadio] Replacement Speaker
To: DrakeRadio@yahoogroups.com
Date: Saturday, February 7, 2009, 6:32 PM

I have an MS-4 with a speaker that is no good and needs to be replaced.

Any suggestions on where others have found an acceptable replacement
would be appreciated.

Thanks in advance.

73, Jim K5JG

[Non-text portions of this message have been removed]

1803. Re: [DrakeRadio] Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 03:44:17 UTC
From: DALE PARFITT
Topic: 1801 Message: 1803

I have a spare MS-4 speaker- contact me off line.

Dale W4OP

1804. Re: [DrakeRadio] Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 05:22:46 UTC
From: Jim Gerke
Topic: 1801 Message: 1804

Thanks, Dale, but I've already found one.

I appreciate your response.

73, Jim K5JG

DALE PARFITT wrote:
> I have a spare MS-4 speaker- contact me off line.
>
> Dale W4OP
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

1805. Re: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 05:38:28 UTC
From: Jim Gerke
Topic: 1801 Message: 1805

Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker for my MS-4.

Thank you, Al, and all the other folks who tried to help.

73, Jim K5JG

1806. Re: [DrakeRadio] collins s meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 16:04:57 UTC
From: Michael Shelly
Topic: 1775 Message: 1806

Your right about that. The meter works for the most part would hate to brake it. THANKS!!

Mike

--- On Thu, 2/5/09, Don <drfrasher@...> wrote:

From: Don <drfrasher@...>
Subject: Re: [DrakeRadio] collins s meter
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 5, 2009, 8:17 PM

I would say to pratice on a couple of cheap meters first so you can learn how delicate they can be.
I would hate to see you accidently ruin an original meter.

----- Original Message -----
From: Michael Shelly
To: DrakeRadio@yahoogro ups.com
Sent: Thursday, February 05, 2009 11:27 AM
Subject: RE: [DrakeRadio] collins s meter

Many thnaks! Problem is very simular or same so will check that site out. It may apply in this case. Again THANKS. I also have a KWM-2 very nice and was the radio of my dreams for a long time. Only took 42 years to get one.

Mike

--- On Thu, 2/5/09, Jose V. Gavila <eb5agv@amsat. org> wrote:

From: Jose V. Gavila <eb5agv@amsat. org>
Subject: RE: [DrakeRadio] collins s meter
To: DrakeRadio@yahoogro ups.com
Date: Thursday, February 5, 2009, 5:58 AM

Hello Mike,

>I havn't gotton a responce from from the Collins group on this so I
>figure I'd try the Drake group.
>
>I figure where there is a Drake can't be a Collins too far away.

Yes... at least in my case: I own a nice S-line and a KWM-2A :-)

>I have a 75S-1 Receiver. The S meter is in very good shape but has a
>issue with the mechanical Zero and it sticks near Zero when no
>voltage is applied. Otherwise works well. But being anal have to fix
>it.
>

>I e-mailed Simpson who manufactured the meter back in the day and
>they won't look at it.
>
>So the question is, Anyone know who can fix a meter movement. Or give
>me some pointers on how to clean and adjust it mayself. Been looking
>on e-bay for a replacement. Anyone know of one for sale at a
>resonable price?

Well, I can provide my recent experience fixing a meter movement in a 'new' (I got it with the promise it was 'new in box, perfectly working') Diamond SX-200 power/SWR meter. It had a bad habit: zero was not always at same point!. I could not understand it: it indicated power fine and repetitively in all power scales. But then, when neddle needed to go back to zero, most of the times it rested at another (higher) position, and not always the same. Tapping the meter got it back to the 'real' zero. I thought there was some friction which prevented movement... but, when I got the meter out, I found that it was really in pseudo-stable position when it was not at real zero!. I mean, if I tried to move the neddle to zero, manually (just slightly touching the neddle), it went back to the wrong resting position!

I was puzzled as there was no obvious mechanical trouble I could see... until I searched for D'Arsonval movement and ended, among other places, here:

http://www.engineer sedge.com/ instrumentation/ electrical_ meters_measureme nt/darso nval_movement. htm

As you can see, there are TWO control springs, one in the upper side (the one I saw and was perfect) AND another in the lower side. Even if I could not see it, I knew problem was there!. So I carefully dismantled meter (piece of cake :-( )... and, yes, there was a problem there: lower spiral was uncorrectly routed (probably from factory) so it was overlapped at one point. VERY carefully, I got it back where it should be, spiral was free again, and movement was fully restored.

Well, perhaps this has nothing to do with your problem but it could be somewhat related, as any minuscule metallic debris could have been stuck in the strong permanent magnet. Important thing here is that meter is a delicate thing and any small mechanical problem means a bad working unit.

Best regards,

JOSE

---------- --------- --------- --------- --------- -
73 EB5AGV - JOSE V. GAVILA
IM99sm La Canyada - Valencia (SPAIN)

Vintage Radio and Test Equipment
http://jvgavila. com
RadioRepair BLOG
http://radiorepair. blogspot. com/
European Boatanchors List

http://groups. yahoo.com/ group/euro_ ba_swap
Amateur Repairs List
http://groups. yahoo.com/ group/amateur- repairs

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1807. R4B Insensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-08 19:46:08 UTC
From: k8aja
Topic: 1807 Message: 1807

I recently traded for a Drake R4B and T4X from a good friend and am having difficulty with the receiver. The R4B is very insensitive. It takes about a 0.7 Volt (yes, I really mean volts) signal to get an S-5 on the S-meter. I have checked all the tubes and they appear to be OK. I was going to start the alignment procedure, but surely it can't be that far off. I have heard there are some "usual suspects" of capacitors between stages.

R4B serial number is 8278R. Any help to get me started would be appreciated.

For the voltage at TP-2, I get -1.38 vdc.

I took the voltage readings on all the tubes. The Drake Manual number and my numbers are in the attached spreadsheet. I see some definite differences. I can e-mail the Excel Spreadsheet. I highlighted the outliers in red.

I did have to use a digital multimeter. I have to recalibrate my VTVM.

1808. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-09 04:24:14 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1808

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1809. Re: [DrakeRadio] Re: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 07:29:49 UTC
From: Les Zwiebel WB6ORZ
Topic: 1801 Message: 1809

Say, Jim...where did you find the replacement speaker?
Thanks in advance.
Les
----- Original Message -----
From: Jim Gerke
To: DrakeRadio@yahoogroups.com
Sent: Saturday, February 07, 2009 9:38 PM
Subject: [DrakeRadio] Re: Replacement Speaker

Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker
for my MS-4.

Thank you, Al, and all the other folks who tried to help.

73, Jim K5JG

[Non-text portions of this message have been removed]

1810. Clarification: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 07:32:51 UTC
From: Les Zwiebel WB6ORZ
Topic: 1810 Message: 1810

Clarification: I was actually wondering if you were looking for and found a replacement driver for the MS-4.
Thanks.
Les
----- Original Message -----
From: Jim Gerke
To: DrakeRadio@yahoogroups.com
Sent: Saturday, February 07, 2009 9:38 PM
Subject: [DrakeRadio] Re: Replacement Speaker

Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker for my MS-4.

Thank you, Al, and all the other folks who tried to help.

73, Jim K5JG

[Non-text portions of this message have been removed]

1811. Re: [DrakeRadio] Re: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 13:31:26 UTC
From: DALE PARFITT
Topic: 1801 Message: 1811

----- Original Message -----
From: Les Zwiebel WB6ORZ
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 11, 2009 2:29 AM
Subject: Re: [DrakeRadio] Re: Replacement Speaker

Say, Jim...where did you find the replacement speaker?
Thanks in advance.
Les

Hi Les,
I have a spare speaker (not the entire MS-4, just the speaker).

Dale W4OP

1812. Re: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 13:36:38 UTC
From: de_n7ioh
Topic: 1801 Message: 1812

Hi Les and the group. Radio Shack made a 5"x7" speaker that has been used to replace the MS-4 speakers. Unfortunately it was discontinued a few years ago. You can still find them new on ebay now and then, the RS # is 40-1261C. I just referred Jim to one that was new for sale on Ebay. Also Surplus Sales has a speaker that looks like it should work thanks to a tip from Mike kb2kki. Here is a link to it, it's about 1/2 way down the page.
http://www.surplussales.com/Collins/CollMisc.html

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, "Les Zwiebel WB6ORZ" <wb6orz@...> wrote:
>
> Say, Jim...where did you find the replacement speaker?
> Thanks in advance.
> Les
> ----- Original Message -----
> From: Jim Gerke
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, February 07, 2009 9:38 PM
> Subject: [DrakeRadio] Re: Replacement Speaker
>
>
> Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker
> for my MS-4.
>
> Thank you, Al, and all the other folks who tried to help.
>
> 73, Jim K5JG
>
>
>
>
> [Non-text portions of this message have been removed]
>

1813. T-4XC finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 17:05:35 UTC
From: Victor Waddington
Topic: 1813 Message: 1813

Hi
Anyone put me right please.
Is the 6JF6 Ok as a replacement for the finals in the T-4XC without mod?
If so, what are the up and down sides performancewise. Also what about
the bias?
73
Vic

1814. Re: [DrakeRadio] T-4XC finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 17:32:29 UTC
From: Garey Barrell
Topic: 1813 Message: 1814

Vic -

Never tried them, but ....

Considerably higher capacitances, probably need neutralization modification.

Higher transconductance, possible instability problems.

Probably "'could" work. If on hand, or much cheaper. Otherwise better
to stick with 6JB6.

6GJ5 is a good sub.

Higher filament current, unsuitable for TR-4 series. (Series/Parallel
filaments.)

If you try, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi
> Anyone put me right please.
> Is the 6JF6 Ok as a replacement for the finals in the T-4XC without mod?
> If so, what are the up and down sides performancewise. Also what about
> the bias?
> 73
> Vic
>
>

1815. Re: [DrakeRadio] T-4XC finals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 18:44:36 UTC
From: g4jss@tiscali.co.uk
Topic: 1813 Message: 1815

Hi Garey

Thanks for info.

I have a dead T-4XC that has had some mods done to it on the rtty board and probably elsewhere. . Haven't really had a look yet but thought I would give the valves (tubes) a try and see if they worked. So tried them one at a time in one of my working Tx's and they were all ok until I came to the PA's and found them to be 6JF6's. Didn't try them - wasn't worth the risk.

I regret I won't be able to let you know (chicken) 'cos I'm not prepared to zero a good working T-4XC for experimental purposes!!

I knew the Tx was dead when I bought it so if I can't get it to work I have a complete set of spairs.

73

Vic
----Original Message----
From: k4oah@...
Date: 11/02/2009 17:32
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC finals

Vic -

Never tried them, but ....

Considerably higher capacitances, probably need neutralization modification.

Higher transconductance, possible instability problems.

Probably "'could" work. If on hand, or much cheaper. Otherwise better
to stick with 6JB6.

6GJ5 is a good sub.

Higher filament current, unsuitable for TR-4 series. (Series/Parallel
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If you try, let us know!

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> If so, what are the up and down sides performancewise. Also what about
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> Vic
>
>

50% off Norton Security 2009 - http://www.tiscali.co.uk/security

---

[Non-text portions of this message have been removed]

1816. T-4XB Tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 18:58:48 UTC
From: John E. Beck
Topic: 1816 Message: 1816

Greetings.

I have started to re-learn how to tune a tube transmitter. (It seemed easier with the Heathkit SB-102 back in the early 70's, but that could be faulty memory.) I have used the instructions from the Drake manual, along with other material gathered from the Internet. The emphasis from all sources is to limit the amount of time the circuit is not resonant. But the amount of time spent in the tune mode is never specified. The only reference I have found to date is from a web site with tune up instructions for a Signal One. They state:

"Be sure to observe the 5 Second limit in TUNE and wait at least 15 seconds before going to TUNE again."

In your experience, does that advice sound like a reasonable rule of thumb?

(I could be over-reacting to a growing fear of ruining the rare and expensive finals before my learning curve flattens out!)

Thanks in advance for your advice.

John
WB0RXL

1817. Re: Clarification: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 20:34:09 UTC
From: john baker
Topic: 1810 Message: 1817

I imagine that, if you can find the stats on that speaker, you should be able to find a suitable replacement from a modern speaker company. Might even be able to make it sound better.

I have an icom sp-3 (actually, two of them) and love the sound of it (Granted, they are not wired up to my Drakes). I believe one of teh reasons is because they are closed/sealed speaker boxes.

Maybe closing off the ms-4 box with the proper speaker, since you are replacing it anyways, will give an even nicer sound than the original. If you are not using the box for the power supply some insulation, like used in winter jackets, placed in the closed box can be used to change the tone as well. One cavaet: sealing all the seams will be necessary when closing off the box or you will get whistles and rushing air sounds thru them.

Food for thought.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Les Zwiebel WB6ORZ" <wb6orz@...> wrote:
>
> Clarification: I was actually wondering if you were looking for and found a replacement driver for the MS-4.
> Thanks.
> Les
> ----- Original Message -----
> From: Jim Gerke
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, February 07, 2009 9:38 PM
> Subject: [DrakeRadio] Re: Replacement Speaker
>
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> Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker
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>
> Thank you, Al, and all the other folks who tried to help.
>
> 73, Jim K5JG
>
>

>
>
> [Non-text portions of this message have been removed]
>

1818. Re: [DrakeRadio] T-4XB Tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 20:34:23 UTC
From: Garey Barrell
Topic: 1816 Message: 1818

John -

IF the final is tuned to resonance, (the DIP,) you can stay in TUNE mode as long as you want. In the Drake transmitters the Final screen voltage is reduced in TUNE to limit the off-resonance current, but the tubes will still draw enough current to damage themselves or the transmitter/power supply if they are allowed to stay OFF resonance for more than a few seconds. If you have a problem getting the PLATE adjustment to dip within 5-10 seconds, something is wrong. Perhaps the wrong antenna is selected? Antenna tuner misadjusted? NO antenna connected? The key is to find out WHY the Final won't dip with the key UP! :-)

There is a class of user that tunes up their transmitter by keying the transmitter, then looking for the manual for directions, then looking for their glasses so they can see the manual and/or the meter, and THEN dip the PLATE. Sweep tube (or other) Finals don't last long under these conditions.

A small fan either sitting on top of the Final cage area or mounted on the back wall of the PA cage, blowing _OUT_ , will go a long way to extend the tube life. You don't need a hurricane, just a gentle, silent flow of air to move the heat away from the PA area and away from the transmitter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

John E. Beck wrote:
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> web site with tune up instructions for a Signal One. They state:
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> "Be sure to observe the 5 Second limit in TUNE and wait at least 15
> seconds before going to TUNE again."
>

> In your experience, does that advice sound like a reasonable rule of
> thumb?
>
> (I could be over-reacting to a growing fear of ruining the rare and
> expensive finals before my learning curve flattens out!)
>
> Thanks in advance for your advice.
>
> John
> WB0RXL
>
>

1819. Re: T-4XB Tuning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 21:23:20 UTC
From: John E. Beck
Topic: 1816 Message: 1819

Thank you Garey.

> In the Drake transmitters the Final screen voltage
> is reduced in TUNE to limit the off-resonance current, but the
tubes
> will still draw enough current to damage themselves or the
> transmitter/power supply if they are allowed to stay OFF resonance
for
> more than a few seconds.

Ah - that's good to know.

> If you have a problem getting the PLATE
> adjustment to dip within 5-10 seconds, something is wrong.

No problem with that. I have found that dip quickly each time.

>
> A small fan either sitting on top of the Final cage area or mounted
on
> the back wall of the PA cage, blowing _OUT_ , will go a long way
to
> extend the tube life. You don't need a hurricane, just a gentle,

Yep - 12 VDC fan is in place - one on the transmitter and another one
on the R-4B receiver. (See - I am paranoid!)
Thanks again for the information. I just wanted to be absolutely
certain I was doing this right.

73.

John

1820. Re: [DrakeRadio] Re: Replacement Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-11 23:57:19 UTC
From: Jim Gerke
Topic: 1801 Message: 1820

Al,

Thanks for answering the guys' questions while I was toiling away at the office!

The speaker from eBay came today, BTW. I haven't had time to install it yet, but it looks ok.

Thanks again for tipping me to it.

73, Jim K5JG

de_n7ioh wrote:
> Hi Les and the group. Radio Shack made a 5"x7" speaker that has been
> used to replace the MS-4 speakers. Unfortunately it was discontinued
> a few years ago. You can still find them new on ebay now and then,
> the RS # is 40-1261C. I just referred Jim to one that was new for
> sale on Ebay. Also Surplus Sales has a speaker that looks like it
> should work thanks to a tip from Mike kb2kki. Here is a link to it,
> it's about 1/2 way down the page.
> http://www.surplussales.com/Collins/CollMisc.html
>
> Al, n7ioh
>
>
> --- In DrakeRadio@yahoogroups.com, "Les Zwiebel WB6ORZ" <wb6orz@...>
> wrote:
>> Say, Jim...where did you find the replacement speaker?
>> Thanks in advance.
>> Les
>> ----- Original Message -----
>> From: Jim Gerke
>> To: DrakeRadio@yahoogroups.com
>> Sent: Saturday, February 07, 2009 9:38 PM
>> Subject: [DrakeRadio] Re: Replacement Speaker
>>
>>
>> Thanks to a tip from Al, N7IOH, I have acquired a replacement speaker
>> for my MS-4.
>>
>> Thank you, Al, and all the other folks who tried to help.
>>
>> 73, Jim K5JG
>>
>>
>>

>>
>> [Non-text portions of this message have been removed]
>>
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> ------------------------------------
>
> Yahoo! Groups Links
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1821. Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 01:12:00 UTC
From: de_n7ioh
Topic: 1821 Message: 1821

I have decided to get back into the Drake gear and I am looking for a R-4B and a T-4XC. While I am not looking for showroom condition I do want something I can be proud to display. I am wanting a R-4B with a serial number over 10501 and a T-4XC with a serial number over 26670. I never sold my TR-6 and AC-4 so I am good there. Please PM me with what you have and your asking price.

Al, n7ioh

1822. What did Drake use for tubes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 01:44:42 UTC
From: de_n7ioh
Topic: 1822 Message: 1822

I was looking in my TR-6 manual and noticed that Drake specified certain brand tubes in some locations.
V-5 6BZ6 (RCA) calibration generator
V-6 6GK6 (Sylvania) Transmitting driver
V-8,9,10 6BJ6 (Sylvania) (Match set) XMTR output amplifier
V-13 12AX7 (Sylvania) AGC generator
V-18 12AX7 (RCA) microphone amplifier

Anyone know what Drake used in the other locations or should I be concerned when replacing any of the other tubes? Recommendations?

Since I will be getting a R-4B and a T-4XC later I also would like to know about the tubes in these radios. The Drake manual for these rigs really does not say to use any particular brand of tubes. From my reading I know that for the finals the Sylvania is the preferred tube but what about the other tubes? Any brand of tubes we should stay away from?

Thanks, Al n7ioh

1823. Re: [DrakeRadio] Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 03:32:47 UTC
From: Garey Barrell
Topic: 1821 Message: 1823

Al -

Just out of curiosity... Why would you want a T-4XC to use with an R4-B??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

de_n7ioh wrote:
> I have decided to get back into the Drake gear and I am looking for a
> R-4B and a T-4XC. While I am not looking for showroom condition I do
> want something I can be proud to display. I am wanting a R-4B with a
> serial number over 10501 and a T-4XC with a serial number over 26670.
> I never sold my TR-6 and AC-4 so I am good there. Please PM me with
> what you have and your asking price.
>
> Al, n7ioh
>
>

1824. Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 03:51:21 UTC
From: de_n7ioh
Topic: 1821 Message: 1824

Well I hope I'm not doing something wrong? I had the R-4B receiver before and liked it better than the stock R-4C that I had. From what I read any of the 4 line receivers can be used with any of the 4 line transmitters. I had the T-4XC and it worked well and has a few extras that the T-4XB doesn't. I just thought it would make a better package. Did I miss something? I always welcome your input Garey.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Al -
>
> Just out of curiosity... Why would you want a T-4XC to use with an R4-B??
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> de_n7ioh wrote:
> > I have decided to get back into the Drake gear and I am looking for a
> > R-4B and a T-4XC. While I am not looking for showroom condition I do
> > want something I can be proud to display. I am wanting a R-4B with a
> > serial number over 10501 and a T-4XC with a serial number over 26670.
> > I never sold my TR-6 and AC-4 so I am good there. Please PM me with
> > what you have and your asking price.
> >
> > Al, n7ioh
> >
> >
>

1825. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 03:55:37 UTC
From: Garey Barrell
Topic: 1821 Message: 1825

Al -

No, nothing wrong, but I'm not aware of any "extras" that the T-4XC has aside from the dual dial disks.

I'm with you on the R-4B!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

de_n7ioh wrote:
> Well I hope I'm not doing something wrong? I had the R-4B receiver
> before and liked it better than the stock R-4C that I had. From what
> I read any of the 4 line receivers can be used with any of the 4 line
> transmitters. I had the T-4XC and it worked well and has a few extras
> that the T-4XB doesn't. I just thought it would make a better
> package. Did I miss something? I always welcome your input Garey.
>
> Al, n7ioh
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Al -
>>
>> Just out of curiosity... Why would you want a T-4XC to use with an
>>
> R4-B??
>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> de_n7ioh wrote:
>>
>>> I have decided to get back into the Drake gear and I am looking for a
>>> R-4B and a T-4XC. While I am not looking for showroom condition I do
>>> want something I can be proud to display. I am wanting a R-4B with a
>>> serial number over 10501 and a T-4XC with a serial number over 26670.

>>> I never sold my TR-6 and AC-4 so I am good there. Please PM me with
>>> what you have and your asking price.
>>>
>>> Al, n7ioh
>>>
>>>
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> Yahoo! Groups Links
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> --
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.234 / Virus Database: 270.10.22/1946 - Release Date: 02/10/09 07:20:00
>
>

1826. Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 04:38:11 UTC
From: de_n7ioh
Topic: 1821 Message: 1826

Well you made me go back and look. It's really not much of a
difference after all. The T-4XC did away with the 0A2 tube regulator.
It has a solid state VFO and premixed injection which is suppose to
be an improvement. It has an external crystal socket on the front
panel which I will most likely never use. There are a few extra
connections on the back including a RTTY hookup. It is more readily
adapted for use on VHF which I might try someday. There is no copper
chassis which some like and some don't. I don't mind the copper if it
looks good but most are showing their age and a nice one is getting
harder to find.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Al -
>
> No, nothing wrong, but I'm not aware of any "extras" that the T-4XC has
> aside from the dual dial disks.
>
> I'm with you on the R-4B!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> de_n7ioh wrote:
> > Well I hope I'm not doing something wrong? I had the R-4B receiver
> > before and liked it better than the stock R-4C that I had. From what
> > I read any of the 4 line receivers can be used with any of the 4 line
> > transmitters. I had the T-4XC and it worked well and has a few extras
> > that the T-4XB doesn't. I just thought it would make a better
> > package. Did I miss something? I always welcome your input Garey.
> >
> > Al, n7ioh
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >> Al -
> >>

> >> Just out of curiosity... Why would you want a T-4XC to use with an
> >>
> > R4-B??
> >
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> de_n7ioh wrote:
> >>
> >>> I have decided to get back into the Drake gear and I am looking
for a
> >>> R-4B and a T-4XC. While I am not looking for showroom condition
I do
> >>> want something I can be proud to display. I am wanting a R-4B
with a
> >>> serial number over 10501 and a T-4XC with a serial number over
26670.
> >>> I never sold my TR-6 and AC-4 so I am good there. Please PM me
with
> >>> what you have and your asking price.
> >>>
> >>> Al, n7ioh
> >>>
> >>>
> >>>
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> > >
> > > Yahoo! Groups Links
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> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.0.234 / Virus Database: 270.10.22/1946 - Release Date:
02/10/09 07:20:00
> > >
> > >

>

1827. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 15:30:16 UTC
From: Garey Barrell
Topic: 1821 Message: 1827

OK

The B used the +150V bus from the 0A2 to power the Carrier Oscillator along with the screens of the IF Amp, Mixer and Premixer stages. The CO of course was for frequency stability and the screens were for improved linearity. The 0A2 was removed in the C, primarily because the Carrier Oscillator was changed from tube to transistor. Any linearity and stability improvements enabled by the screen regulation was given up. Probably not significant, but a slight downgrade.

The PTO is SS in ALL, the early B used a Bipolar transistor, (< s/n 13750,) late B and C used a FET. ALL use the PreMixer system, a 6HS6 in the B, 6EJ7 in the C.

No provision for crystal control in the B.

There are no VHF connections on the back, only holes for connectors. Same as the B.

The RTTY jack only shifts the audio bandwidth to allow higher tones associated with 850 Hz shift RTTY. No value with current Sound Card based digital modes.

The C DOES have a few improvements:

Alodine chassis instead of copper. The alodine is not always perfect, but generally less subject to corrosion than the copper.

Uses dial light for "PTO in use" indicator rather than neon fiducial in B. BUT only works with R-4C.

Phase locks the CO and BFO, eliminating the "Transceive align" problem, but ONLY with the R-4C.

REAL improvements when used with the R-4B:

Mic jack on the back panel instead of the side.

Separate VOX DELAY pots for SSB and CW.

Dual dial discs for 1 kHz readout on DIAL rather than dial and knob skirt.

Personally, the only USEFUL improvement, when used with the R-4B, is the dual VOX DELAY pots! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

de_n7ioh wrote:
> Well you made me go back and look. It's really not much of a
> difference after all. The T-4XC did away with the 0A2 tube regulator.
> It has a solid state VFO and premixed injection which is suppose to
> be an improvement. It has an external crystal socket on the front
> panel which I will most likely never use. There are a few extra
> connections on the back including a RTTY hookup. It is more readily
> adapted for use on VHF which I might try someday. There is no copper
> chassis which some like and some don't. I don't mind the copper if it
> looks good but most are showing their age and a nice one is getting
> harder to find.
>
> Al, n7ioh
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Al -
>>
>> No, nothing wrong, but I'm not aware of any "extras" that the T-4XC has
>> aside from the dual dial disks.
>>
>> I'm with you on the R-4B!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> de_n7ioh wrote:
>>
>>> Well I hope I'm not doing something wrong? I had the R-4B receiver
>>> before and liked it better than the stock R-4C that I had. From what
>>> I read any of the 4 line receivers can be used with any of the 4 line
>>> transmitters. I had the T-4XC and it worked well and has a few extras
>>> that the T-4XB doesn't. I just thought it would make a better
>>> package. Did I miss something? I always welcome your input Garey.
>>>
>>> Al, n7ioh
>>>
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
>>>
>>>
>>>> Al -

>>>>
>>>> Just out of curiosity... Why would you want a T-4XC to use with an
>>>>
>>>>
>>> R4-B??
>>>
>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>

1828. Re: [DrakeRadio] What did Drake use for tubes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 16:43:39 UTC
From: Garey Barrell
Topic: 1822 Message: 1828

Al -

Interesting! I've never owned a TR-6, and hadn't seen that.

Drake used Sylvania and RCA tubes almost exclusively until the late stages when certain types of tubes became hard to obtain in production quantities.

My experience has been that for Finals, Sylvania, Zenith (all made by Sylvania), RCA and GE are best, in that order. Sylvania is the only manufacturer that actually evaluated and characterized their sweep tubes for RF use, so hopefully would not have changed any manufacturing methods to invalidate that information. The fact is that those tubes were designed for use at 15 kHz TV Horizontal sweep use, NOT at 30 MHz. So interelectrode capacitances, internal lead length and arrangement, and other factors were NOT necessarily of concern. Raytheon, Westinghouse and of course the International, Supreme and other "generic" brands and rebrands are all suspect and may or may not work, depending upon who "really" built them.

Generally speaking, small receiving tubes are much more consistent, and are typically interchangeable from brand to brand. Personally, I stick with "real" brands such as Sylvania, RCA, GE, Amperex and Mullard, since these are almost always made by whoever has put their name on them. There was always a certain amount of rebranding amongst even the major manufacturers because of scheduling and availability, but tubes were their business and they couldn't afford to risk damaging it.

My guess on the specific brand tubes specified for the TR-6 is the result of pushing the envelope and empirical data showing that these brands worked in the particular circuit better than another. I understand using the Sylvania tubes for the RF stages, perhaps the RCA tube showed better harmonic generation than the Sylvania, maybe the RCA 12AX7 had less hum as a Mic Amp. ??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

de_n7ioh wrote:
> I was looking in my TR-6 manual and noticed that Drake specified
> certain brand tubes in some locations.
> V-5 6BZ6 (RCA) calibration generator
> V-6 6GK6 (Sylvania) Transmitting driver
> V-8,9,10 6BJ6 (Sylvania) (Match set) XMTR output amplifier

> V-13 12AX7 (Sylvania) AGC generator
> V-18 12AX7 (RCA) microphone amplifier
>
> Anyone know what Drake used in the other locations or should I be
> concerned when replacing any of the other tubes? Recommendations?
>
> Since I will be getting a R-4B and a T-4XC later I also would like to
> know about the tubes in these radios. The Drake manual for these rigs
> really does not say to use any particular brand of tubes. From my
> reading I know that for the finals the Sylvania is the preferred tube
> but what about the other tubes? Any brand of tubes we should stay
> away from?
>
> Thanks, Al n7ioh
>
>

1829. Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 18:14:54 UTC
From: john baker
Topic: 1821 Message: 1829

Also, doesn't the T-x4c have metal gears, as opposed to plastic on
the T-x4b?

73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>
> Well you made me go back and look. It's really not much of a
> difference after all. The T-4XC did away with the 0A2 tube
regulator.
> It has a solid state VFO and premixed injection which is suppose to
> be an improvement. It has an external crystal socket on the front
> panel which I will most likely never use. There are a few extra
> connections on the back including a RTTY hookup. It is more readily
> adapted for use on VHF which I might try someday. There is no
copper
> chassis which some like and some don't. I don't mind the copper if
it
> looks good but most are showing their age and a nice one is getting
> harder to find.
>
> Al, n7ioh
>
> Date:
> 02/10/09 07:20:00
> > >
> > >
> >
>

1830. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 18:42:47 UTC
From: g4jss@tiscali.co.uk
Topic: 1821 Message: 1830

Hi

Well don't know about metal gears. My 3 T-4XC's all have nylon gearing and a definite No,No for oil - unless you want a problem.

73

Vic

----Original Message----
From: xjjb4x4@...
Date: 12/02/2009 18:14
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Also, doesn't the T-x4c have metal gears, as opposed to plastic on the T-x4b?

73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>
> Well you made me go back and look. It's really not much of a
> difference after all. The T-4XC did away with the 0A2 tube regulator.
> It has a solid state VFO and premixed injection which is suppose to
> be an improvement. It has an external crystal socket on the front
> panel which I will most likely never use. There are a few extra
> connections on the back including a RTTY hookup. It is more readily
> adapted for use on VHF which I might try someday. There is no copper
> chassis which some like and some don't. I don't mind the copper if it
> looks good but most are showing their age and a nice one is getting
> harder to find.
>
> Al, n7ioh
>
> Date:
> 02/10/09 07:20:00
> > >
> > >
> >
>

See the best bands, live - http://www.tiscali.co.uk/live

[Non-text portions of this message have been removed]

1831. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 19:18:43 UTC
From: Garey Barrell
Topic: 1821 Message: 1831

The very latest R-4C and T-4XC units had metal gears. They are of questionable value, slightly noisier. Probably a cost decision in that they were cheaper than the quantity that would have to have been ordered to make more nylon gears.

The nylon gears are actually "better", as long as no-one oils them!!

The "collectors" want them because they're "rare"!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

john baker wrote:
> Also, doesn't the T-x4c have metal gears, as opposed to plastic on
> the T-x4b?
>
> 73
> jb
> kg6biw
>
>
> --- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>
>> Well you made me go back and look. It's really not much of a
>> difference after all. The T-4XC did away with the 0A2 tube
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> regulator.
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>> It has a solid state VFO and premixed injection which is suppose to
>> be an improvement. It has an external crystal socket on the front
>> panel which I will most likely never use. There are a few extra
>> connections on the back including a RTTY hookup. It is more readily
>> adapted for use on VHF which I might try someday. There is no
>>
> copper
>
>> chassis which some like and some don't. I don't mind the copper if
>>
> it
>
>> looks good but most are showing their age and a nice one is getting
>> harder to find.
>>

>> Al, n7ioh
>>
>> Date:
>> 02/10/09 07:20:00
>>

1832. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-12 20:30:12 UTC
From: Garey Barrell
Topic: 1821 Message: 1832

Oops!!

It has been brought to my attention that I missed one of the most important differences between the B and C transmitters.....

The C has a PLUG-IN T/R relay! That could be a deal-breaker. There is/was a kit available to replace the B's wired-in relay with the standard plug-in relay used in the C. Even if you are able to buy or build a kit, the installation is no walk in the park.......

So the bottom line now, (at least to me,) breaks down to:

IF you go with the B, you give up the plug-in relay and the PTO in use lights

IF you go with the C, you GAIN the plug-in relay and the dual DELAY pots.

I guess I'd choose the T-4XB for use with the R-4B if someone had already converted the relay! I have two B-Lines, and the relays are still fine, but....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

--- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>> Well you made me go back and look. It's really not much of a
>> difference after all. The T-4XC did away with the 0A2 tube
>>
> regulator.
>
>> It has a solid state VFO and premixed injection which is suppose to
>> be an improvement. It has an external crystal socket on the front
>> panel which I will most likely never use. There are a few extra
>> connections on the back including a RTTY hookup. It is more readily
>> adapted for use on VHF which I might try someday. There is no
>>
> copper
>
>> chassis which some like and some don't. I don't mind the copper if
>>
> it
>
>> looks good but most are showing their age and a nice one is getting
>> harder to find.

>>
>> Al, n7ioh
>>

1833. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 03:22:39 UTC
From: W6IDS
Topic: 1821 Message: 1833

I wonder if there's ever been any info submitted on that modification
to the B line relay? Have you ever seen it?

Howard W6IDS
Richmond, IN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, February 12, 2009 3:30 PM
Subject: Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

> Oops!!
>
> It has been brought to my attention that I missed one of the most
> important differences between the B and C transmitters.....
>
> The C has a PLUG-IN T/R relay! That could be a deal-breaker. There
> is/was a kit available to replace the B's wired-in relay with the
> standard plug-in relay used in the C. Even if you are able to buy or
> build a kit, the installation is no walk in the park.......

<SNIP> <SNIP>

1834. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 03:35:34 UTC
From: Garey Barrell
Topic: 1821 Message: 1834

Howard -

I have the information for the mod kit that Drake sold. John Kriner (The Man Electronics) has had the PC board, but all he lists now is the one for the TR-3/4, so I guess he sold out.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

W6IDS wrote:
> I wonder if there's ever been any info submitted on that modification
> to the B line relay? Have you ever seen it?
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> Howard W6IDS
> Richmond, IN
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, February 12, 2009 3:30 PM
> Subject: Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC
>
>
>
>> Oops!!
>>
>> It has been brought to my attention that I missed one of the most
>> important differences between the B and C transmitters.....
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>> The C has a PLUG-IN T/R relay! That could be a deal-breaker. There
>> is/was a kit available to replace the B's wired-in relay with the
>> standard plug-in relay used in the C. Even if you are able to buy or
>> build a kit, the installation is no walk in the park.......
>>

1835. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 15:48:01 UTC
From: g4jss@tiscali.co.uk
Topic: 1821 Message: 1835

Hello

Whilst relays are under discussion in the 4 series perhaps someone can help on this. I mentioned that I had a dead T-4XC previously.

So here we go:-

1) There is a mini jack point fitted on the rear chassis apron with a couple of leads that lead to the relay board and presumably parelleled up with a pair of relay contacts. I don't know which at the moment as I haven't progressed that far. But I am informed that there are 2 differing relay boards for the T-4XC so my cct. dia may be the right/wrong one.

So the question is, ' if there were different relay boards fitted to the T4XC what was the difference.'

.

Whilst I am nattering away I may as well mention the last point. There are also a couple of leads coming out of the back which lead to the Cinch-Jones plug - obviously a supply for something. Haven't checked which pins they come from yet. Also Q4 has been removed from the rtty/buffer board along with a cap. Why? I don't know.

Main question is were there different relay boards and how did they differ.

All help welcome.

Vic - G4JSS

----Original Message----
From: k4oah@...
Date: 13/02/2009 3:35
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Howard -

I have the information for the mod kit that Drake sold. John Kriner
(The Man Electronics) has had the PC board, but all he lists now is the
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W6IDS wrote:
> I wonder if there's ever been any info submitted on that modification
> to the B line relay? Have you ever seen it?

>
> Howard W6IDS
> Richmond, IN
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, February 12, 2009 3:30 PM
> Subject: Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC
>
>
>
>> Oops!!
>>
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>> The C has a PLUG-IN T/R relay! That could be a deal-breaker. There
>> is/was a kit available to replace the B's wired-in relay with the
>> standard plug-in relay used in the C. Even if you are able to buy or
>> build a kit, the installation is no walk in the park.......
>>

See the best bands, live - http://www.tiscali.co.uk/live

[Non-text portions of this message have been removed]

1836. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 16:21:34 UTC
From: Garey Barrell
Topic: 1821 Message: 1836

Vic -

I'm not aware of different relay boards in the two versions of the T-4XC. The original design, starting with s/n 20181, had a 15k ohm T/R relay that proved to be unreliable. The coil wire was so thin that it often broke, usually at the point where it attached to the terminal, either from corrosion or thermal flexing. The second version, starting with s/n 26670, had the 2.5k ohm relay. This change required the addition of a 1.5k, 1W resistor in series with the relay coil. This resistor was mounted at the socket for V10, so would not have required a change to the relay board.

The attached photo is from my CD, at reduced resolution, and is of a "late" relay board. R49 and R59 have obviously been replaced at some time.

The RTTY circuit was used to shift the Carrier Oscillator to favor the high frequency response to allow use of the higher audio tones used with 850 shift RTTY. Of no value for today's sound card based digital modes.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hello
>
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>
> So here we go:-
>
> 1) There is a mini jack point fitted on the rear chassis apron with a couple of leads that lead to the relay board and presumably parelleled up with a pair of relay contacts. I don't know which at the moment as I haven't progressed that far. But I am informed that there are 2 differing relay boards for the T-4XC so my cct. dia may be the right/wrong one.
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> So the question is, ' if there were different relay boards fitted to the T4XC what was the difference.'
>
> .
>
> Whilst I am nattering away I may as well mention the last point. There are also a couple of leads coming out of the back which lead to the Cinch-Jones plug - obviously a supply for something. Haven't checked which pins they come from yet. Also Q4 has been removed from the

rtty/buffer board along with a cap. Why? I don't know.
>
> Main question is were there different relay boards and how did they differ.
>
> All help welcome.
>
> Vic - G4JSS
>
>

[Non-text portions of this message have been removed]

1837. Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 16:59:27 UTC
From: g4jss@tiscali.co.uk
Topic: 1821 Message: 1837

Garey

Qsl the info. It seems then that the relay board had the same cct. as the original but - depending on whether there was a 15k or 2.5k relay an addition of a resistor which was not mounted on the relay board..

Let you know how I go on when my grandkids give me time to look deeper.!!

Vic

----Original Message----
From: k4oah@...
Date: 13/02/2009 16:21
To: <DrakeRadio@yahoogroups.com>, "g4jss@..."<g4jss@...>
Subj: Re: [DrakeRadio] Re: Wanted R-4B and a T-4XC

Vic -

I'm not aware of different relay boards in the two versions of the
T-4XC. The original design, starting with s/n 20181, had a 15k ohm T/R
relay that proved to be unreliable. The coil wire was so thin that it
often broke, usually at the point where it attached to the terminal,
either from corrosion or thermal flexing. The second version, starting
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addition of a 1.5k, 1W resistor in series with the relay coil. This
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Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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g4jss@... wrote:
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>
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>
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> So the question is, ' if there were different relay boards fitted to the T4XC what was the difference.'
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>
> Main question is were there different relay boards and how did they differ.
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> All help welcome.
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> Vic - G4JSS
>
>

[Non-text portions of this message have been removed]

See the best bands, live - http://www.tiscali.co.uk/live

[Non-text portions of this message have been removed]

1838. Re: Wanted R-4B and a T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 17:28:03 UTC
From: de_n7ioh
Topic: 1821 Message: 1838

OK, I have purchased a T-4XC and should have it in a week or so. I am still looking for the R-4B.

Thanks, Al, n7ioh

--- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>
> I have decided to get back into the Drake gear and I am looking for a R-4B and a T-4XC. While I am not looking for showroom condition I do want something I can be proud to display. I am wanting a R-4B with a serial number over 10501 and a T-4XC with a serial number over 26670. I never sold my TR-6 and AC-4 so I am good there. Please PM me with what you have and your asking price.
>
> Al, n7ioh
>

1839. Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:09:24 UTC
From: ranges_2001
Topic: 1839 Message: 1839

Hello Group

I recently acquired T-R4XC (SR-27622) and an R-4C (SR-26525)with all documentation, repair records from Drake, and sales receipt. The equipment appears to be like new with no modifications that I can see anywhere. I do not believe the radios have been used for a few years. I am not sure if I want to send these off to have them brought up to factory specs if needed or to sell or trade them.
Would these be considered collectors items. Can someone tell me what the equipment should be worth.

Thanks for any help.

Thanks,
Randy / n4jzy

1840. Re: [DrakeRadio] Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:16:00 UTC
From: Edward Sylvester
Topic: 1839 Message: 1840

About $700.....The real value in these is when Sherwood modifies them....Caps probably need replacing...

Ed NI6S

--- On Fri, 2/13/09, ranges_2001 <kd4jzy@...> wrote:

From: ranges_2001 <kd4jzy@...>
Subject: [DrakeRadio] Newly Aquired C Line
To: DrakeRadio@yahoogroups.com
Date: Friday, February 13, 2009, 12:09 PM

Hello Group

I recently acquired T-R4XC (SR-27622) and an R-4C (SR-26525)with all documentation, repair records from Drake, and sales receipt. The equipment appears to be like new with no modifications that I can see anywhere. I do not believe the radios have been used for a few years. I am not sure if I want to send these off to have them brought up to factory specs if needed or to sell or trade them.
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Thanks for any help.

Thanks,
Randy / n4jzy

[Non-text portions of this message have been removed]

1841. Re: [DrakeRadio] Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:29:11 UTC
From: Randy Pence
Topic: 1839 Message: 1841

Thanks Ed

I have just a little more than that invested but do not feel to bad considering the shape of the equipment. I had considered the Sherwood mods but thought it may devalue the equipment. Sounds like I may want to go ahead with them.

Randy / n4jzy

On Fri, Feb 13, 2009 at 3:16 PM, Edward Sylvester
<navydude1962@...> wrote:
> About $700.....The real value in these is when Sherwood modifies
> them....Caps probably need replacing...
>
> Ed NI6S
>
> --- On Fri, 2/13/09, ranges_2001 <kd4jzy@...> wrote:
>
> From: ranges_2001 <kd4jzy@...>
> Subject: [DrakeRadio] Newly Aquired C Line
> To: DrakeRadio@yahoogroups.com
> Date: Friday, February 13, 2009, 12:09 PM
>
> Hello Group
>
> I recently acquired T-R4XC (SR-27622) and an R-4C (SR-26525)with all
> documentation, repair records from Drake, and sales receipt. The
> equipment appears to be like new with no modifications that I can see
> anywhere. I do not believe the radios have been used for a few years.
> I am not sure if I want to send these off to have them brought up to
> factory specs if needed or to sell or trade them.
> Would these be considered collectors items. Can someone tell me what
> the equipment should be worth.

1842. Re: Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:30:47 UTC
From: hetman45
Topic: 1839 Message: 1842

--- In DrakeRadio@yahoogroups.com, Edward Sylvester
<navydude1962@...> wrote:
>
> About $700.....The real value in these is when Sherwood modifies
them....Caps probably need replacing...
>
> Ed NI6S
>
> --- On Fri, 2/13/09, ranges_2001 <kd4jzy@...> wrote:
>
> From: ranges_2001 <kd4jzy@...>
> Subject: [DrakeRadio] Newly Aquired C Line
> To: DrakeRadio@...m
> Date: Friday, February 13, 2009, 12:09 PM
> I agree with Ed, probably $700 at the most now.

73, Joel AE2JL
>
>
>
>
>
> Hello Group
>
> I recently acquired T-R4XC (SR-27622) and an R-4C (SR-26525)with all
> documentation, repair records from Drake, and sales receipt. The
> equipment appears to be like new with no modifications that I can
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> anywhere. I do not believe the radios have been used for a few
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> factory specs if needed or to sell or trade them.
> Would these be considered collectors items. Can someone tell me what
> the equipment should be worth.
>
> Thanks for any help.
>
> Thanks,
> Randy / n4jzy
>
>
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>
> [Non-text portions of this message have been removed]
>

1843. RE: [DrakeRadio] Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:34:12 UTC
From: James Chaggaris
Topic: 1839 Message: 1843

Randy,

Adding the Sherwood mod's will only add value to your C-line.

73,

James Chaggaris N9WW

PowerOne/PowerOne Environmental

1020 Cedar Avenue Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

Website www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Randy Pence
Sent: Friday, February 13, 2009 2:29 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Newly Aquired C Line

Thanks Ed

I have just a little more than that invested but do not feel to bad considering the shape of the equipment. I had considered the Sherwood mods but thought it may devalue the equipment. Sounds like I may want to go ahead with them.

Randy / n4jzy

On Fri, Feb 13, 2009 at 3:16 PM, Edward Sylvester <navydude1962@... <mailto:navydude1962%40yahoo.com> > wrote:
> About $700.....The real value in these is when Sherwood modifies
> them....Caps probably need replacing...
>
> Ed NI6S
>
> --- On Fri, 2/13/09, ranges_2001 <kd4jzy@... <mailto:kd4jzy%40gmail.com> > wrote:
>
> From: ranges_2001 <kd4jzy@... <mailto:kd4jzy%40gmail.com> >
> Subject: [DrakeRadio] Newly Aquired C Line

> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Date: Friday, February 13, 2009, 12:09 PM
>
> Hello Group
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> I recently acquired T-R4XC (SR-27622) and an R-4C (SR-26525)with all
> documentation, repair records from Drake, and sales receipt. The
> equipment appears to be like new with no modifications that I can see
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> factory specs if needed or to sell or trade them.
> Would these be considered collectors items. Can someone tell me what
> the equipment should be worth.

[Non-text portions of this message have been removed]

1844. Re: [DrakeRadio] Newly Aquired C Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-13 20:37:28 UTC
From: Edward Sylvester
Topic: 1839 Message: 1844

Be prepared to fork out $$$$....These just modify the receiver and are the only sanctioned mods for Drake that will actually increase their value. But do them while you can...Rob Sherwood won't be doing these for much longer....I have no regrets having done mine. I also have a high serial number, like yours....This hobby is $$$ driven, as you know :-)

Ed NI6S

--- On Fri, 2/13/09, Randy Pence <kd4jzy@...> wrote:

From: Randy Pence <kd4jzy@...>
Subject: Re: [DrakeRadio] Newly Aquired C Line
To: DrakeRadio@yahoogroups.com
Date: Friday, February 13, 2009, 12:29 PM

Thanks Ed

I have just a little more than that invested but do not feel to bad
considering the shape of the equipment. I had considered the Sherwood
mods but thought it may devalue the equipment. Sounds like I may want
to go ahead with them.

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On Fri, Feb 13, 2009 at 3:16 PM, Edward Sylvester
<navydude1962@ yahoo.com> wrote:
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> Ed NI6S
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> --- On Fri, 2/13/09, ranges_2001 <kd4jzy@gmail. com> wrote:
>
> From: ranges_2001 <kd4jzy@gmail. com>
> Subject: [DrakeRadio] Newly Aquired C Line
> To: DrakeRadio@yahoogro ups.com
> Date: Friday, February 13, 2009, 12:09 PM
>
> Hello Group
>
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> factory specs if needed or to sell or trade them.
> Would these be considered collectors items. Can someone tell me what
> the equipment should be worth.

[Non-text portions of this message have been removed]

1845. Re: [DrakeRadio] Re: DC Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-14 17:44:46 UTC
From: LEE BAHR
Topic: 1801 Message: 1845

I think about a week ago someone was talking on here about putting their Drake treansceiver in a mobil operation and needed a DC supply. I was over at a friend's home, yesterday, that has a DC-3 Drake Power Supply excess to his needs. He is Rich, W4GKR. He and I live near the Houston, Tx area. Rich's father was a ham and owned the DC-3. Rich's father is a silent key and Rich has his father's equipment. The DC-3 is untested and I suspect not used in a very very long time. If that person wanting a supply wants one, you can reach Rich at w4gkr@... Rich told me he would like $60.00 for the supply plus shipping. Being a CD supply, it does not weigh as much as an AC-4 supply. It is available AS IS and has no quarantee as it has been untested by Rich. I would suspect the electrolytic caps should be replaced internally before use as is normal with something this old.

Lee, w0vt
Houston, Texas

[Non-text portions of this message have been removed]

1846. Drake T-4XC + AC-4 F.S.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-14 18:01:14 UTC
From: DALE PARFITT
Topic: 1846 Message: 1846

I have a clean T-4XC S.N. 28XXX for sale. Although I have never used it on the air, it does make 100W on 80M and 70W on 10M. VOX and SSB appear OK. The cabinet is excellent and the front panel appears as new with the exception of some of the very outer edge, which is covered by the cabinet lip. Knobs are shiney with good striping.
Chassis has light spotting. A previous owner got over aggressive on cleaning the rear apron so the S.N. is light- but visible and there is also a clear label with the SN in black type. $200 shipped CONUS UPS.
I also have an AC-4 in good working order- case has some scratches and a small ding on one corner. $95 shipped UPS CONUS.
At one time I was going to set up C line separates, but my TR-4CW/RIT with an AM filter has proved a delight to use on all modes so I have abandoned the T-4XC/R-4C idea.
Dale W4OP

[Non-text portions of this message have been removed]

1847. Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 17:49:49 UTC
From: pulsarair
Topic: 1801 Message: 1847

Does anyone have a source for the power supply
cable itself used on AC-4 supplies? I have had a supply needing a cable
lying around here for a long time and it is unusable. I'd like to buy
some
grey jacketed cable with enough wires of the correct size to replace
the bad
one. Internal wire colors could be anything. I never "bundled"
discreet
wires on it as I always felt someday I'd find an appropriate cable to
use as
a replacement with the proper looking jacket. That never happened.

Lee, w0vt

1848. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 18:33:32 UTC
From: Kris Merschrod
Topic: 1801 Message: 1848

Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.

Kris (KA2OIG) Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734
----- Original Message -----
From: pulsarair
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 12:49 PM
Subject: [DrakeRadio] Re: AC-4 Cable

Does anyone have a source for the power supply
cable itself used on AC-4 supplies? I have had a supply needing a cable
lying around here for a long time and it is unusable. I'd like to buy
some
grey jacketed cable with enough wires of the correct size to replace
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wires on it as I always felt someday I'd find an appropriate cable to
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Lee, w0vt

[Non-text portions of this message have been removed]

1849. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 20:05:28 UTC
From: g4jss@tiscali.co.uk
Topic: 1801 Message: 1849

Hi

Whilst we are on the subject of AC4 does anyone know if the Heathkitt shop is up and running.

Tried to get an AC4R 5 or 6 weeks ago but he'd had an accident (crushed his hands) and would be out of commission for a few weeks.

73

Vic

----Original Message----
From: kris@...
Date: 16/02/2009 18:33
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: AC-4 Cable

Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.

Kris (KA2OIG) Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734
----- Original Message -----
From: pulsarair
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 12:49 PM
Subject: [DrakeRadio] Re: AC-4 Cable

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cable itself used on AC-4 supplies? I have had a supply needing a cable
lying around here for a long time and it is unusable. I'd like to buy
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grey jacketed cable with enough wires of the correct size to replace
the bad
one. Internal wire colors could be anything. I never "bundled"
discreet
wires on it as I always felt someday I'd find an appropriate cable to
use as
a replacement with the proper looking jacket. That never happened.

Lee, w0vt

[Non-text portions of this message have been removed]

For Pit Babes to Test Drives - http://www.tiscali.co.uk/motoring/

[Non-text portions of this message have been removed]

1850. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 20:23:56 UTC
From: LEE BAHR
Topic: 1801 Message: 1850

I think his wife is shipping what he has on hand. His web site says he is OK on AC-4R boards.

Lee, w0vt

----- Original Message -----
From: g4jss@...
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 2:05 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

Hi

Whilst we are on the subject of AC4 does anyone know if the Heathkitt shop is up and running.

Tried to get an AC4R 5 or 6 weeks ago but he'd had an accident (crushed his hands) and would be out of commission for a few weeks.

73

Vic

----Original Message----
From: kris@...
Date: 16/02/2009 18:33
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Re: AC-4 Cable

Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.

Kris (KA2OIG) Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734
----- Original Message -----
From: pulsarair
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 12:49 PM
Subject: [DrakeRadio] Re: AC-4 Cable

Does anyone have a source for the power supply
cable itself used on AC-4 supplies? I have had a supply needing a cable
lying around here for a long time and it is unusable. I'd like to buy
some
grey jacketed cable with enough wires of the correct size to replace
the bad
one. Internal wire colors could be anything. I never "bundled"

discreet
wires on it as I always felt someday I'd find an appropriate cable to
use as
a replacement with the proper looking jacket. That never happened.

Lee, w0vt

[Non-text portions of this message have been removed]

For Pit Babes to Test Drives - http://www.tiscali.co.uk/motoring/
_____

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1851. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 22:21:00 UTC
From: Jim Shorney
Topic: 1801 Message: 1851

On Mon, 16 Feb 2009 17:49:49 -0000, pulsarair wrote:

>
>Does anyone have a source for the power supply
>cable itself used on AC-4 supplies?

Check with an elevator repair company. They may have some short lengths
of multi-conductor control cable laying around. Be aware that if the
wire guage is too small to carry the load of the filament supply and
the AC primary, you will need to parallel conductors. DC breakdown
rating of the insulation is also a concern.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1852. TR7 RIT/PBT lamps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-16 22:33:07 UTC
From: Jim Chaggaris
Topic: 1852 Message: 1852

Greetings All!

My PBT bulb went south and need to find another one. I think it's a "Wheat" bulb (14V). Anyone know of a good source or has anyone been able to find an LED substitute? Also, those pesky bulb holders are deteriorating so an LED substitute would be desirable.

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

1853. TR-7 10V Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 00:30:58 UTC
From: Al Scanandoah
Topic: 1853 Message: 1853

Has anyone implemented a better circuit? Perhaps it's just a bad potentiometer or other component, but the 10V rail in my rig seems to drift excessively. Subsequently, everything else gets knocked out of whack as well.

73 - Al, K2ZN

1854. Re: [DrakeRadio] TR-7 10V Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 01:51:44 UTC
From: Jim Shorney
Topic: 1853 Message: 1854

On Tue, 17 Feb 2009 00:30:58 -0000, Al Scanandoah wrote:

>Has anyone implemented a better circuit? Perhaps it's just a bad
>potentiometer or other component, but the 10V rail in my rig seems to
>drift excessively. Subsequently, everything else gets knocked out of
>whack as well.

The 10v regulator uses the venerable 723 chip, and should be pretty
stable. The pots, on the other hand, leave something to be desired.
There's a writeup on the internet from a ham who replaced all the pots
with 10-turn trimmers. A very good idea. You could try cleaning the pot
with alchohol and resetting.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1855. Re: [DrakeRadio] TR7 RIT/PBT lamps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 01:55:57 UTC
From: Jim Shorney
Topic: 1852 Message: 1855

On Mon, 16 Feb 2009 16:33:07 -0600, Jim Chaggaris wrote:

>My PBT bulb went south and need to find another one. I think it's a "Wheat"
>bulb (14V). Anyone know of a good source or has anyone been able to find an
>LED substitute? Also, those pesky bulb holders are deteriorating so an LED
>substitute would be desirable.

A generic 12v (or 14 v) lamp, nothing special. I like the Radio Shack
"12 Volt Micro Lamps", they seem to have a phenomenal life in anything
I use them in. They have tinned wire leads, so you will have to do the
solder-and-heatshrink thing.

LEDs are doable, with suitable current limiting resistors. Should fit
right in. The last time I checked, it was a buyer's market on the 'bay
for high brightness Chinese LEDs of just about any color you want. You
could go nuts and make them all blue.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1856. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 03:48:17 UTC
From: LEE BAHR
Topic: 1801 Message: 1856

Thanks, Jim.

Lee

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 4:21 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

On Mon, 16 Feb 2009 17:49:49 -0000, pulsarair wrote:

>
>Does anyone have a source for the power supply
>cable itself used on AC-4 supplies?

Check with an elevator repair company. They may have some short lengths
of multi-conductor control cable laying around. Be aware that if the
wire guage is too small to carry the load of the filament supply and
the AC primary, you will need to parallel conductors. DC breakdown
rating of the insulation is also a concern.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

1857. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 03:48:45 UTC
From: LEE BAHR
Topic: 1801 Message: 1857

Thanks, Kris.

Lee, w0vt

----- Original Message -----
From: Kris Merschrod
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 12:33 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.

Kris (KA2OIG) Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734
----- Original Message -----
From: pulsarair
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 12:49 PM
Subject: [DrakeRadio] Re: AC-4 Cable

Does anyone have a source for the power supply
cable itself used on AC-4 supplies? I have had a supply needing a cable
lying around here for a long time and it is unusable. I'd like to buy
some
grey jacketed cable with enough wires of the correct size to replace
the bad
one. Internal wire colors could be anything. I never "bundled"
discreet
wires on it as I always felt someday I'd find an appropriate cable to
use as
a replacement with the proper looking jacket. That never happened.

Lee, w0vt

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1858. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 04:05:24 UTC
From: Jim Shorney
Topic: 1801 Message: 1858

I would check on the DC voltage ratings on any rotor cable. You want,
probably, 1 KV breakdown resistance at MINIMUM for the high voltage
feeds.

On Mon, 16 Feb 2009 21:48:45 -0600, LEE BAHR wrote:

>Thanks, Kris.
>
> ----- Original Message -----
> From: Kris Merschrod
>
> Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs
type.

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1859. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 04:05:57 UTC
From: LEE BAHR
Topic: 1801 Message: 1859

Good point. I'll check, but I'll bet they don't know or have any specs on rotor cable.

Lee, w0vt
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 10:05 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

I would check on the DC voltage ratings on any rotor cable. You want,
probably, 1 KV breakdown resistance at MINIMUM for the high voltage
feeds.

On Mon, 16 Feb 2009 21:48:45 -0600, LEE BAHR wrote:

>Thanks, Kris.
>
> ----- Original Message -----
> From: Kris Merschrod
>
> Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs
type.

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

1860. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 04:06:23 UTC
From: Mike-K5VSE
Topic: 1801 Message: 1860

You might want to look for an old Heath HP23 cable and just change out the connectors. Should carry the current with no problem.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

1861. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 04:42:08 UTC
From: LEE BAHR
Topic: 1801 Message: 1861

Thanks, Mike. This might be hard to find. I'll look.

Lee, w0vt

----- Original Message -----
From: Mike-K5VSE
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 16, 2009 10:06 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

You might want to look for an old Heath HP23 cable and just change out the connectors. Should carry the current with no problem.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1862. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 15:03:05 UTC
From: Garey Barrell
Topic: 1801 Message: 1862

I THINK most multiconductor cable used as rotor cable is specified as 600V insulation, which would make 1200V from conductor to conductor. Should be fine barring physical damage. Of course you have the external sheath to add to any individual conductor's insulation for "outside the cable" protection.

I also believe that those numbers are guaranteed breakdown, meaning there is an additional safety factor. The highest voltage in an AC-4 is ~700VDC, so should be well in range. All these numbers are for good Belden cable, polyvinyl junk from China is another story.

Collins guys have the problem of 1000V plus unloaded B+, which is why the "blue" connectors are necessary on the 32S-x transmitters.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> I would check on the DC voltage ratings on any rotor cable. You want,
> probably, 1 KV breakdown resistance at MINIMUM for the high voltage
> feeds.
>
> On Mon, 16 Feb 2009 21:48:45 -0600, LEE BAHR wrote:
>
>
>> Thanks, Kris.
>>
>> ----- Original Message -----
>> From: Kris Merschrod
>>
>> Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.
>>
>

1863. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 15:13:27 UTC
From: Jim Shorney
Topic: 1801 Message: 1863

On Tue, 17 Feb 2009 10:03:05 -0500, Garey Barrell wrote:

>All these numbers are for good
>Belden cable, polyvinyl junk from China is another story.
>
>Collins guys have the problem of 1000V plus unloaded B+, which is why
>the "blue" connectors are necessary on the 32S-x transmitters.

Garey, how the heck do you KNOW all this stuff??? :)

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1864. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 15:28:39 UTC
From: LEE BAHR
Topic: 1801 Message: 1864

Thanks, Garey. I figured such was probably the case. The Wire Man sells 2-12 plus 6-16 and also 2-14 plus 6-18 rotor cable. I am waiting for a reply as to outside diameter of these cables.

Buying multiconductor cable from places like Mouser, etc are crazy as they sell in 500 to 1000 foot spools. At least The Wire Man will sell by the foot.

Lee, w0vt

---- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, February 17, 2009 9:03 AM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

I THINK most multiconductor cable used as rotor cable is specified as 600V insulation, which would make 1200V from conductor to conductor. Should be fine barring physical damage. Of course you have the external sheath to add to any individual conductor's insulation for "outside the cable" protection.

I also believe that those numbers are guaranteed breakdown, meaning there is an additional safety factor. The highest voltage in an AC-4 is ~700VDC, so should be well in range. All these numbers are for good Belden cable, polyvinyl junk from China is another story.

Collins guys have the problem of 1000V plus unloaded B+, which is why the "blue" connectors are necessary on the 32S-x transmitters.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> I would check on the DC voltage ratings on any rotor cable. You want,
> probably, 1 KV breakdown resistance at MINIMUM for the high voltage
> feeds.
>
> On Mon, 16 Feb 2009 21:48:45 -0600, LEE BAHR wrote:
>
>
>> Thanks, Kris.
>>
>> ----- Original Message -----
>> From: Kris Merschrod

>>
>> Why not use antenna rotor cable? It comes in grey - use the heavy duty for long runs type.
>>
>

[Non-text portions of this message have been removed]

1865. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 15:30:25 UTC
From: Garey Barrell
Topic: 1801 Message: 1865

Jim Shorney wrote:
> On Tue, 17 Feb 2009 10:03:05 -0500, Garey Barrell wrote:
>
>
>> All these numbers are for good
>> Belden cable, polyvinyl junk from China is another story.
>>
>> Collins guys have the problem of 1000V plus unloaded B+, which is why
>> the "blue" connectors are necessary on the 32S-x transmitters.
>>
>
>
> Garey, how the heck do you KNOW all this stuff??? :)
>
>

Just don't ask me what I had for lunch yesterday!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1866. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 16:09:36 UTC
From: Victor Waddington
Topic: 606 Message: 1866

Hello
Mentioned earlier that I had a dead T-4XC (knew it was dead when I bought it) so have not tried connecting it up.
Done a few resistance checks as per the handbook - need to ensure that the DC cct OK first.
V1 - 3 OK but when I come to V4 (driver) I do not correspond to the resistance chart in the handbook on pins 1 & 2. On pin 1 I get a reading of 10k but the handbook tells me I should have infinity. I can't figure that as R136 (10k)is connected to pin 1 and ground. So how do we get infinity?
Pin 2 gives me a reading of 58k but the chart says 97k. How do we arrive at that?
Anyone help, please.
Have a lot of other questions as well but it will be better to deal with one thing at a time.
73
Vic

1867. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 16:14:23 UTC
From: Garey Barrell
Topic: 606 Message: 1867

Vic -

s/n??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hello
> Mentioned earlier that I had a dead T-4XC (knew it was dead when I
> bought it) so have not tried connecting it up.
> Done a few resistance checks as per the handbook - need to ensure that
> the DC cct OK first.
> V1 - 3 OK but when I come to V4 (driver) I do not correspond to the
> resistance chart in the handbook on pins 1 & 2. On pin 1 I get a
> reading of 10k but the handbook tells me I should have infinity. I
> can't figure that as R136 (10k)is connected to pin 1 and ground. So
> how do we get infinity?
> Pin 2 gives me a reading of 58k but the chart says 97k. How do we
> arrive at that?
> Anyone help, please.
> Have a lot of other questions as well but it will be better to deal
> with one thing at a time.
> 73
> Vic
>
>

1868. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 16:36:14 UTC
From: Jim Shorney
Topic: 1801 Message: 1868

On Tue, 17 Feb 2009 10:30:25 -0500, Garey Barrell wrote:

>Just don't ask me what I had for lunch yesterday!!

Ummm ... lunch? Uh-oh.

73

-Jim (where did I put that sliding spanner?)

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1869. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 16:37:57 UTC
From: Garey Barrell
Topic: 606 Message: 1869

Vic -

See below....

Victor Waddington wrote:
> V1 - 3 OK but when I come to V4 (driver) I do not correspond to the
> resistance chart in the handbook on pins 1 & 2. On pin 1 I get a
> reading of 10k but the handbook tells me I should have infinity. I
> can't figure that as R136 (10k)is connected to pin 1 and ground. So
> how do we get infinity?
>

That's an error. Obviously should be 10k.

> Pin 2 gives me a reading of 58k but the chart says 97k. How do we
> arrive at that?
>

It will read 58k IF the TRANSCEIVE switch is in SPOT.

73, Garey - K4OAH
Glen Allen, VA

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<www.k4oah.com>

1870. Re: [DrakeRadio] TR-7 10V Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 17:00:49 UTC
From: wctaylor@juno.com
Topic: 1853 Message: 1870

Jim,

I'm the guy that replaced all of the pots on the regulator board. My TR7A has worked very well since I did it last year. By switching to 10 turn pots it made setting the 10 volts and the offset frequencies very easy and precise. I haven't measured anything since I did it, and haven't had any comments about being off freq or noticed any problems with drift or frequency related errors. I forwarded the info and I think the pictures to one of the guys that maintains a web site on the Drakes. If you need the part numbers I'll dig them up and send them to you or anyone who would like them.

Good luck and 73,
Bill Taylor
KD4LXC

_____
Thinking of a life with religion? Click here to find a religious school near you.
http://thirdpartyoffers.juno.com/TGL2141/fc/PnY6rw3gXOBb40xKYh1yjfxN6xSX94OO6bAALcMBsOttfK7skqT9u/

1871. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 17:25:03 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 1871

Hi Garey

I'm pleased that the book is in error re the 10k. I'm also a bit concerned about the reliability of that chart. I think it was V10 where it says that pin 9 should be 0 but in fact there is no connection.

Now back to the other problem re V4, pin 2. It wasn't in spot and no matter which position I put it in I get a reading of 58K. Done a quick check on the rotary switch and that seems OK.

Vic

----Original Message----
From: k4oah@...
Date: 17/02/2009 16:37
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

See below....

Victor Waddington wrote:
> V1 - 3 OK but when I come to V4 (driver) I do not correspond to the
> resistance chart in the handbook on pins 1 & 2. On pin 1 I get a
> reading of 10k but the handbook tells me I should have infinity. I
> can't figure that as R136 (10k)is connected to pin 1 and ground. So
> how do we get infinity?
>

That's an error. Obviously should be 10k.

> Pin 2 gives me a reading of 58k but the chart says 97k. How do we
> arrive at that?
>

It will read 58k IF the TRANSCEIVE switch is in SPOT.

73, Garey - K4OAH
Glen Allen, VA

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<www.k4oah.com>

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---

[Non-text portions of this message have been removed]

1872. Re: [DrakeRadio] TR-7 10V Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 17:31:31 UTC
From: Jim Shorney
Topic: 1853 Message: 1872

Hi Bill,

On Tue, 17 Feb 2009 11:00:49 -0600, wctaylor@... wrote:

>I'm the guy that replaced all of the pots on the regulator board. My TR7A
>has worked very well since I did it last year. By switching to 10 turn
>pots it made setting the 10 volts and the offset frequencies very easy
>and precise. I haven't measured anything since I did it, and haven't had
>any comments about being off freq or noticed any problems with drift or
>frequency related errors. I forwarded the info and I think the pictures
>to one of the guys that maintains a web site on the Drakes. If you need
>the part numbers I'll dig them up and send them to you or anyone who
>would like them.

Actually, it was Carel PA0CMU's page here that I was thinking of:

http://members.ziggo.nl/cmulder/drake.htm#bookmark5

But I knew others had done it as well. It appears that there are two
versions of the PS board, and different pots fit better on each one. I
would be interested in your part numbers, but I'm not sure which
version I have at this point.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1873. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 18:37:27 UTC
From: Garey Barrell
Topic: 606 Message: 1873

Vic -

OK. Well, according to the two version schematics that I am aware of, the 56k resistor R41 is the only resistance between Pin 2 and ground via S-2A (front) which is part of the TRANSCEIVE switch, _WHEN_ and only when, the switch is in SPOT. There are several other paths from the "ground" end of R41 via large value (1M) resistors to the -55V Bias supply bus.

Personally, I have never paid much attention to the Voltage and Resistance charts. I have found quite a few errors, usually the result of engineering changes where the schematic is changed, but the charts are not. Especially since there is no correlation between charts and schematics. I don't think I've ever used the Resistance charts in 50 years of working on Drakes. Once you know the bus voltages, it's pretty easy to estimate what various element voltages "should" be just by looking at the circuit and associated resistors, certainly within 20%. If a voltage looks out of reason, I then check the associated resistors for marked values. Sometimes you have to compensate for parallel resistance paths, but often one end is "open".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> I'm pleased that the book is in error re the 10k. I'm also a bit concerned about the reliability of that chart. I think it was V10 where it says that pin 9 should be 0 but in fact there is no connection.
>
> Now back to the other problem re V4, pin 2. It wasn't in spot and no matter which position I put it in I get a reading of 58K. Done a quick check on the rotary switch and that seems OK.
>
> Vic
>
> ----Original Message----
> From: k4oah@...
> Date: 17/02/2009 16:37
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>

>
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>
>
>
>
>
> Vic -
>
> See below....
>
> Victor Waddington wrote:
>
>> V1 - 3 OK but when I come to V4 (driver) I do not correspond to the
>> resistance chart in the handbook on pins 1 & 2. On pin 1 I get a
>> reading of 10k but the handbook tells me I should have infinity. I
>> can't figure that as R136 (10k)is connected to pin 1 and ground. So
>> how do we get infinity?
>>
>>
>
> That's an error. Obviously should be 10k.
>
>
>> Pin 2 gives me a reading of 58k but the chart says 97k. How do we
>> arrive at that?
>>
>>
>
> It will read 58k IF the TRANSCEIVE switch is in SPOT.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

1874. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 19:09:22 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 1874

Much appreciated Garey. Will have another nose around.

Yep there are certainly discrepancies on the R chart and I would prefer V checks but as things stand I haven't plucked up the courage to apply power - at least until I am reasonably happy that DC path OK. Me and that magic smoke don't get on well!!

Vic

----Original Message----
From: k4oah@...
Date: 17/02/2009 18:37
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC

Vic -

OK. Well, according to the two version schematics that I am aware of, the 56k resistor R41 is the only resistance between Pin 2 and ground via S-2A (front) which is part of the TRANSCEIVE switch, _WHEN_ and only when, the switch is in SPOT. There are several other paths from the "ground" end of R41 via large value (1M) resistors to the -55V Bias supply bus.

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Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

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>
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> Now back to the other problem re V4, pin 2. It wasn't in spot and no matter which position I put it in I get a reading of 58K. Done a quick check on the rotary switch and that seems OK.
>
> Vic
>
> ----Original Message----
> From: k4oah@...
> Date: 17/02/2009 16:37
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC
>
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>
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>
>
>
>
> Vic -
>
> See below....
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> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

>

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---

[Non-text portions of this message have been removed]

1875. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-17 19:59:11 UTC
From: Garey Barrell
Topic: 606 Message: 1875

Vic -

I'll tell you what I do with a "new" T-4X(any).

Start with the AC-4. FIRST step is to check the fuse. I have found everything from a "correct" fuse of 5 or 6.25A (120 VAC) Slow Blow all the way up to a piece of #6 copper wire cut to length! Next, I check all electrolytics with an ESR meter. If you don't have an ESR meter, you can either build a suitable substitute, or last resort is to use an ohmmeter just to determine that each cap section is (A) not shorted, and (B) reads a low resistance, increasing as the cap charges. Check the diodes with an ohmmeter or DMM with a Diode Test function.

The T-4X(any) has a few resistors that need to be checked. The cathode resistors R53, 54 in the Final should be 15 ohm +/- 5%, and preferably within 5% of each other. The screen resistors should be 68 ohm, R50, 51. Check R59 for value and condition, then measure the exact value with a DMM. Check R44 for value and condition. This resistor is often damaged by someone using a metal screwdriver to adjust the trimmer capacitors. Even a momentary short to the chassis from one of these trimmers puts the entire +250V supply across this 1/2W resistor.

Apply power. Check idle current of PA stage as described in manual. Measure voltage drop across R59 with a DMM and calculate the current using the resistance measurement made earlier. Verify meter reading for accuracy. If meter is NOT reading actual current, change resistor R58 (located up on slide switch behind LOAD control) to correct meter reading. Measure resistance of R53 and R54. Measure voltage across each resistor at idle and compare. If these voltages are not within 5% of each other, you have a weak final tube.

TUNE transmitter into a dummy load. Good finals should produce ~130W on 40M in TUNE mode, ~110W on 10M. Less power and/or considerably less power on 15 and 10M indicates soft finals. If a "touch-up" alignment of transmitter doesn't improve, replace finals. Check neutralization per manual. Finals should be of same brand, preferably Sylvania, Zenith, RCA or GE, in that order. Best if both the same brand, and approximately the same "age", i.e., don't mix an old tube and a new tube. If neutralization is way off, or new tubes, check neutralization first on 20M where the null is broader. Then go to 10M where only a slight touch-up should be necessary.

Enjoy!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Much appreciated Garey. Will have another nose around.
>
> Yep there are certainly discrepancies on the R chart and I would prefer V checks but as things stand I haven't plucked up the courage to apply power - at least until I am reasonably happy that DC path OK. Me and that magic smoke don't get on well!!
>
>
>
> Vic
>

1876. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-18 18:54:39 UTC
From: LEE BAHR
Topic: 1801 Message: 1876

Well I ordered some rotor cable from The Wire Man today. What I ordered is a cable just less then 1/2 inch in diameter that contains two #12 wires and also six number 16 wires. I plan to try it out and replace a burned out cable on an unusable AC-4 power supply I have had sitting here for a very long time.

Hopefully it will work. I'll let the list know if it can withstand the high voltage. Hopefully the wire size can also handle supplying filament voltage to a Drake TR-4. I would think #16 can handle the AC primary current for the on-off switch with no problem.

Lee, w0vt

[Non-text portions of this message have been removed]

1877. Re: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-18 19:43:15 UTC
From: Garey Barrell
Topic: 1801 Message: 1877

Lee -

#12 copper wire will drop ~9 mV/ft @ 5.5A, which is the filament current for a TR-4C. So if you have a six foot cable you'll lose about 0.1V of filament voltage. #16 is fine for the primary current.

The only remaining concern would be the voltage breakdown of the insulation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
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>
> Lee, w0vt
>
>

1878. Fw: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-18 23:09:37 UTC
From: LEE BAHR
Topic: 1878 Message: 1878

Subject: Re: [DrakeRadio] Re: AC-4 Cable

I think it will be OK voltage wise but I'll try it and let everyone know how it works out. Thanks for the input.

As a side note, I looked up the 12 pin male and female plug and jack for the power supply and radio. Mouser's p/n for the 12 pin female socket which is on the end of the power supply cable is: p/n 538-38331-8012 . It sells for $7.74. The chassis mounted plug is p/n 538-38330-0112. It is mounted on the radio. It sells for $3.76. The brand is Molex. They do have Cinch-Jones plugs and jacks but they only stock up to 6 pin variants.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 18, 2009 1:43 PM
Subject: Re: [DrakeRadio] Re: AC-4 Cable

Lee -

#12 copper wire will drop ~9 mV/ft @ 5.5A, which is the filament current
for a TR-4C. So if you have a six foot cable you'll lose about 0.1V of
filament voltage. #16 is fine for the primary current.

The only remaining concern would be the voltage breakdown of the insulation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
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>
> Lee, w0vt
>
>

[Non-text portions of this message have been removed]

1879. Re: Fw: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-18 23:22:01 UTC
From: Garey Barrell
Topic: 1878 Message: 1879

Lee -

Check here.....

<http://www.electronicplus.com/content/ProductPage.asp?pagenum=1&lname=&maincat=wc&subcat=wci>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
> Subject: Re: [DrakeRadio] Re: AC-4 Cable
>
>
> I think it will be OK voltage wise but I'll try it and let everyone know how it works out. Thanks for the input.
>
> As a side note, I looked up the 12 pin male and female plug and jack for the power supply and radio. Mouser's p/n for the 12 pin female socket which is on the end of the power supply cable is: p/n 538-38331-8012 . It sells for $7.74. The chassis mounted plug is p/n 538-38330-0112. It is mounted on the radio. It sells for $3.76. The brand is Molex. They do have Cinch-Jones plugs and jacks but they only stock up to 6 pin variants.
>
> Lee, w0vt
>
>

1880. Re: Fw: [DrakeRadio] Re: AC-4 Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 01:47:06 UTC
From: LEE BAHR
Topic: 1878 Message: 1880

Gary and group:

I think the Molex will work just fine. I ordered a couple today. The pin arrangement is the same as for Cinch-Jones. I'll post my findings. They may be here as early as tomorrow, Thursday.

Lee
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 18, 2009 5:22 PM
Subject: Re: Fw: [DrakeRadio] Re: AC-4 Cable

Lee -

Check here.....

<http://www.electronicplus.com/content/ProductPage.asp?pagenum=1&lname=&maincat=wc&subcat=wci>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
> Subject: Re: [DrakeRadio] Re: AC-4 Cable
>
>
> I think it will be OK voltage wise but I'll try it and let everyone know how it works out. Thanks for the input.
>
> As a side note, I looked up the 12 pin male and female plug and jack for the power supply and radio. Mouser's p/n for the 12 pin female socket which is on the end of the power supply cable is: p/n 538-38331-8012 . It sells for $7.74. The chassis mounted plug is p/n 538-38330-0112. It is mounted on the radio. It sells for $3.76. The brand is Molex. They do have Cinch-Jones plugs and jacks but they only stock up to 6 pin variants.
>
> Lee, w0vt
>
>

[Non-text portions of this message have been removed]

1881. T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 08:51:18 UTC
From: Victor Waddington
Topic: 1881 Message: 1881

Hi Anyone have a 15k or 2.5k relay suitable for the T-4XC. Although the original relay was British made it seems they are obsolete and I can't source one from any of the main suppliers.
73
Vic

1882. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 14:54:56 UTC
From: Garey Barrell
Topic: 1881 Message: 1882

Vic -

The Varley relay was a known weak link in the T-4XC. The fine wire
needed to enable 15k impedance was so fragile that the relay core
expanding and contracting with humidity and temperature changes snapped
the wire. The P&B (TYCO) relay R10-E1Y4-V2.5K relay available from
Mouser, Digi-Key and others at 2.5k impedance resolved that problem
and was used for all replacements in T-4XC and TR-4C that originally
used the Varley. It DOES require the addition of a 1.5k, 1W resistor in
series with the coil. Look at the socket for V10, either a 6EV7 or 6FQ7.
Remove the wire connected to Pin 6 and move it to Pin 9, add a 1.5k, 1W
resistor between Pin 6 and Pin 9, and plug in the new relay.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi Anyone have a 15k or 2.5k relay suitable for the T-4XC. Although the
> original relay was British made it seems they are obsolete and I can't
> source one from any of the main suppliers.
> 73
> Vic
>
>
>

1883. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 15:59:53 UTC
From: g4jss@tiscali.co.uk
Topic: 1881 Message: 1883

Hello again, Garey

Thanks again for info and, even better, the way to do it.

Tell you what puzzles me, if the original relay was 15k and you replace it with a 2.5k then I would have thought that a suitable series resistor would have been in the region of 12k. Probably due to current requirements - I don't know.

73

Vic

----Original Message----
From: k4oah@...
Date: 19/02/2009 14:54
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC relay

Vic -

The Varley relay was a known weak link in the T-4XC. The fine wire
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Remove the wire connected to Pin 6 and move it to Pin 9, add a 1.5k, 1W
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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

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> Vic
>
>
>

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---

[Non-text portions of this message have been removed]

1884. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 16:32:14 UTC
From: Garey Barrell
Topic: 1881 Message: 1884

Vic -

Yeah, does make you wonder.... :-)

The situation is that the 15k ohm coil is more "sensitive", i.e., pulls
in with less current than the 2.5k coil. Magnetics is one of those
"black magic" fields, kinda like RF! Interesting is the fact that the
6EV7 tube was originally designed to operate the remote control relay(s)
in early TVs, and was specified for use with a 2.5k relay! With the
1.5k resistor, there is approximately 20 mA through the 2.5k relay coil.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hello again, Garey
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> Tell you what puzzles me, if the original relay was 15k and you replace it with a 2.5k
then I would have thought that a suitable series resistor would have been in the region of
12k. Probably due to current requirements - I don't know.
>
> 73
>
> Vic
>
> ----Original Message----
> From: k4oah@...
> Date: 19/02/2009 14:54
> To: <DrakeRadio@yahoogroups.com>
> Subj: Re: [DrakeRadio] T-4XC relay
>
> Vic -
>
> The Varley relay was a known weak link in the T-4XC. The fine wire
> needed to enable 15k impedance was so fragile that the relay core
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> the wire. The P&B (TYCO) relay R10-E1Y4-V2.5K relay available from
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> and was used for all replacements in T-4XC and TR-4C that originally
> used the Varley. It DOES require the addition of a 1.5k, 1W resistor in
> series with the coil. Look at the socket for V10, either a 6EV7 or 6FQ7.

> Remove the wire connected to Pin 6 and move it to Pin 9, add a 1.5k, 1W
> resistor between Pin 6 and Pin 9, and plug in the new relay.
>
> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>> original relay was British made it seems they are obsolete and I can't
>> source one from any of the main suppliers.
>> 73
>> Vic
>>

1885. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 17:19:38 UTC
From: amfone
Topic: 1881 Message: 1885

Try Relay Specialists. I was able to purchase one from them a few years ago. I think they are still in business.

73 Tim
wb8uhz

--- On Thu, 2/19/09, Victor Waddington <g4jss@...> wrote:
From: Victor Waddington <g4jss@...>
Subject: [DrakeRadio] T-4XC relay
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 19, 2009, 3:51 AM

Hi Anyone have a 15k or 2.5k relay suitable for the T-4XC. Although the

original relay was British made it seems they are obsolete and I can't

source one from any of the main suppliers.

73

Vic

[Non-text portions of this message have been removed]

1886. Re: T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 17:29:24 UTC
From: w5rkl
Topic: 1881 Message: 1886

Garey,

I've been using the same Digi-Key relay in my T4XC for quite a number of years, 7 or 8 years I believe, without the 1.5K resistor. It has worked just fine without the resistor. However, that doesn't mean it's right so I'll add the resistor as you indicated. Good point.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Vic -
>
> The Varley relay was a known weak link in the T-4XC. The fine wire
> needed to enable 15k impedance was so fragile that the relay core
> expanding and contracting with humidity and temperature changes snapped
> the wire. The P&B (TYCO) relay R10-E1Y4-V2.5K relay available from
> Mouser, Digi-Key and others at 2.5k impedance resolved that problem
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> resistor between Pin 6 and Pin 9, and plug in the new relay.
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
>
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> > 73
> > Vic
> >
> >
> >
>

1887. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 17:29:47 UTC
From: g4jss@tiscali.co.uk
Topic: 1881 Message: 1887

Hello Tim

Thanks for info. Tom has just fixed me up.

Cheers

Vic
----Original Message----
From: amfone20000@...
Date: 19/02/2009 17:19
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] T-4XC relay

Try Relay Specialists. I was able to purchase one from them a few years ago. I think they are still in business.

73 Tim
wb8uhz

--- On Thu, 2/19/09, Victor Waddington <g4jss@...> wrote:
From: Victor Waddington <g4jss@...>
Subject: [DrakeRadio] T-4XC relay
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 19, 2009, 3:51 AM

Hi Anyone have a 15k or 2.5k relay suitable for the T-4XC. Although the

original relay was British made it seems they are obsolete and I can't

source one from any of the main suppliers.

73

Vic

[Non-text portions of this message have been removed]

Get up to 50% off Norton Security 2009 - http://www.tiscali.co.uk/securepc
---

[Non-text portions of this message have been removed]

1888. Re: [DrakeRadio] T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 17:31:48 UTC
From: amfone
Topic: 1881 Message: 1888

Great!

73 Tim

--- On Thu, 2/19/09, g4jss@... <g4jss@tiscali.co.uk> wrote:
From: g4jss@... <g4jss@...>
Subject: Re: [DrakeRadio] T-4XC relay
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 19, 2009, 12:29 PM

Hello Tim

Thanks for info. Tom has just fixed me up.

Cheers

Vic

----Original Message----

From: amfone20000@ yahoo.com

Date: 19/02/2009 17:19

To: <DrakeRadio@yahoogro ups.com>

Subj: Re: [DrakeRadio] T-4XC relay

Try Relay Specialists. I was able to purchase one from them a few years ago. I think they are still in business.

73 Tim

wb8uhz

--- On Thu, 2/19/09, Victor Waddington <g4jss@tiscali. co.uk> wrote:

From: Victor Waddington <g4jss@tiscali. co.uk>

Subject: [DrakeRadio] T-4XC relay

To: DrakeRadio@yahoogro ups.com

Date: Thursday, February 19, 2009, 3:51 AM

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original relay was British made it seems they are obsolete and I can't

source one from any of the main suppliers.

73

Vic

[Non-text portions of this message have been removed]

Get up to 50% off Norton Security 2009 - http://www.tiscali. co.uk/securepc

---------- --------- --------- --------- ---

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1889. Re: [DrakeRadio] Re: T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 18:09:46 UTC
From: Garey Barrell
Topic: 1881 Message: 1889

Mike -

I'm sure it would work, (obviously!) :-)

It exceeds the maximum current for the TYCO relay by about 10%, hardly catastrophic. Drake considered it important enough to add the resistor in production and in the late version schematic that shows the 2.5k relay. Omitting the resistor is probably harder on the 6EV7 than it is the relay. Unlike transistors, tubes don't saturate to near 0 volts, so any additional current increases dissipation a lot faster in a tube switch. Omitting the resistor increases the tube dissipation by 2 Watts. Again, obviously not critical, unless you report that you have replaced your 6EV7 three or four times in that 7-8 year period! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Garey,
>
> I've been using the same Digi-Key relay in my T4XC for quite a number
> of years, 7 or 8 years I believe, without the 1.5K resistor. It has
> worked just fine without the resistor. However, that doesn't mean it's
> right so I'll add the resistor as you indicated. Good point.
>
> 73
> Mike
> W5RKL
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Vic -
>>
>> The Varley relay was a known weak link in the T-4XC. The fine wire
>> needed to enable 15k impedance was so fragile that the relay core
>> expanding and contracting with humidity and temperature changes snapped
>> the wire. The P&B (TYCO) relay R10-E1Y4-V2.5K relay available from
>> Mouser, Digi-Key and others at 2.5k impedance resolved that problem
>> and was used for all replacements in T-4XC and TR-4C that originally
>> used the Varley. It DOES require the addition of a 1.5k, 1W resistor in
>> series with the coil. Look at the socket for V10, either a 6EV7 or 6FQ7.
>> Remove the wire connected to Pin 6 and move it to Pin 9, add a 1.5k, 1W
>> resistor between Pin 6 and Pin 9, and plug in the new relay.

>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> Victor Waddington wrote:
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>>> Hi Anyone have a 15k or 2.5k relay suitable for the T-4XC.
>>>
> Although the
>
>>> original relay was British made it seems they are obsolete and I
>>>
> can't
>
>>> source one from any of the main suppliers.
>>> 73
>>> Vic
>>>

1890. Re: T-4XC relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-19 19:09:40 UTC
From: w5rkl
Topic: 1881 Message: 1890

I haven't replaced the tube. However, to help reduce the current drawn
by the tube, I'll use the resistor. 10 cents for a resistor is better
than $10 for a tube.

Thanks Garey.

73
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> I'm sure it would work, (obviously!) :-)
>
> It exceeds the maximum current for the TYCO relay by about 10%, hardly
> catastrophic. Drake considered it important enough to add the resistor
> in production and in the late version schematic that shows the 2.5k
> relay. Omitting the resistor is probably harder on the 6EV7 than it is
> the relay. Unlike transistors, tubes don't saturate to near 0
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> Watts. Again, obviously not critical, unless you report that you have
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> 73, Garey - K4OAH
> Glen Allen, VA
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> <www.k4oah.com>
>
>
>
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> >
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> > W5RKL

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> >
> >> Vic -
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> >> Remove the wire connected to Pin 6 and move it to Pin 9, add a
1.5k, 1W
> >> resistor between Pin 6 and Pin 9, and plug in the new relay.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
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> >>>
> > Although the
> >
> >>> original relay was British made it seems they are obsolete and I
> >>>
> > can't
> >
> >>> source one from any of the main suppliers.
> >>> 73
> >>> Vic
> >>>
>

1891. Dead T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-21 16:38:41 UTC
From: Victor Waddington
Topic: 1891 Message: 1891

Hi all
To continue this saga on reviving my dead T-4XC.
I was trying to get the DC cct. OK before I plugged it in. Thanks to help from this group I was getting ahead famously until I got to the PA stage. According to my schematic there are two 68 ohm resistors on the screens - R50 &51. On one of them I get the correct reading from pin 7. On the other I get infinity. Checked it and found that it wasn't wired to pin 7 but to a pin on the base that would normally be pin 1 - except there ain't no numbered pin 1 - they don't start until 2!
If you make sense of that please let me know why one of these resistors should go to a ghost pin and then via a cap to earth.

Vic

1892. Re: [DrakeRadio] Dead T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-21 16:49:00 UTC
From: Garey Barrell
Topic: 1891 Message: 1892

Vic -

You're making things harder than they are.....

The screen grid of the 6JB6 tube is connected to Pin 7 _AND_ Pin 1...! Because of the mechanical layout of the PA stage, one 68 ohm screen resistor goes to Pin 7 of one tube, and the other 68 ohm resistor goes to Pin 1 of the other tube. Same-O, Same-O.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
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> stage. According to my schematic there are two 68 ohm resistors on the
> screens - R50 &51. On one of them I get the correct reading from pin 7.
> On the other I get infinity. Checked it and found that it wasn't wired
> to pin 7 but to a pin on the base that would normally be pin 1 - except
> there ain't no numbered pin 1 - they don't start until 2!
> If you make sense of that please let me know why one of these resistors
> should go to a ghost pin and then via a cap to earth.
>
> Vic
>
>

1893. Re: [DrakeRadio] Dead T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-21 20:07:44 UTC
From: g4jss@tiscali.co.uk
Topic: 1891 Message: 1893

Hi Garey

Thanks for info. All OK now. It would have helped if the schematic had numbered pin 1 although I should have realised. And (don't laugh) it would also have helped if I had remembered that I had taken the tubes out!!

73

Vic

----Original Message----
From: k4oah@...
Date: 21/02/2009 16:49
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] Dead T-4XC

Vic -

You're making things harder than they are.....

The screen grid of the 6JB6 tube is connected to Pin 7 _AND_ Pin 1...! Because of the mechanical layout of the PA stage, one 68 ohm screen resistor goes to Pin 7 of one tube, and the other 68 ohm resistor goes to Pin 1 of the other tube. Same-O, Same-O.

73, Garey - K4OAH
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Victor Waddington wrote:
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> stage. According to my schematic there are two 68 ohm resistors on the
> screens - R50 &51. On one of them I get the correct reading from pin 7.
> On the other I get infinity. Checked it and found that it wasn't wired
> to pin 7 but to a pin on the base that would normally be pin 1 - except
> there ain't no numbered pin 1 - they don't start until 2!
> If you make sense of that please let me know why one of these resistors
> should go to a ghost pin and then via a cap to earth.
>
> Vic
>
>

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---

[Non-text portions of this message have been removed]

1894. FS/TRADE E-TEK FR-4 TR

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-21 20:31:43 UTC
From: hetman45
Topic: 1894 Message: 1894

Hello,

I now have a E-tek FR-4 TR excess to my needs which I would be will to trade for a FR-4 or any other freq. readout device for the Drake R-4B. I would also sell the FR-4 TR for $225 shipped to the CONUS.It is in very nice original condx. and I have a copy of the manual. 73, Joel AE2JL

1895. Anyone here tell me more about a Drake 2M/220 rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 01:45:31 UTC
From: w3rxo
Topic: 1895 Message: 1895

I have been offered a Drake 2 meter/220 rig, that is not working. No other info on it yet, but will be looking at it later this week when I pick up a dead set of "C" Twins. Were there more than one radio made with this capability? He didn't say if it was mobile or base, I presume mobile, but, who knows? Would it be AM, SSB, FM, CW or any combination of those? If it were to get up and running, is it still a viable radio? Would it have a collectible value?
If anyone is able to point me in the direction of more info, like a webpage about the rig(s) which fit this description, any and all info would be very helpful.
73
Dan

1896. T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 01:50:49 UTC
From: Randy
Topic: 1896 Message: 1896

Is the tune up procedure as shown in the T-4X manual the best procedure? That is, RF Tune for 150ma then dip the plate. Then RF Tune for max plate current making sure the plate current is still dipped. Finally, increase GAIN until plate current no longer increases. It sounds simple, but are there any opinions on this? Any other suggestions or warnings?

Thanks for your help and 73.

Randy - K8HRO

1897. Re: [DrakeRadio] T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 02:06:23 UTC
From: Dan Galligan
Topic: 1896 Message: 1897

After Jeff Covelli did his magic on my "B" Line Twins, he told me that so long as the finals are properly neutralized, it is only necessary to tune for maximum output, but be sure to get the Plate resonant first. Typically, I get the preselect in the right range, set the Load and Plate controls to the approximate setting and then rotate to the tune position. I then VERY quickly get the preselect (Tune) peaked and then the Plate peaked, then the Load, and then rotate back off of the tune position. I'll wait a few seconds, then repeat the process, this time starting with the Plate, and getting maximum output, with the second go-around. I have experienced no problems, and no flattening of the finals using this procedure in several hundred hours of use since the total re-alignment by Jeff, 2 years ago. If this is bad advice, I hope someone here posts the better way to do it, so that I can do it properly. Jeff said it was done the way the book states, originally, because most hams, back then, didn't have wattmeters.
73
Dan
W3RXO
w3rxo@...

On Feb 21, 2009, at 5:50 PM, Randy wrote:

Is the tune up procedure as shown in the T-4X manual the best procedure? That is, RF Tune for 150ma then dip the plate. Then RF Tune for max plate current making sure the plate current is still dipped. Finally, increase GAIN until plate current no longer increases. It sounds simple, but are there any opinions on this? Any other suggestions or warnings?

Thanks for your help and 73.

Randy - K8HRO

Yahoo! Groups Links

Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...

If you don't love it, leave it. Let this.....be your warning, When you're running down my country man, you're walking on the fighting side of me.
Merle Haggard

Every so often the Tree of Liberty must be watered with the Blood of Patriots and Tyrants. That tree is looking awfully thirsty now, and Patriots are too rare these days to waste!
Thomas Jefferson

Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty, nor safety
Benjamin Franklin

Self-reliance is the only road to true freedom, and being one's own person is its ultimate reward.
Patricia Sampson

I would rather be exposed to the inconveniences attending too much liberty than to those attending too small a degree of it.
Thomas Jefferson

Liberty is not a means to a higher political end. It is itself the highest political end.
Lord Acton,

To the protectors, freedom has a flavor, the protected will never know.
Unknown American General

1898. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 03:29:41 UTC
From: Randy
Topic: 1896 Message: 1898

Dan,

Thanks for your suggestions. I like the fact that you take a break in the tune-up to let things cool down. That's something I do when tuning my Kenwood TS-520S. By the way, nice shack as shown on QRZ.

73,

Randy - K8HRO & Harley Rider too!

--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
> After Jeff Covelli did his magic on my "B" Line Twins, he told me that
> so long as the finals are properly neutralized, it is only necessary
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> the total re-alignment by Jeff, 2 years ago. If this is bad advice, I
> hope someone here posts the better way to do it, so that I can do it
> properly. Jeff said it was done the way the book states, originally,
> because most hams, back then, didn't have wattmeters.
> 73
> Dan
> W3RXO
> w3rxo@...

1899. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 03:34:43 UTC
From: Dan Galligan
Topic: 1896 Message: 1899

Thanks!
Dan
W3RXO
w3rxo@...

On Feb 21, 2009, at 7:29 PM, Randy wrote:

Dan,

Thanks for your suggestions. I like the fact that you take a break in
the tune-up to let things cool down. That's something I do when
tuning my Kenwood TS-520S. By the way, nice shack as shown on QRZ.

73,

Randy - K8HRO & Harley Rider too!

--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
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> 73
> Dan
> W3RXO
> w3rxo@...

Yahoo! Groups Links

Dan Galligan
W3RXO
dgalligan60@...
w3rxo@...

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Lord Acton,

To the protectors, freedom has a flavor, the protected will never know.
Unknown American General

1900. Re: [DrakeRadio] Anyone here tell me more about a Drake 2M/220 rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 03:49:29 UTC
From: Jim Shorney
Topic: 1895 Message: 1900

On Sun, 22 Feb 2009 01:45:31 -0000, w3rxo wrote:

>If anyone is able to point me in the direction of more info, like a
>webpage about the rig(s) which fit this description, any and all info
>would be very helpful.

Probably a UV-3:

http://www.dproducts.be/DRAKE_MUSEUM/uv-3.htm

Buy it. If you don't, let me know what he wants for it.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1901. Re: [DrakeRadio] Anyone here tell me more about a Drake 2M/220 rig?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 04:07:29 UTC
From: Dan Galligan
Topic: 1895 Message: 1901

Thanks Jim! I was wondering about it, I had no idea Drake made any 220 gear. I guess I get to see it this week. Fellow says he has the manual, too.
Dan
W3RXO
w3rxo@...

On Feb 21, 2009, at 7:49 PM, Jim Shorney wrote:

On Sun, 22 Feb 2009 01:45:31 -0000, w3rxo wrote:

> If anyone is able to point me in the direction of more info, like a
> webpage about the rig(s) which fit this description, any and all info
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http://www.dproducts.be/DRAKE_MUSEUM/uv-3.htm

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--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

Yahoo! Groups Links

1902. collins meter update a very bad day

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 14:39:33 UTC
From: Mike Shelly
Topic: 1902 Message: 1902

Well, I found a very nice s meter on e-bay. Put it in and looked like it was going to be fine. When I put in the power connector, I must have nort been in correctley and blew up the radio.

Looks like I blew all the filiments and lamps on the 6.3V line. Must have been off one pin.

I hope thats the only damage. Ordered a complete set of tubes and bulbs.

So warning to all s/line owners be careful the key on the rear plug may be worn or broke and bad things can happen.

Mike
WB2KKI

1903. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 16:31:35 UTC
From: Garey Barrell
Topic: 1896 Message: 1903

Whatever procedure you use to tune up, the very _LAST_ thing you
should do is to make SURE the PLATE current is dipped. This is true of
ANY transmitter with a Pi-Net output.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> Dan,
>
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>
> 73,
>
> Randy - K8HRO & Harley Rider too!
>
>
> --- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
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>> 73
>> Dan
>> W3RXO
>> w3rxo@...
>>
>

1904. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 20:52:37 UTC
From: Richard Knoppow
Topic: 1896 Message: 1904

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 22, 2009 8:31 AM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> Whatever procedure you use to tune up, the very _LAST_
> thing you
> should do is to make SURE the PLATE current is dipped.
> This is true of
> ANY transmitter with a Pi-Net output.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

Whoa there, I am not sure you are saying what you intend to here. _Checking_ that the plate is dipped is a good last step but it should be dipped just as soon as drive is applied. The Drake procedure is a good generic one. Namely, set the load for minimum, Apply a minimum of drive and make sure the driver tank is peaked, adjust the plate tuning for a dip. Increase load and re-dip. increase drive until you reach desired plate current and check the plate tuning and load again. Its important to dip the plate early to prevent the tubes from burning up. That's also the reason for doing preliminaty tuning with minimum drive.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1905. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:02:36 UTC
From: Garey Barrell
Topic: 1896 Message: 1905

Richard -

OK. I was referring to the previous message(s) that essentially said to
tune for maximum output and go.....

I guess I should have said the _FIRST_ and _LAST_ thing you should
do is dip the PLATE control.

By the way, the Drake transmitters all limit the screen current which
limits the "off resonance" plate current in TUNE mode. Regardless of
the transmitter, the most important thing is to _keep_ the PLATE
current dipped.

Better?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, February 22, 2009 8:31 AM
> Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure
>
>
>
>> Whatever procedure you use to tune up, the very _LAST_
>> thing you
>> should do is to make SURE the PLATE current is dipped.
>> This is true of
>> ANY transmitter with a Pi-Net output.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
> Whoa there, I am not sure you are saying what you
> intend to here. _Checking_ that the plate is dipped is a
> good last step but it should be dipped just as soon as drive
> is applied. The Drake procedure is a good generic one.

> Namely, set the load for minimum, Apply a minimum of drive
> and make sure the driver tank is peaked, adjust the plate
> tuning for a dip. Increase load and re-dip. increase drive
> until you reach desired plate current and check the plate
> tuning and load again. Its important to dip the plate early
> to prevent the tubes from burning up. That's also the reason
> for doing preliminaty tuning with minimum drive.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>

1906. T-4XB Ballanced Modulator Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:03:43 UTC
From: Richard Knoppow
Topic: 1906 Message: 1906

I am working on a recently aquired T-4XB. I can't null
the carrier. I think this may be due to a bad diode in the
ring modulator but thought I would ask here if anyone else
had had this problem and if there is a common cause for it.
The balance pot and associated resistor network seems to be
OK and I can get equal amounts of RF at the network output
(checking with a scope and 10X probe). Are there any other
likely culprits than the diodes?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1907. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:09:21 UTC
From: Richard Knoppow
Topic: 1896 Message: 1907

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 22, 2009 1:02 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> Richard -
>
> OK. I was referring to the previous message(s) that
> essentially said to
> tune for maximum output and go.........
>
> I guess I should have said the _FIRST_ and _LAST_
> thing you should
> do is dip the PLATE control.
>
> By the way, the Drake transmitters all limit the screen
> current which
> limits the "off resonance" plate current in TUNE mode.
> Regardless of
> the transmitter, the most important thing is to _keep_
> the PLATE
> current dipped.
>
> Better?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
OK, I thought that is probably what you meant. Drake
seems to have done a good job of making their transmitters
foolproof.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1908. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:12:57 UTC
From: Randy
Topic: 1896 Message: 1908

Dan,

The reason I'm concerned about the tune up procedure is that in my case, at least, when I tune up the T-4X per the manual, the resultant plate current in the 75m band (around 3925kHz) is 340ma. The manual specifies it should be between 250 and 320ma. Am I running too much plate current?

73,

Randy - K8HRO

--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
> Thanks!
> Dan
> W3RXO
> w3rxo@...
>
> On Feb 21, 2009, at 7:29 PM, Randy wrote:
>
> Dan,
>
> Thanks for your suggestions. I like the fact that you take a break in
> the tune-up to let things cool down. That's something I do when
> tuning my Kenwood TS-520S. By the way, nice shack as shown on QRZ.
>
> 73,
>
> Randy - K8HRO & Harley Rider too!
>
>
> --- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@> wrote:
> >
> > After Jeff Covelli did his magic on my "B" Line Twins, he told me that
> > so long as the finals are properly neutralized, it is only necessary
> > to tune for maximum output, but be sure to get the Plate resonant
> > first. Typically, I get the preselect in the right range, set the Load
> > and Plate controls to the approximate setting and then rotate to the
> > tune position. I then VERY quickly get the preselect (Tune) peaked and
> > then the Plate peaked, then the Load, and then rotate back off of the
> > tune position. I'll wait a few seconds, then repeat the process, this
> > time starting with the Plate, and getting maximum output, with the
> > second go-around. I have experienced no problems, and no flattening of
> > the finals using this procedure in several hundred hours of use since
> > the total re-alignment by Jeff, 2 years ago. If this is bad advice, I

> > hope someone here posts the better way to do it, so that I can do it
> > properly. Jeff said it was done the way the book states, originally,
> > because most hams, back then, didn't have wattmeters.
> > 73
> > Dan
> > W3RXO
> > w3rxo@
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
> Dan Galligan
> W3RXO
> dgalligan60@...
> w3rxo@...
>
> If you don't love it, leave it. Let this.....be your warning, When
> you're running down my country man, you're walking on the fighting
> side of me.
> Merle Haggard
>
> Every so often the Tree of Liberty must be watered with the Blood of
> Patriots and Tyrants. That tree is looking awfully thirsty now, and
> Patriots are too rare these days to waste!
> Thomas Jefferson
>
> Those who would give up essential liberty to purchase a little
> temporary safety deserve neither liberty, nor safety
> Benjamin Franklin
>
> Self-reliance is the only road to true freedom, and being one's own
> person is its ultimate reward.
> Patricia Sampson
>
> I would rather be exposed to the inconveniences attending too much
> liberty than to those attending too small a degree of it.
> Thomas Jefferson
>
> Liberty is not a means to a higher political end. It is itself the
> highest political end.
> Lord Acton,
>
> To the protectors, freedom has a flavor, the protected will never know.

> Unknown American General
>

1909. Re: [DrakeRadio] T-4XB Ballanced Modulator Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:16:34 UTC
From: Garey Barrell
Topic: 1906 Message: 1909

Richard -

Probably diodes. These units sometimes develop shorts between diodes
and the wall of the can.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> I am working on a recently aquired T-4XB. I can't null
> the carrier. I think this may be due to a bad diode in the
> ring modulator but thought I would ask here if anyone else
> had had this problem and if there is a common cause for it.
> The balance pot and associated resistor network seems to be
> OK and I can get equal amounts of RF at the network output
> (checking with a scope and 10X probe). Are there any other
> likely culprits than the diodes?
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>

1910. Re: [DrakeRadio] T-4XB Ballanced Modulator Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:27:26 UTC
From: Richard Knoppow
Topic: 1906 Message: 1910

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 22, 2009 1:16 PM
Subject: Re: [DrakeRadio] T-4XB Ballanced Modulator Question

> Richard -
>
> Probably diodes. These units sometimes develop shorts
> between diodes
> and the wall of the can.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Richard Knoppow wrote:
>> I am working on a recently aquired T-4XB. I can't
>> null
>> the carrier. I think this may be due to a bad diode in
>> the
>> ring modulator but thought I would ask here if anyone
>> else
>> had had this problem and if there is a common cause for
>> it.
>> The balance pot and associated resistor network seems to
>> be
>> OK and I can get equal amounts of RF at the network
>> output
>> (checking with a scope and 10X probe). Are there any
>> other
>> likely culprits than the diodes?
>>
>>
>> --
>> Richard Knoppow
>> Los Angeles
>> WB6KBL
>> dickburk@...
>>
That's good to know. I took the can off and will do
```

some more trouble shooting in a little while. I did check
the diodes in place with the diode checker function of a Tek
multi-meter. They seem to be OK but you can't really tell
without lifting them. I will fire this up with the can off
and see what happens.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1911. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-22 21:57:26 UTC
From: Garey Barrell
Topic: 1896 Message: 1911

Randy -

Nope, that's fine. Some draw as much as 360 - 400 mA when tuned for maximum output.

Drake issued a "Tuning Alterations" memo to limit the plate current to no more than 340 mA on 160 - 80 - 40 - 20 Meters to comply with revisions to Part 97.73 of the FCC "Purity of Emissions" specification.

Also, the meter shunt (2.7 or 3 ohms @ 1/2W) in these transmitters has a tendency to go up in value with age and/or mistreatment (running Final off-resonance is most common), causing the plate meter to read "high". Aside from misleading the operator about the power he is "really" running, (often the source of the "I'm getting only 30% efficiency with my T-4X(any)". This is no big deal, BUT if the shunt HAS in fact gone up in value, this means the idle current for the PA is also set wrong. This can be serious, because if the idle current is actually set to say 50 mA instead of 70 mA, not only is the dissipation of the PA tubes at idle excessive, the operating point of the stage is also shifted, greatly increasing distortion. So when working on these transmitters, confirm that the meter shunt is what it is supposed to be! Measure it with a good DMM, in-circuit is fine. If it's not within 5% of the marked value, replace it with a 1W ceramic composition resistor. Then measure the actual resistance of the shunt, and then measure the voltage drop across it with the transmitter drawing idle current. Ohms Law will tell you what the REAL current is, and if the meter doesn't read that calculated value, correct it by selecting an appropriate calibration resistor. This resistor is located up on the slide switch centered between the PLATE and LOAD control or behind the LOAD control. This resistor is typically around 200 ohms, but can vary considerably depending upon how accurate your shunt resistor is. Drake only paid less than $1 for this meter, so set it to read accurately at 70 mA as this is the important measurement. It may or may not read 340 mA at 340 mA of actual current, but that is far less important than the idle current.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> Dan,
>
> The reason I'm concerned about the tune up procedure is that in my
> case, at least, when I tune up the T-4X per the manual, the resultant

> plate current in the 75m band (around 3925kHz) is 340ma. The manual
> specifies it should be between 250 and 320ma. Am I running too much
> plate current?
>
> 73,
>
> Randy - K8HRO
>
>
> --- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
>> Thanks!
>> Dan
>> W3RXO
>> w3rxo@...
>>
>> On Feb 21, 2009, at 7:29 PM, Randy wrote:
>>
>> Dan,
>>
>> Thanks for your suggestions. I like the fact that you take a break in
>> the tune-up to let things cool down. That's something I do when
>> tuning my Kenwood TS-520S. By the way, nice shack as shown on QRZ.
>>
>> 73,
>>
>> Randy - K8HRO & Harley Rider too!
>>
>>
>> --- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@> wrote:
>>
>>> After Jeff Covelli did his magic on my "B" Line Twins, he told me that
>>> so long as the finals are properly neutralized, it is only necessary
>>> to tune for maximum output, but be sure to get the Plate resonant
>>> first. Typically, I get the preselect in the right range, set the Load
>>> and Plate controls to the approximate setting and then rotate to the
>>> tune position. I then VERY quickly get the preselect (Tune) peaked and
>>> then the Plate peaked, then the Load, and then rotate back off of the
>>> tune position. I'll wait a few seconds, then repeat the process, this
>>> time starting with the Plate, and getting maximum output, with the
>>> second go-around. I have experienced no problems, and no flattening of
>>> the finals using this procedure in several hundred hours of use since
>>> the total re-alignment by Jeff, 2 years ago. If this is bad advice, I
>>> hope someone here posts the better way to do it, so that I can do it
>>> properly. Jeff said it was done the way the book states, originally,
>>> because most hams, back then, didn't have wattmeters.
>>> 73
>>> Dan
>>> W3RXO
>>> w3rxo@

>>>
>

1912. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 00:27:33 UTC
From: Randy
Topic: 1896 Message: 1912

Gary,

Great stuff. I'll check out the meter shunt asap. I would hate to ruin a pair of $60 finals over a cheap resister. I'll post what I find.

Randy - K8HRO

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Randy -
>
> Nope, that's fine. Some draw as much as 360 - 400 mA when tuned for
> maximum output.
>
> Drake issued a "Tuning Alterations" memo to limit the plate current to
> no more than 340 mA on 160 - 80 - 40 - 20 Meters to comply with
> revisions to Part 97.73 of the FCC "Purity of Emissions" specification.
>
> Also, the meter shunt (2.7 or 3 ohms @ 1/2W) in these transmitters has a
> tendency to go up in value with age and/or mistreatment (running Final
> off-resonance is most common), causing the plate meter to read "high".
> Aside from misleading the operator about the power he is "really"
> running, (often the source of the "I'm getting only 30% efficiency with
> my T-4X(any)". This is no big deal, BUT if the shunt HAS in fact gone
> up in value, this means the idle current for the PA is also set wrong.
> This can be serious, because if the idle current is actually set to say
> 50 mA instead of 70 mA, not only is the dissipation of the PA tubes at
> idle excessive, the operating point of the stage is also shifted,
> greatly increasing distortion. So when working on these transmitters,
> confirm that the meter shunt is what it is supposed to be! Measure it
> with a good DMM, in-circuit is fine. If it's not within 5% of the
> marked value, replace it with a 1W ceramic composition resistor. Then
> measure the actual resistance of the shunt, and then measure the voltage
> drop across it with the transmitter drawing idle current. Ohms Law will
> tell you what the REAL current is, and if the meter doesn't read that
> calculated value, correct it by selecting an appropriate calibration
> resistor. This resistor is located up on the slide switch centered
> between the PLATE and LOAD control or behind the LOAD control. This
> resistor is typically around 200 ohms, but can vary considerably
> depending upon how accurate your shunt resistor is. Drake only paid
> less than $1 for this meter, so set it to read accurately at 70 mA as
> this is the important measurement. It may or may not read 340 mA at

340
> mA of actual current, but that is far less important than the idle
current.
>
> 73, Garey - K4OAH
> Glen Allen, VA

1913. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 03:13:43 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 1913

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

1914. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 03:32:34 UTC
From: Richard Knoppow
Topic: 1896 Message: 1914

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 22, 2009 1:57 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> Randy -
>
> Nope, that's fine. Some draw as much as 360 - 400 mA when
> tuned for
> maximum output.
>
> Drake issued a "Tuning Alterations" memo to limit the
> plate current to
> no more than 340 mA on 160 - 80 - 40 - 20 Meters to comply
> with
> revisions to Part 97.73 of the FCC "Purity of Emissions"
> specification.
>
> Also, the meter shunt (2.7 or 3 ohms @ 1/2W) in these
> transmitters has a
> tendency to go up in value with age and/or mistreatment
> (running Final
> off-resonance is most common), causing the plate meter to
> read "high".
> Aside from misleading the operator about the power he is
> "really"
> running, (often the source of the "I'm getting only 30%
> efficiency with
> my T-4X(any)". This is no big deal, BUT if the shunt HAS
> in fact gone
> up in value, this means the idle current for the PA is
> also set wrong.
> This can be serious, because if the idle current is
> actually set to say
> 50 mA instead of 70 mA, not only is the dissipation of the
> PA tubes at
> idle excessive, the operating point of the stage is also
> shifted,
> greatly increasing distortion. So when working on these
> transmitters,
> confirm that the meter shunt is what it is supposed to be!
> Measure it
> with a good DMM, in-circuit is fine. If it's not within
> 5% of the
```

> marked value, replace it with a 1W ceramic composition
> resistor. Then
> measure the actual resistance of the shunt, and then
> measure the voltage
> drop across it with the transmitter drawing idle current.
> Ohms Law will
> tell you what the REAL current is, and if the meter
> doesn't read that
> calculated value, correct it by selecting an appropriate
> calibration
> resistor. This resistor is located up on the slide
> switch centered
> between the PLATE and LOAD control or behind the LOAD
> control. This
> resistor is typically around 200 ohms, but can vary
> considerably
> depending upon how accurate your shunt resistor is.
> Drake only paid
> less than $1 for this meter, so set it to read accurately
> at 70 mA as
> this is the important measurement. It may or may not read
> 340 mA at 340
> mA of actual current, but that is far less important than
> the idle current.
>
> 73, Garey - K4OAH
> Glen Allen, VA

I'm glad you mentioned the resistor. In my T-4XB its
marked 3.3 Ohms but measures about 4.0 Ohms measured
correcting for the lead resistance of the meter. Actually
two different meters. I could re-check it using a bridge but
I think its really off. Time to search for a 3.3 Ohm
resistor.
BTW, since you mention efficiency what sort of
efficiency should I expect for normal operation. That is,
how much power out into a dummy load?
Another observation, my TX seems to put out maximum
power with the load knob at 0, i.e., the load capacitor at
maximum capacitance. The load is is the dummy in a MFJ Versa
Tuner which measures exactly 50 Ohms on DC. Again, is this
normal behavior?
Another also, I took the can off the ring modulator
(very easy to do). I checked the diodes without lifting
them, all seem good, or at least the same. This was done
with the diode check function of a Tektronix DMM-254. The
operation with the can off is the same as with it on. That
is, when I follow the instruction book procedure for nulling
the carrier the output as indicated on the output meter is
rather high and I can't null it. Minimum carrier is with the

adjusting pot all the way CW. Measuring the RF out of the pot I can get exactly equal amounts of RF on the two resistors that feed the ring with the pot somewhere near center. An ohm meter check also shows the pot to be behaving normally. I have not checked the values of the three padding resistors, that's next, but the fact that the RF can be made the same on both sides suggests they can not be far off. I also tried the adjusting cap. It makes a very small difference.
I wonder if there are any other known problems. I will also replace the fixed caps in the circuit if there are no other suggestions.
BTW, the original diodes appear to be low capacitance Germanium types. Has anyone tried Silicon switching diodes? Do they work properly?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1915. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 04:11:25 UTC
From: Garey Barrell
Topic: 1896 Message: 1915

See Below...

Richard Knoppow wrote:
>
> I'm glad you mentioned the resistor. In my T-4XB its
> marked 3.3 Ohms but measures about 4.0 Ohms measured
> correcting for the lead resistance of the meter. Actually
> two different meters. I could re-check it using a bridge but
> I think its really off. Time to search for a 3.3 Ohm
> resistor.
>

All T-4XB documentation shows a 2.7 ohm meter shunt. A 3.3 ohm resistor would be dissipating 0.4W at 350 mA of plate current while a 2.7 only dissipates 0.33W. Even the 2.7 is somewhat under rated. I usually replace them with a 1W "flameproof" wirewound. MUCH more stable over time, but they can be a little hard to find these days. The actual value isn't all that important, since the meter calibration is done with the series resistor. It's interesting because the T-4X used 3.3 ohm and the T-4XC used 3.3 ohm, but the "B" used 2.7 ohm.......
> BTW, since you mention efficiency what sort of
> efficiency should I expect for normal operation. That is,
> how much power out into a dummy load?
>
The meter is obviously measuring cathode current, so includes screen current. Typically 50 - 55% of "cathode" power input.
> Another observation, my TX seems to put out maximum
> power with the load knob at 0, i.e., the load capacitor at
> maximum capacitance. The load is is the dummy in a MFJ Versa
> Tuner which measures exactly 50 Ohms on DC. Again, is this
> normal behavior?
>

That is typical for the bottom of 80M and 160M. The higher bands usually come out around 4-5 on the LOAD control for a 50 ohm, j0 load.
> Another also, I took the can off the ring modulator
> (very easy to do). I checked the diodes without lifting
> them, all seem good, or at least the same. This was done
> with the diode check function of a Tektronix DMM-254. The
> operation with the can off is the same as with it on. That
> is, when I follow the instruction book procedure for nulling
> the carrier the output as indicated on the output meter is
> rather high and I can't null it. Minimum carrier is with the
> adjusting pot all the way CW. Measuring the RF out of the
> pot I can get exactly equal amounts of RF on the two
> resistors that feed the ring with the pot somewhere near

> center. An ohm meter check also shows the pot to be behaving
> normally. I have not checked the values of the three padding
> resistors, that's next, but the fact that the RF can be made
> the same on both sides suggests they can not be far off. I
> also tried the adjusting cap. It makes a very small
> difference.
>

I suspect you have a leaky cap at C135, OR someone has been spraying
"contact cleaner" crap all over switch S-1C causing enough leakage of DC
to unbalance the "balanced" modulator. You should have NO DC on the AF
input to the BalMod, except in CW or AM modes.
> I wonder if there are any other known problems. I will
> also replace the fixed caps in the circuit if there are no
> other suggestions.
>
Probably OK, see above. Sounds like the RF inputs are balanced.
> BTW, the original diodes appear to be low capacitance
> Germanium types. Has anyone tried Silicon switching diodes?
> Do they work properly?
>

If you must replace them, I'd suggest Schottky diodes such as 1N5711.
That's about the closest we can come to Germanium these days. IN270s
are good, but hard to find.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1916. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 06:02:38 UTC
From: Richard Knoppow
Topic: 1896 Message: 1916

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 22, 2009 8:11 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> See Below...
>
>
> Richard Knoppow wrote:
>>
>> I'm glad you mentioned the resistor. In my T-4XB its
>> marked 3.3 Ohms but measures about 4.0 Ohms measured
>> correcting for the lead resistance of the meter. Actually
>> two different meters. I could re-check it using a bridge
>> but
>> I think its really off. Time to search for a 3.3 Ohm
>> resistor.
>>
>
> All T-4XB documentation shows a 2.7 ohm meter shunt. A
> 3.3 ohm resistor
> would be dissipating 0.4W at 350 mA of plate current while
> a 2.7 only
> dissipates 0.33W. Even the 2.7 is somewhat under rated.
> I usually
> replace them with a 1W "flameproof" wirewound. MUCH more
> stable over
> time, but they can be a little hard to find these days.
> The actual
> value isn't all that important, since the meter
> calibration is done with
> the series resistor. It's interesting because the T-4X
> used 3.3 ohm and
> the T-4XC used 3.3 ohm, but the "B" used 2.7 ohm.......
>> BTW, since you mention efficiency what sort of
>> efficiency should I expect for normal operation. That is,
>> how much power out into a dummy load?
>>
> The meter is obviously measuring cathode current, so
> includes screen
> current. Typically 50 - 55% of "cathode" power input.
>> Another observation, my TX seems to put out maximum
>> power with the load knob at 0, i.e., the load capacitor
>> at
```

>> maximum capacitance. The load is is the dummy in a MFJ
>> Versa
>> Tuner which measures exactly 50 Ohms on DC. Again, is
>> this
>> normal behavior?
>>
>
> That is typical for the bottom of 80M and 160M. The
> higher bands
> usually come out around 4-5 on the LOAD control for a 50
> ohm, j0 load.
>> Another also, I took the can off the ring modulator
>> (very easy to do). I checked the diodes without lifting
>> them, all seem good, or at least the same. This was done
>> with the diode check function of a Tektronix DMM-254. The
>> operation with the can off is the same as with it on.
>> That
>> is, when I follow the instruction book procedure for
>> nulling
>> the carrier the output as indicated on the output meter
>> is
>> rather high and I can't null it. Minimum carrier is with
>> the
>> adjusting pot all the way CW. Measuring the RF out of the
>> pot I can get exactly equal amounts of RF on the two
>> resistors that feed the ring with the pot somewhere near
>> center. An ohm meter check also shows the pot to be
>> behaving
>> normally. I have not checked the values of the three
>> padding
>> resistors, that's next, but the fact that the RF can be
>> made
>> the same on both sides suggests they can not be far off.
>> I
>> also tried the adjusting cap. It makes a very small
>> difference.
>>
>
> I suspect you have a leaky cap at C135, OR someone has
> been spraying
> "contact cleaner" crap all over switch S-1C causing enough
> leakage of DC
> to unbalance the "balanced" modulator. You should have NO
> DC on the AF
> input to the BalMod, except in CW or AM modes.
>> I wonder if there are any other known problems. I
>> will
>> also replace the fixed caps in the circuit if there are
>> no
>> other suggestions.

>>
> Probably OK, see above. Sounds like the RF inputs are
> balanced.
>> BTW, the original diodes appear to be low
>> capacitance
>> Germanium types. Has anyone tried Silicon switching
>> diodes?
>> Do they work properly?
>>
>
> If you must replace them, I'd suggest Schottky diodes such
> as 1N5711.
> That's about the closest we can come to Germanium these
> days. IN270s
> are good, but hard to find.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
Thanks you so much, thats all very useful and I will
follow up on it. I am anxious to get this thing on the air.
I was first licensed in the early 1960s and had a lapse of
some thirty years. I got itchy and got an extra-class and
managed to get my original call back.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1917. Re: T-4XB Ballanced Modulator Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 13:09:57 UTC
From: tjb813
Topic: 1906 Message: 1917

I have had the same problem with my T4xB and TR-3. It was strange that I could balance, but not null. Both times I checked the components the same way and found them to be ok. It wound up being a bad cap both times. In the TR-3, it was a small trimmer. I dissassembled it and cleaned it. That worked. In the t4xb it a small fixed cap. With the age of the radio, caps and resistors are mostt suspect.
Good luck, best regards. KD8CN

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
> I am working on a recently aquired T-4XB. I can't null
> the carrier. I think this may be due to a bad diode in the
> ring modulator but thought I would ask here if anyone else
> had had this problem and if there is a common cause for it.
> The balance pot and associated resistor network seems to be
> OK and I can get equal amounts of RF at the network output
> (checking with a scope and 10X probe). Are there any other
> likely culprits than the diodes?
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

1918. Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 18:04:43 UTC
From: querencias
Topic: 1918 Message: 1918

Gents,

how might one clean up the corroded and rusted chassis on the drake units, the 2B and R4B receivers, without destroying the lettering?

Grant KT6L

1919. Re: [DrakeRadio] Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 18:52:26 UTC
From: LEE BAHR
Topic: 1918 Message: 1919

Grant:

This is a real problem. I would say if it really has to look great, buy another radio. The lettering is the least of your problem. That said, the problem is many of these radios have damaged metal. Cleaning the chassis will not make many of these radios look much better then before they were cleaned. Many have had the copper "bubble up" as the steel below the copper has rusted. Some have tried spraying a copper colored paint over the chassis including me. The look is terrible as the surface looks as rough as the moon. I think it looks worse then no spray at all. It looks cheap. Removing all the parts and having the chassis re-plated is probably out of the question for many obvious reasons. I have often thought about spraying the chassis with a thick self leveling polyurethane and then spraying the chassis with a copper paint coating and then relabeling the chassis with rub on letters supplied by a toy train hobby shop. I have not tried this idea. I am sure doing this will still not make the chassis look great. I can't emphasize enough how bad a chassis will look by just spray painting over the rust. I see no way of sanding the chassis down before a painting as there are too many areas you just can't get to to sand down. Doing all this would really take a lot of time and you would still have a radio not looking all that good.

I have come to the conclusion, the best thing to do is just clean the chassis and live with the situation or get a different radio. Sorry I could not be more helpful. Maybe others know something I do no know.

73,

Lee, w0vt

----- Original Message -----
From: querencias
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 23, 2009 12:04 PM
Subject: [DrakeRadio] Chassis cleanup

Gents,

how might one clean up the corroded and rusted chassis on the drake
units, the 2B and R4B receivers, without destroying the lettering?

Grant KT6L

[Non-text portions of this message have been removed]

1920. Re: [DrakeRadio] Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 19:27:39 UTC
From: DALE PARFITT
Topic: 1918 Message: 1920

I have to agree on copper chassis cleanup. My only comment would be that instead of dry transfer lettering- one can make water slip decals a lot faster and the look is more professional.
I used this technique on a RX that is pretty much my version of a solid state 2B with a few more bells and whistles- tone control, homebrew xtal filters and an audio notch filter, 160M coverage. The front panel was first primed with gray primer, sprayed with a Gonset grey auto acrylic and then 3 clear coats of auto acrylic followed by wet sanding with 1200 grit. The look is well beyond silk screening and the wet sanding removes any trace of the decal edges.. But I digress.....
http://www.parelectronics.com/pics/w7zoi14.jpg

[Non-text portions of this message have been removed]

1921. Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 21:20:14 UTC
From: Bob Spooner
Topic: 1921 Message: 1921

The radio is "almost" working in that the receiver controls all have their intended effect, but the receive sensitivity is very low. When I try to transmit, if the microphone is near the speaker I get feedback. The transmit relay does not pull in. By the symptoms, it seems to be a switching problem, but the 10 volt transmit and receive signals sequence properly. I have used Deoxit on the band switch and on the pins for the plug-in boards, and the power supply board voltages are good. Does anyone have an idea of where to look for the problem?

73,

Bob AD3K

[Non-text portions of this message have been removed]

1922. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 21:33:00 UTC
From: Steve Finch
Topic: 1921 Message: 1922

I had a similar problem. I replaced the T/R relay and the problem disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their intended effect, but the receive sensitivity is very low. When I try to transmit, if the microphone is near the speaker I get feedback. The transmit relay does not pull in. By the symptoms, it seems to be a switching problem, but the 10 volt transmit and receive signals sequence properly. I have used Deoxit on the band switch and on the pins for the plug-in boards, and the power supply board voltages are good. Does anyone have an idea of where to look for the problem?

73,

Bob AD3K

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1923. Wanted Drake TR-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 21:45:28 UTC
From: Wrongway
Topic: 1923 Message: 1923

I am looking for a Drake TR-6 in good to very good condition.

Thanks,
wx4us@...

1924. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 22:16:01 UTC
From: toptyp19
Topic: 1896 Message: 1924

Richard, your posts are stuttering badly! The same one over and over.
Joe.

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...>
wrote:
>
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, February 22, 2009 8:31 AM
> Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure
>
>
> > Whatever procedure you use to tune up, the very _LAST_
> > thing you
> > should do is to make SURE the PLATE current is dipped.
> > This is true of
> > ANY transmitter with a Pi-Net output.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> Whoa there, I am not sure you are saying what you
> intend to here. _Checking_ that the plate is dipped is a
> good last step but it should be dipped just as soon as drive
> is applied. The Drake procedure is a good generic one.
> Namely, set the load for minimum, Apply a minimum of drive
> and make sure the driver tank is peaked, adjust the plate
> tuning for a dip. Increase load and re-dip. increase drive
> until you reach desired plate current and check the plate
> tuning and load again. Its important to dip the plate early
> to prevent the tubes from burning up. That's also the reason
> for doing preliminaty tuning with minimum drive.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

1925. RE: [DrakeRadio] Wanted Drake TR-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-23 23:32:09 UTC
From: Walter Milton
Topic: 1923 Message: 1925

I have a TR-6 that is operational and I no longer have need of. I am asking $150.00 plus shipping.

Walt, KA2NJF (I'm good in the call book or QRZ)

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Wrongway
Sent: Monday, February 23, 2009 4:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Wanted Drake TR-6

I am looking for a Drake TR-6 in good to very good condition.

Thanks,
wx4us@... <mailto:wx4us%40cox.net>

[Non-text portions of this message have been removed]

1926. RE: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 00:08:39 UTC
From: Walter Milton
Topic: 1896 Message: 1926

How many more times are we going to see the same reply??? ENOUGH is ENOUGH

Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow
Sent: Sunday, February 22, 2009 4:09 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

----- Original Message -----
From: "Garey Barrell" <k4oah@... <mailto:k4oah%40mindspring.com>
>
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Sunday, February 22, 2009 1:02 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> Richard -
>
> OK. I was referring to the previous message(s) that
> essentially said to
> tune for maximum output and go.........
>
> I guess I should have said the _FIRST_ and _LAST_
> thing you should
> do is dip the PLATE control.
>
> By the way, the Drake transmitters all limit the screen
> current which
> limits the "off resonance" plate current in TUNE mode.
> Regardless of
> the transmitter, the most important thing is to _keep_
> the PLATE
> current dipped.
>
> Better?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
OK, I thought that is probably what you meant. Drake
seems to have done a good job of making their transmitters
foolproof.

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@... <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

1927. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 00:55:16 UTC
From: qrp_monk
Topic: 1896 Message: 1927

Anyone else getting many mails from Richard Knoppow? Is the Yahoo
server gone crazy, or is this happening to anyone else?
Bob

1928. Re: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 01:53:40 UTC
From: Jim Shorney
Topic: 1921 Message: 1928

On Mon, 23 Feb 2009 16:20:14 -0500, Bob Spooner wrote:

>The transmit
>relay does not pull in. By the symptoms, it seems to be a switching problem,
>but the 10 volt transmit and receive signals sequence properly.

Check the relay and associated connections.

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1929. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 02:04:54 UTC
From: Richard Knoppow
Topic: 1896 Message: 1929

----- Original Message -----
From: "qrp_monk" <ka0zjo@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 23, 2009 4:55 PM
Subject: [DrakeRadio] Re: T-4X Tune Up Procedure

> Anyone else getting many mails from Richard Knoppow? Is
> the Yahoo
> server gone crazy, or is this happening to anyone else?
> Bob
>

I've sent a total of six messages to this list _ever_.
If you are receiving duplicates its either the Yahoo server
or something else down the line.
BTW, its a good idea to ask first before becoming nasty
as some here have done.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1930. RE: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 02:10:26 UTC
From: Walter Milton
Topic: 1896 Message: 1930

We have gotten over a dozen today!!

Walt

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of qrp_monk
Sent: Monday, February 23, 2009 7:55 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: T-4X Tune Up Procedure

Anyone else getting many mails from Richard Knoppow? Is the Yahoo server gone crazy, or is this happening to anyone else?
Bob

[Non-text portions of this message have been removed]

1931. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 02:14:18 UTC
From: JOHNQRZ@AOL.COM
Topic: 1896 Message: 1931

Walt don't you get it!! HE is not sending them. It is a Yahoo problem happens all the time on other groups.

In a message dated 2/23/2009 6:10:51 P.M. Pacific Standard Time, wmilton@... writes:

We have gotten over a dozen today!!

Walt

From: _DrakeRadio@yahoogroDrakeRa_ (mailto:DrakeRadio@yahoogroups.com) [mailto:_DrakeRadio@yahoogroDrakeRa_ (mailto:DrakeRadio@yahoogroups.com)] On Behalf Of qrp_monk
Sent: Monday, February 23, 2009 7:55 PM
To: _DrakeRadio@yahoogroDrakeRa_ (mailto:DrakeRadio@yahoogroups.com)
Subject: [DrakeRadio] Re: T-4X Tune Up Procedure

Anyone else getting many mails from Richard Knoppow? Is the Yahoo server gone crazy, or is this happening to anyone else?
Bob

[Non-text portions of this message have been removed]

**********Get a jump start on your taxes. Find a tax professional in your neighborhood today.
(http://yellowpages.aol.com/search?query=Tax+Return+Preparation+%26+Filing&ncid=emlcntusyelp00000004)

[Non-text portions of this message have been removed]

1932. Re: [DrakeRadio] Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 02:20:55 UTC
From: Richard Knoppow
Topic: 1918 Message: 1932

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 23, 2009 10:52 AM
Subject: Re: [DrakeRadio] Chassis cleanup

> Grant:
>
> This is a real problem. I would say if it really has to
> look great, buy another radio. The lettering is the least
> of your problem. That said, the problem is many of these
> radios have damaged metal. Cleaning the chassis will not
> make many of these radios look much better then before
> they were cleaned. Many have had the copper "bubble up"
> as the steel below the copper has rusted. Some have tried
> spraying a copper colored paint over the chassis including
> me. The look is terrible as the surface looks as rough as
> the moon. I think it looks worse then no spray at all.
> It looks cheap. Removing all the parts and having the
> chassis re-plated is probably out of the question for many
> obvious reasons. I have often thought about spraying the
> chassis with a thick self leveling polyurethane and then
> spraying the chassis with a copper paint coating and then
> relabeling the chassis with rub on letters supplied by a
> toy train hobby shop. I have not tried this idea. I am
> sure doing this will still not make the chassis look
> great. I can't emphasize enough how bad a chassis will
> look by just spray painting over the rust. I see no way
> of sanding the chassis down before a painting as there are
> too many areas you just can't get to to sand down. Doing
> all this would really take a lot of time and you would
> still have a radio not looking all that good.
>
> I have come to the conclusion, the best thing to do is
> just clean the chassis and live with the situation or get
> a different radio. Sorry I could not be more helpful.
> Maybe others know something I do no know.
>
> 73,
>
> Lee, w0vt

The copper plating was undoubtedly meant to increase
conductivity at RF (skin effect). I have no idea if this
works but Drake is not the only manuacturer to do it. I

would be cautious of any treatment that might remove much of the copper. There are copper and silver cleaners which remove tarnish, they will probably shine up the surface but, again, be careful not to let them remove much metal and don't use anything with an abrasive in it. I suspect from my Drake stuff that about the best you can do is to remove surface dirt.
BTW, sometimes painting or laquering over corroded metal can cause the corrosion to spread.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1933. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 02:27:40 UTC
From: Richard Knoppow
Topic: 1896 Message: 1933

----- Original Message -----
From: "Walter Milton" <wmilton@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 23, 2009 6:10 PM
Subject: RE: [DrakeRadio] Re: T-4X Tune Up Procedure

> We have gotten over a dozen today!!
>
>
>
> Walt
>
This is probably a Yahoo problem. I belong to a couple
of other mailing lists at Yahoo and all have suffered from
this problem occasionally. I don't know the cause. But, its
not just Yahoo, other mailing lists I'm on have also had
problems with repeated messages (usually doubled) at times
(no, its NOT me:-). I looked at the headers and both of
those who complained are on different ISPs. Perhaps, there
is some relay point that is having problems.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1934. Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 01:13:55 UTC
From: utah802001
Topic: 1896 Message: 1934

I am receiving a HUGE number of them and I think others are as well.
Maybe the modrator can look at what is happening.
Kent
K7dxp

--- In DrakeRadio@yahoogroups.com, "qrp_monk" <ka0zjo@...> wrote:
>
> Anyone else getting many mails from Richard Knoppow? Is the Yahoo
> server gone crazy, or is this happening to anyone else?
> Bob
>

1935. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 03:29:34 UTC
From: don
Topic: 1896 Message: 1935

I only found legit msgs from him on the server, and those are the only msgs from him that I have seen.
With that being the case, I would ask that Richard Knoppow to please check for virus.
Also, I have seen some similair complaints on some other yahoo reflectors. Yahoo's groups have had a history of occassional strange behavior, often sending multiple copies to a few select people.
I will try to update if I come up with anything else.
Don
AD7LL

----- Original Message -----
From: utah802001
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 23, 2009 6:13 PM
Subject: [DrakeRadio] Re: T-4X Tune Up Procedure

I am receiving a HUGE number of them and I think others are as well.
Maybe the modrator can look at what is happening.
Kent
K7dxp

--- In DrakeRadio@yahoogroups.com, "qrp_monk" <ka0zjo@...> wrote:
>
> Anyone else getting many mails from Richard Knoppow? Is the Yahoo
> server gone crazy, or is this happening to anyone else?
> Bob
>

[Non-text portions of this message have been removed]

1936. Re: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 04:40:24 UTC
From: Larry Taft
Topic: 1921 Message: 1936

Is the synthesizer still locked, ie showing a good frequency? There is
an inhibit line from the synth that can keep the relay from pulling in
if the synth has gone pookie.

Larry K2LT
drakerepair.com 800-687-9161

Jim Shorney wrote:
> On Mon, 23 Feb 2009 16:20:14 -0500, Bob Spooner wrote:
>
>
>> The transmit
>> relay does not pull in. By the symptoms, it seems to be a switching problem,
>> but the 10 volt transmit and receive signals sequence properly.
>>
>
>
> Check the relay and associated connections.
>
> -Jim
>
>
> --
> Ham Radio NU0C
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
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>
> Yahoo! Groups Links
>
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>

1937. Re: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 04:45:39 UTC
From: Jim Shorney
Topic: 1921 Message: 1937

On Mon, 23 Feb 2009 22:40:24 -0600, Larry Taft wrote:

>Is the synthesizer still locked, ie showing a good frequency? There is
>an inhibit line from the synth that can keep the relay from pulling in
>if the synth has gone pookie.

Only if the "standard" all-band transmit mod has not been made. This
mod (cutting the trace on the bottom of the parent board) disables the
OOL transmit inhibit. There is a better way to do this mod that does
not disable the OOL.

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1938. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 06:06:10 UTC
From: Richard Knoppow
Topic: 1896 Message: 1938

----- Original Message -----
From: "don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 23, 2009 7:29 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> I only found legit msgs from him on the server, and
> those are the only msgs from him that I have seen.
> With that being the case, I would ask that Richard
> Knoppow to please check for virus.
> Also, I have seen some similair complaints on some
> other yahoo reflectors. Yahoo's groups have had a history
> of occassional strange behavior, often sending multiple
> copies to a few select people.
> I will try to update if I come up with anything else.
> Don
> AD7LL
>
I have an anti-virus running on this machine which is
kept up to date. Plus I think Earthlink has anti-virus on
outgoing messages.

Is this continuing to happen?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1939. Re: [DrakeRadio] Re: T-4X Tune Up Procedure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 06:10:14 UTC
From: Richard Knoppow
Topic: 1896 Message: 1939

----- Original Message -----
From: "don" <drfrasher@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 23, 2009 7:29 PM
Subject: Re: [DrakeRadio] Re: T-4X Tune Up Procedure

> I only found legit msgs from him on the server, and
> those are the only msgs from him that I have seen.
> With that being the case, I would ask that Richard
> Knoppow to please check for virus.
> Also, I have seen some similair complaints on some
> other yahoo reflectors. Yahoo's groups have had a history
> of occassional strange behavior, often sending multiple
> copies to a few select people.
> I will try to update if I come up with anything else.
> Don
> AD7LL

Will those receiving duplicates please look at the
headers, perhaps there is a clue there.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1940. Duplicate Messages

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 06:14:05 UTC
From: Richard Knoppow
Topic: 1940 Message: 1940

I just found that the Hewlett-Packard/Agilent, also on
Yahoo, also has several duplicated messages from some of the
members. Evidently this is happening at Yahoo.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1941. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 13:20:31 UTC
From: Bob Spooner
Topic: 1921 Message: 1941

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On
Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their intended effect, but the receive sensitivity is very low. When I try to transmit, if the microphone is near the speaker I get feedback. The transmit relay does not pull in. By the symptoms, it seems to be a switching problem, but the 10 volt transmit and receive signals sequence properly. I have used Deoxit on the band switch and on the pins for the plug-in boards, and the power supply board voltages are good. Does anyone have an idea of where to look for the problem?

73,

Bob AD3K

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1942. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 13:51:36 UTC
From: Steve Finch
Topic: 1921 Message: 1942

I know there is a source, but it was so long ago (10 years) that I don☐t remember. There is a TR7 Yahoo group. I☐d join and post your request there. Also, you might contact Jeff Covelli, WA8SAJ, 440-951-6406, wa8saj@ncweb.com , http://www.wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm for a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 6:21 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

_____

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com

Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their intended effect, but the receive sensitivity is very low. When I try to transmit, if the microphone is near the speaker I get feedback. The transmit relay does not pull in. By the symptoms, it seems to be a switching problem, but the 10 volt transmit and receive signals sequence properly. I have used Deoxit on the band switch and on the pins for the plug-in boards, and the power supply board voltages are good. Does anyone have an idea of where to look for the problem?

73,

Bob AD3K

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1943. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 14:16:11 UTC
From: Bob Spooner
Topic: 1921 Message: 1943

Jim,

Thanks for your reply. I'll do that. Do you know where I can get a replacement?

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Monday, February 23, 2009 8:54 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Problem with TR7A

On Mon, 23 Feb 2009 16:20:14 -0500, Bob Spooner wrote:

>The transmit
>relay does not pull in. By the symptoms, it seems to be a switching problem,
>but the 10 volt transmit and receive signals sequence properly.

Check the relay and associated connections.

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.
<http://groups.yahoo.com/group/HyGain_3750/> yahoo.com/group/HyGain_3750/
http://radiojim. <http://radiojim.exofire.net> exofire.net
http://incolor. <http://incolor.inetnebr.com/jshorney> inetnebr.com/jshorney
http://www.nebraska <http://www.nebraskaghosts.org> ghosts.org

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1944. Re: [DrakeRadio] Duplicate Messages

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 14:18:50 UTC
From: don
Topic: 1940 Message: 1944

I have it seen on a couple of other groups as well.
so it looks like it's just yahoo having one of its hiccups
Don
AD7LL

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 23, 2009 11:14 PM
Subject: [DrakeRadio] Duplicate Messages

I just found that the Hewlett-Packard/Agilent, also on
Yahoo, also has several duplicated messages from some of the
members. Evidently this is happening at Yahoo.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

1945. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 14:20:58 UTC
From: Bob Spooner
Topic: 1921 Message: 1945

Larry,

Thanks for your suggestion. The synthesizer is still locked, as far as I could see, since I could hear some signals. The strong ones are quite clear although weak, so I think all the synthesizer circuitry is OK. I'll check the inhibit line though, just to be sure.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Larry Taft
Sent: Monday, February 23, 2009 11:40 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Problem with TR7A

Is the synthesizer still locked, ie showing a good frequency? There is an inhibit line from the synth that can keep the relay from pulling in if the synth has gone pookie.

Larry K2LT
drakerepair.com 800-687-9161

Jim Shorney wrote:
> On Mon, 23 Feb 2009 16:20:14 -0500, Bob Spooner wrote:
>
>
>> The transmit
>> relay does not pull in. By the symptoms, it seems to be a switching problem,
>> but the 10 volt transmit and receive signals sequence properly.
>>
>
>
> Check the relay and associated connections.
>
> -Jim
>
>
> --
> Ham Radio NU0C
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>

> HyGain 3750 User's Group - http://groups.
<http://groups.yahoo.com/group/HyGain_3750/> yahoo.com/group/HyGain_3750/
> http://radiojim. <http://radiojim.exofire.net> exofire.net
> http://incolor. <http://incolor.inetnebr.com/jshorney>
inetnebr.com/jshorney
> http://www.nebraska <http://www.nebraskaghosts.org> ghosts.org
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> ------------------------------------
>
> Yahoo! Groups Links
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1946. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 14:23:56 UTC
From: Bob Spooner
Topic: 1921 Message: 1946

Jim,

The rig is unmodified, but I'd like to be able to transmit on the WARC bands without disabling the inhibit line. Can you point me to a URL that shows how to do this mod?

73,

Bob AD3K.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Monday, February 23, 2009 11:46 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Problem with TR7A

On Mon, 23 Feb 2009 22:40:24 -0600, Larry Taft wrote:

>Is the synthesizer still locked, ie showing a good frequency? There is
>an inhibit line from the synth that can keep the relay from pulling in
>if the synth has gone pookie.

Only if the "standard" all-band transmit mod has not been made. This mod (cutting the trace on the bottom of the parent board) disables the OOL transmit inhibit. There is a better way to do this mod that does not disable the OOL.

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.
<http://groups.yahoo.com/group/HyGain_3750/> yahoo.com/group/HyGain_3750/
http://radiojim. <http://radiojim.exofire.net> exofire.net
http://incolor. <http://incolor.inetnebr.com/jshorney> inetnebr.com/jshorney
http://www.nebraska <http://www.nebraskaghosts.org> ghosts.org

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1947. R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 14:36:20 UTC
From: de_n7ioh
Topic: 1947 Message: 1947

I was just wondering when Drake quit making amateur radio equipment? Also I have found an AC-4 on eBay with a very high serial number that just does not seem right. The serial number is, 86503. In looking at Ron WB4HFN's, Serial Number Database it appears that a serial number around 60639 would be one of the last AC-4's to be produced. Anyone happen to know if sn. 86503 could be a good serial number?

Thanks, Al, n7ioh

1948. Re: [DrakeRadio] Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 15:28:14 UTC
From: Sprint
Topic: 1918 Message: 1948

Are just 'cleaning up' the chassis or do you want to restore the radio?

To restore, albeit a might pricy, strip the radio chassis down to just the frame. Then go to a commercial sign shop. Have them measure or photograph, etc., all the tube identification lettering...they then can make a silk screen overlay sheet from that info..identical to what is on the chassis. Then, take the chassis to a plater...have them strip the copper and re-plate the copper. Then, take the silk screen overlay and use that to repaint the tube nomenclature on the chassis. (Don't forget to coat the finished chassis with a non-coloring, heat resistant, protective coat, of some sort) Depending on where you live, you will have a couple hundred dollars invested, but...you will have a bright, copper chassis, just like when the radio was new.

Much success on your restoration, if that is your goal.

Joe Wolfe
WA6RKN

----- Original Message -----
From: "querencias" <tuquerencia@...>
Subject: [DrakeRadio] Chassis cleanup

> Gents,
>
> how might one clean up the corroded and rusted chassis on the drake
> units, the 2B and R4B receivers, without destroying the lettering?

1949. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 15:38:58 UTC
From: Bob Spooner
Topic: 1921 Message: 1949

Steve,

Thanks. I emailed him.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Steve Finch
Sent: Tuesday, February 24, 2009 8:52 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

I know there is a source, but it was so long ago (10 years) that I don☐t remember. There is a TR7 Yahoo group. I☐d join and post your request there. Also, you might contact Jeff Covelli, WA8SAJ, 440-951-6406, wa8saj@ncweb. <mailto:wa8saj%40ncweb.com> com , http://www.wb4hfn. <http://www.wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm> com/Services/WA8SAJ/SAJ-Repair.htm for a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 6:21 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com <mailto:DrakeRadio%40yahoogroups.com>]

On
Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem
disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their
intended effect, but the receive sensitivity is very low. When I try to
transmit, if the microphone is near the speaker I get feedback. The transmit
relay does not pull in. By the symptoms, it seems to be a switching problem,
but the 10 volt transmit and receive signals sequence properly. I have used
Deoxit on the band switch and on the pins for the plug-in boards, and the
power supply board voltages are good. Does anyone have an idea of where to
look for the problem?

73,

Bob AD3K

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1950. Re: Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-24 18:01:50 UTC
From: querencias
Topic: 1918 Message: 1950

Thanks to all you guys for the information and advice. This is a great group, one of the best I've experienced on the web, a great source of information and help. I didn't realize this but owning Drake tube gear is a little bit like owning a Mercedes Benz 300 SLR Gull Wing Coupe - in my opinion there are no better radios.

73 Grant KT6L

--- In DrakeRadio@yahoogroups.com, "Sprint" <sprint@...> wrote:
>
> Are just 'cleaning up' the chassis or do you want to restore the radio?
>
>

1951. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 00:24:23 UTC
From: Jim Chaggaris
Topic: 1921 Message: 1951

This relay is readily available. Not obsolete by any means.

http://www.newark.com/tyco-electronics-potter-brumfield/r10-e14-v185/power-r
elay/dp/45F109?_requestid=172409

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 9:39 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks. I emailed him.

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Steve Finch
Sent: Tuesday, February 24, 2009 8:52 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

I know there is a source, but it was so long ago (10 years) that I don☐t
remember. There is a TR7 Yahoo group. I☐d join and post your request
there. Also, you might contact Jeff Covelli, WA8SAJ, 440-951-6406,
wa8saj@ncweb. <mailto:wa8saj%40ncweb.com> com , http://www.wb4hfn.

<http://www.wb4hfn. <http://www.wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm for
a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 6:21 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem
disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com

Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their intended effect, but the receive sensitivity is very low. When I try to transmit, if the microphone is near the speaker I get feedback. The transmit relay does not pull in. By the symptoms, it seems to be a switching problem, but the 10 volt transmit and receive signals sequence properly. I have used Deoxit on the band switch and on the pins for the plug-in boards, and the power supply board voltages are good. Does anyone have an idea of where to look for the problem?

73,

Bob AD3K

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[Non-text portions of this message have been removed]

1952. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 01:51:56 UTC
From: Jim Shorney
Topic: 1921 Message: 1952

On Tue, 24 Feb 2009 09:23:56 -0500, Bob Spooner wrote:

>The rig is unmodified, but I'd like to be able to transmit on the WARC bands
>without disabling the inhibit line. Can you point me to a URL that shows how
>to do this mod?

Bob,

The details of the mod depend on which version of the Digital Control board you have. The old version had 9 CMOS logic ICs on it, the new version has four logic ICs and a PROM. I don't have it documented for my web site yet, but you can find a text description in the Drakelist reflector archive or on the Drakelist online forum here:

http://zerobeat.net/drakelist/smf/index.php/topic,226.0.html

Note that this is the old version board. I haven't worked out the mod for the new board yet because I don't have a sample on hand, but the general idea is the same: trick the radio into thinking every band is a "ham band", and to allow transmit outside of the 500 KHz ham segments. I can also forward a pic of the mod to the old style board if you need it.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1953. Re: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 03:20:04 UTC
From: don
Topic: 1921 Message: 1953

Thanks for the link Jim !

Don
AD7LL
http://home.pmt.org/~drfrasher/AD7LL.htm
http://www.srcisra.org

----- Original Message -----
From: Jim Chaggaris
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, February 24, 2009 5:24 PM
Subject: RE: [DrakeRadio] Problem with TR7A

This relay is readily available. Not obsolete by any means.

http://www.newark.com/tyco-electronics-potter-brumfield/r10-e14-v185/power-r
elay/dp/45F109?_requestid=172409

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 9:39 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks. I emailed him.

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Steve Finch
Sent: Tuesday, February 24, 2009 8:52 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

I know there is a source, but it was so long ago (10 years) that I don't
remember. There is a TR7 Yahoo group. I'd join and post your request
there. Also, you might contact Jeff Covelli, WA8SAJ, 440-951-6406,
wa8saj@ncweb. <mailto:wa8saj%40ncweb.com> com , http://www.wb4hfn.
<http://www.wb4hfn. <http://www.wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm for
a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 6:21 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
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[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem
disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>
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Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
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1954. Re: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 03:26:11 UTC
From: don
Topic: 1921 Message: 1954

In case the link didn't go through, you can search for it by part number
Newark Part Number: 45F109

Manufacturer Part No: R10-E1Y4-V185

<http://www.newark.com/tyco-electronics-potter-brumfield/r10-e14-v185/power-relay/dp/45F109?_requestid=172409>

----- Original Message -----
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To: DrakeRadio@yahoogroups.com
Sent: Tuesday, February 24, 2009 5:24 PM
Subject: RE: [DrakeRadio] Problem with TR7A

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James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
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Fax: 630-443-6505
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a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
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ai0w@arrl.net <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>

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1955. Re: [DrakeRadio] R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 05:04:09 UTC
From: rrkrr
Topic: 1947 Message: 1955

Al,
I don't know anything about the range on serial numbers on AC-4 power supplies, but I'll bet Drake does. They are still in business making satellite equipment. In my experience, they are usually friendly regarding inquiries about the old ham radio products - they even still sell parts for the R8 receivers, for instance. Send them a note about the AC-4 serial number range, and I would wager that they will respond.

Bob K4ERR

de_n7ioh wrote:
>
> I was just wondering when Drake quit making amateur radio equipment?
> Also I have found an AC-4 on eBay with a very high serial number
> that just does not seem right. The serial number is, 86503. In
> looking at Ron WB4HFN's, Serial Number Database it appears that a
> serial number around 60639 would be one of the last AC-4's to be
> produced. Anyone happen to know if sn. 86503 could be a good serial
> number?
>
> Thanks, Al, n7ioh
>
>

1956. FS: Drake C-Line (T-4XC, R-4C, MS-4, AC-4) in St. Louis, MO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 04:43:18 UTC
From: mecograph
Topic: 1956 Message: 1956

Hi Everyone!

I can't keep all the radios so I've decided to sell my Drake C-Line

Included are the following.

T-4XC transmitter with original (not a copy) Drake manual. Serial No.
21532.
R-4C receiver with original (not a copy) Drake manual. Serial No.
18028. Receiver has the followng accessory filters: 6KHz AM, 500hz CW,
and 250hz CW Filter. Also installed is a 39.1 accessory crystal for
28.0 - 28.5Mhz.
AC-4 Power Supply for the T-4XC. Serial No. 42944
MS-4 Speaker for the R-4C.
All the interconnecting cables (all are original Drake except for one).

Price for all is $750.00 plus shipping.

Here's a web page I put together showing the photos:

http://www.mindspring.com/~vibroplex/drake_c_line.html

I've tried to describe everything that I've discovered about this pair
that's not perfect. I'll do my best to answer your questions although
I'm not an expert on this radio by any means.

Thanks & 73,

Derek WB0TUA

1957. Re: [DrakeRadio] R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 06:01:11 UTC
From: Richard Knoppow
Topic: 1947 Message: 1957

----- Original Message -----
From: "rrkrr" <rrkrr@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, February 24, 2009 9:04 PM
Subject: Re: [DrakeRadio] R.L. Drake company and equipment question?

> Al,
> I don't know anything about the range on serial numbers on
> AC-4 power
> supplies, but I'll bet Drake does. They are still in
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> Bob K4ERR
>
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>> number?
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>> Thanks, Al, n7ioh
>>
>>
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1958. Re: [DrakeRadio] R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 06:08:28 UTC
From: Richard Knoppow
Topic: 1947 Message: 1958

----- Original Message -----
From: "rrkrr" <rrkrr@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, February 24, 2009 9:04 PM
Subject: Re: [DrakeRadio] R.L. Drake company and equipment question?

> Al,
> I don't know anything about the range on serial numbers on
> AC-4 power
> supplies, but I'll bet Drake does. They are still in
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> Bob K4ERR
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>> Thanks, Al, n7ioh
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My recently aquired AC-4 appears to be S/N 88920 The
number is rubber stamped on the rear chassis apron and some
of the numerals are slightly smeared and are a bit hard to
read. The second numeral could be a 9 but it looks more like

an 8. I have no idea of its history. I got it from someone on eBay (first time I've ever won an auction there). Are there any other markings I could look for that would be helpful in dating yours?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1959. Re: [DrakeRadio] R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 06:09:57 UTC
From: Richard Knoppow
Topic: 1947 Message: 1959

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, February 24, 2009 10:01 PM
Subject: Re: [DrakeRadio] R.L. Drake company and equipment
question?

Sorry about the blank post, It was sent accidently.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1960. Re: R.L. Drake company and equipment question?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 13:56:30 UTC
From: de_n7ioh
Topic: 1947 Message: 1960

Thanks Richard, no I was just wondering if the serial numbers really went up that high or if it had been altered. The one I was looking at on eBay had a slightly larger space between the first two numbers then the rest of the numbers. I won't worry about it. Thanks for the reply.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "rrkrr" <rrkrr@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, February 24, 2009 9:04 PM
> Subject: Re: [DrakeRadio] R.L. Drake company and equipment
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> > Al,
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> on eBay (first time I've ever won an auction there). Are
> there any other markings I could look for that would be
> helpful in dating yours?
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

1961. Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 15:03:45 UTC
From: Kris Merschrod
Topic: 1961 Message: 1961

Has the exact date and place in the production line become so important that we would attach so much interest in the number?

I saw one claim on eBay that the rig was the "last one manufactured." That would be unique - bragging rights of sorts, and, really, that sort of odd case requires research. But for the rest of the cases, the real issue is what the gear looks like, functions, and which components are there. (Would anyone try to make a fake Drake?)

Just glancing at four serial numbers sitting on my desk - I give the Drake company a poor grade on neatness of numbering - not well spaced letters, etc. Fortunately they did nice silk screening where it counts - on the front panels. I assume that they never though of us 40 plus years latter examining the serial numbers for esthetics!!!

73,

Kris KA2OIG Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734

www.merschrod.net/KA2OIG.htm

----- Original Message -----
From: de_n7ioh
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 25, 2009 8:56 AM
Subject: [DrakeRadio] Re: R.L. Drake company and equipment question?

Thanks Richard, no I was just wondering if the serial numbers really went up that high or if it had been altered. The one I was looking at on eBay had a slightly larger space between the first two numbers then the rest of the numbers. I won't worry about it. Thanks for the reply.

Al, n7ioh

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> Sent: Tuesday, February 24, 2009 9:04 PM
> Subject: Re: [DrakeRadio] R.L. Drake company and equipment
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> helpful in dating yours?
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

[Non-text portions of this message have been removed]

1962. Re: [DrakeRadio] Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 15:58:00 UTC
From: Richard Knoppow
Topic: 1961 Message: 1962

```
----- Original Message -----
From: "Kris Merschrod" <kris@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 25, 2009 7:03 AM
Subject: [DrakeRadio] Serial numbers - real, altered or
otherwise -

> Has the exact date and place in the production line become
> so important that we would attach so much interest in the
> number?
>
> I saw one claim on eBay that the rig was the "last one
> manufactured." That would be unique - bragging rights of
> sorts, and, really, that sort of odd case requires
> research. But for the rest of the cases, the real issue
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> I give the Drake company a poor grade on neatness of
> numbering - not well spaced letters, etc. Fortunately
> they did nice silk screening where it counts - on the
> front panels. I assume that they never though of us 40
> plus years latter examining the serial numbers for
> esthetics!!!
>
> 73,
>
>
> Kris KA2OIG Merschrod
> 123 Warren Road
> Ithaca, NY 14850
> (607) 257-1734
>
> www.merschrod.net/KA2OIG.htm
>
Serial numbers are sometimes of practical interest. For
instance where a manufacturer has made significant changes
in the design of a project without indicating it as a model
number change. This was a fairly common practice in two
fields where I have some familiarity, electronics and
cameras. Where there have been no changes in design or only
relatively minor ones, or, where there is no information
about such changes relating them to the serial numbers, such
```

numbers are pretty useless. Drake obviously did not consider serial numbers important or they would have marked them in a more permanent way such as engraving or stamping them into the chassis.
Serial numbers do not always indicate the size of a run or even its order. As an example serial numbers are somtimes issued in blocks. If a production run is not large enough not all the numbers are used and there is a discontinuity in the series. Sometimes, as in the case of late Graflex manufactured cameras, the blocks got mixed so some cameras have duplicate numbers and and many blocks were used out of order. Bausch & Lomb has always been frustrating to me because they evidently issued seperate number series for each product or product group. For instance you can not date camera lenses from the dates associated with the serial numbers of microscope objectives or projection lenses. Somewhere around the mid 1940s B&L changed their whole numbering system to use a prefix indicating the product group and a date code. However, the letters of the date code are arbitrary and there is no key word as there is for Kodak lenses.
Since Drake made relatively few products and evidently did not make significant design changes during production of a given model (or maybe they did?), the serial numbers seem of minor significance. In addition, they do not seem useful even for identifying a particular piece of equipment because they are so easily removed or changed. Nonetheless, serial numbers have an undeniable fascination.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1963. Re: Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 16:11:17 UTC
From: de_n7ioh
Topic: 1961 Message: 1963

Kris, you missed my reason for wanting to know if it was altered. The AC-3's from what I can tell all had four digit numbers. If someone added another digit it would make it an AC-4 by serial number. The power supply was in the MS-4 so I could not see the supply at all. I requested a photo of the AC-4 because of the serial number and the seller took a photo that showed ONLY the serial number area so I still could not tell what I was bidding on. I could see a very small portion of the upper case but not enough to tell much about it. One would not want to buy a 1969 Mustang unseen and than find out later it was a 1967 Mustang. Serial numbers are important in the Drake line because unlike some items the changes are noted by serial numbers. When things don't look right on eBay or other for sale web sites I don't bid. There are some sellers that will do their best not to tell the whole truth about an item they are selling. They play dumb, won't tell you that there is something wrong with it even though they know about the problem. They claim it worked fine the last time I used it or any number of stories to avoid telling the truth. In this case it looked like the seller knew something wasn't right and was trying to hide it.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, "Kris Merschrod" <kris@...> wrote:
>
> Has the exact date and place in the production line become so important that we would attach so much interest in the number?
>
> I saw one claim on eBay that the rig was the "last one manufactured." That would be unique - bragging rights of sorts, and, really, that sort of odd case requires research. But for the rest of the cases, the real issue is what the gear looks like, functions, and which components are there. (Would anyone try to make a fake Drake?)
>
> Just glancing at four serial numbers sitting on my desk - I give the Drake company a poor grade on neatness of numbering - not well spaced letters, etc. Fortunately they did nice silk screening where it counts - on the front panels. I assume that they never though of us 40 plus years latter examining the serial numbers for esthetics!!!
>
> 73,
>
>
> Kris KA2OIG Merschrod
> 123 Warren Road
> Ithaca, NY 14850

> (607) 257-1734
>
> www.merschrod.net/KA2OIG.htm
>
> ----- Original Message -----
> From: de_n7ioh
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, February 25, 2009 8:56 AM
> Subject: [DrakeRadio] Re: R.L. Drake company and equipment question?
>
>
> Thanks Richard, no I was just wondering if the serial numbers really
> went up that high or if it had been altered. The one I was looking at
> on eBay had a slightly larger space between the first two numbers then
> the rest of the numbers. I won't worry about it. Thanks for the reply.
>
> Al, n7ioh
>
> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@>
> wrote:
> >
> >
> > ----- Original Message -----
> > From: "rrkrr" <rrkrr@>
> > To: <DrakeRadio@yahoogroups.com>
> > Sent: Tuesday, February 24, 2009 9:04 PM
> > Subject: Re: [DrakeRadio] R.L. Drake company and equipment
> > question?
> >
> >
> > > Al,
> > > I don't know anything about the range on serial numbers on
> > > AC-4 power
> > > supplies, but I'll bet Drake does. They are still in
> > > business making
> > > satellite equipment. In my experience, they are usually
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> > > regarding inquiries about the old ham radio products -
> > > they even still
> > > sell parts for the R8 receivers, for instance. Send them
> > > a note about
> > > the AC-4 serial number range, and I would wager that they
> > > will respond.
> > >
> > > Bob K4ERR
> > >
> > > de_n7ioh wrote:
> > >>
> > >> I was just wondering when Drake quit making amateur radio
> > >> equipment?

> > >> Also I have found an AC-4 on eBay with a very high serial
> > >> number
> > >> that just does not seem right. The serial number is,
> > >> 86503. In
> > >> looking at Ron WB4HFN's, Serial Number Database it
> > >> appears that a
> > >> serial number around 60639 would be one of the last
> > >> AC-4's to be
> > >> produced. Anyone happen to know if sn. 86503 could be a
> > >> good serial
> > >> number?
> > >>
> > >> Thanks, Al, n7ioh
> > >>
> > My recently aquired AC-4 appears to be S/N 88920 The
> > number is rubber stamped on the rear chassis apron and some
> > of the numerals are slightly smeared and are a bit hard to
> > read. The second numeral could be a 9 but it looks more like
> > an 8. I have no idea of its history. I got it from someone
> > on eBay (first time I've ever won an auction there). Are
> > there any other markings I could look for that would be
> > helpful in dating yours?
> >
> >
> > --
> > Richard Knoppow
> > Los Angeles
> > WB6KBL
> > dickburk@
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

1964. Re: [DrakeRadio] Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 16:21:36 UTC
From: Garey Barrell
Topic: 1961 Message: 1964

Richard Knoppow wrote:
> Since Drake made relatively few products and evidently
> did not make significant design changes during production of
> a given model (or maybe they did?), the serial numbers seem
> of minor significance. In addition, they do not seem useful
> even for identifying a particular piece of equipment because
> they are so easily removed or changed. Nonetheless, serial
> numbers have an undeniable fascination.
>
Richard -

Serial numbers are significant in some Drake equipment. The TR series of tube transceivers had 14 different "versions" over the years, there were two versions of the TR-3, eight of the TR-4 and four of the TR-4C. There were four versions of the R-4B and four of the R-4C. Unfortunately Drake was not "iron-clad" as far as the hardware reflecting the exact version according to serial number ranges. Certain circuit/component changes actually occurred a little on either side of the "official" documented change s/n.

The receivers in the 4 Line started at 0, and went through the R-4C "continuously" through nearly 30,000. The transmitters started at 10,000 (T-4 started at 100, I think) and also went through about 30,000.

All that being said, the AC-4 power supply didn't have enough changes made to matter functionally. Some just want to own the "latest" serial number unit. Others think that the later s/n units will have more "life" in the electrolytics! The problem here is that ALL these supplies are at least 30 years old, so the caps are at least 20 years past their expected life.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1965. Re: [DrakeRadio] Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 16:31:10 UTC
From: Richard Knoppow
Topic: 1961 Message: 1965

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 25, 2009 8:21 AM
Subject: Re: [DrakeRadio] Serial numbers - real, altered or
otherwise -

>
>
> Richard Knoppow wrote:
>> Since Drake made relatively few products and
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>> did not make significant design changes during production
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> Richard -
>
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> of tube transceivers had 14 different "versions" over the
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> of the TR-4C.
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> reflecting the exact version according to serial number
> ranges. Certain
> circuit/component changes actually occurred a little on
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> have more
> "life" in the electrolytics! The problem here is that ALL
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> supplies are at least 30 years old, so the caps are at
> least 20 years
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>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>

Very interesting stuff, thanks:-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1966. Re: [DrakeRadio] Re: Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 16:48:53 UTC
From: Kris Merschrod
Topic: 1961 Message: 1966

Ah, Al, now I see what the issue was - My AC-3 to AC-4 experience is limited to only a few pwr splys, but from that experience the AC-3 did not have an aluminum cover, while my AC-4s all have had covers (even in the MS-4). But then again, my AC-4s are late 1970s.

I'm off to a hamfest this weekend and will look over those pwr splys!

73,

Kris Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734

www.merschrod.net (Site for reviewing the highlights of my book)
" A Sociology: The dynamics of collectivities
and their application to social change and development"
----- Original Message -----
From: de_n7ioh
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 25, 2009 11:11 AM
Subject: [DrakeRadio] Re: Serial numbers - real, altered or otherwise -

Kris, you missed my reason for wanting to know if it was altered. The AC-3's from what I can tell all had four digit numbers. If someone added another digit it would make it an AC-4 by serial number. The power supply was in the MS-4 so I could not see the supply at all. I requested a photo of the AC-4 because of the serial number and the seller took a photo that showed ONLY the serial number area so I still could not tell what I was bidding on. I could see a very small portion of the upper case but not enough to tell much about it. One would not want to buy a 1969 Mustang unseen and than find out later it was a 1967 Mustang. Serial numbers are important in the Drake line because unlike some items the changes are noted by serial numbers. When things don't look right on eBay or other for sale web sites I don't bid. There are some sellers that will do their best not to tell the whole truth about an item they are selling. They play dumb, won't tell you that there is something wrong with it even though they know about the problem. They claim it worked fine the last time I used it or any number of stories to avoid telling the truth. In this case it looked like the seller knew something wasn't right and was trying to hide it.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, "Kris Merschrod" <kris@...> wrote:
>
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the cases, the real issue is what the gear looks like, functions, and
which components are there. (Would anyone try to make a fake Drake?)
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> Just glancing at four serial numbers sitting on my desk - I give the
Drake company a poor grade on neatness of numbering - not well spaced
letters, etc. Fortunately they did nice silk screening where it
counts - on the front panels. I assume that they never though of us
40 plus years latter examining the serial numbers for esthetics!!!
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> 73,
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> Kris KA2OIG Merschrod
> 123 Warren Road
> Ithaca, NY 14850
> (607) 257-1734
>
> www.merschrod.net/KA2OIG.htm
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> ----- Original Message -----
> From: de_n7ioh
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, February 25, 2009 8:56 AM
> Subject: [DrakeRadio] Re: R.L. Drake company and equipment question?
>
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> Thanks Richard, no I was just wondering if the serial numbers really
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> on eBay had a slightly larger space between the first two numbers then
> the rest of the numbers. I won't worry about it. Thanks for the reply.
>
> Al, n7ioh
>
> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@>
> wrote:
> >
> >
> > ----- Original Message -----
> > From: "rrkrr" <rrkrr@>
> > To: <DrakeRadio@yahoogroups.com>
> > Sent: Tuesday, February 24, 2009 9:04 PM
> > Subject: Re: [DrakeRadio] R.L. Drake company and equipment
> > question?
> >
> >

> > > Al,
> > > I don't know anything about the range on serial numbers on
> > > AC-4 power
> > > supplies, but I'll bet Drake does. They are still in
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> > > regarding inquiries about the old ham radio products -
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> >
> > --
> > Richard Knoppow
> > Los Angeles
> > WB6KBL
> > dickburk@
> >

>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1967. Re: [DrakeRadio] Re: Serial numbers - real, altered or otherwise -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-25 16:59:54 UTC
From: Garey Barrell
Topic: 1961 Message: 1967

Kris -

All AC-4 power supplies had a top cover, NONE of the AC-3 supplies did. There were two versions of the AC-3, one with a large filter choke about 1/3 the size of the power transformer and no filter caps on top of the chassis, and another with no choke and several Twist-Lok style filter caps.

I think the only changes on the AC-4 were to increase the capacitance of the Bias Supply filter caps, and the addition of a slide switch to convert from 120 to 240 VAC operation. I believe that all had dual primary power transformers, but for most to change from 120 to 240 required wiring changes on a terminal strip.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Kris Merschrod wrote:
> Ah, Al, now I see what the issue was - My AC-3 to AC-4 experience is limited to only a few pwr splys, but from that experience the AC-3 did not have an aluminum cover, while my AC-4s all have had covers (even in the MS-4). But then again, my AC-4s are late 1970s.
>
>

1968. T-4X No CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 02:37:10 UTC
From: Randy
Topic: 1968 Message: 1968

I'm working on a T-4X and do not seem to have any CW. Here's the story: On 75/80m band (around 3900kHz), the rig tunes up fine following the procedure in the manual. Here are some numbers:
Idle current = 70ma
Plate current in the tune function = 280ma
Resultant power into 50 ohm dummy load = 130W

So far, so good. At this point I wanted to check the Carrier Balance and this is where the problems started. Per the manual I set the sideband to lower, turned the GAIN all the way down (CCW) and turned the FUNCTION switch to CW. The plate current started to rise to maybe 120ma at which point there was a click (like a relay operating) and the plate current dropped to zero; all this in a few tenths of a second. Switching back to the TUNE position results in 130W as shown above. Back to CW and again 120ma, then zero plate current. There is no key in the key jack at this point, meaning that the grids of V3 and V4 are pulled to ground via the key jack contact.

I confess, although this is not my first tube transmitter, it's my first Drake and it's obvious that I don't understand the CW operation. It seems that with the Function switch in CW and sideband on LOWER and no key in the key jack that the radio should be transmitting, except that the instructions say to turn the gain all the way down, so power would be zero. In that case, how can one adjust the power meter for full scale indication? Any help would be appreciated.

Randy - K8HRO

1969. Re: [DrakeRadio] T-4X No CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 03:19:06 UTC
From: Garey Barrell
Topic: 1968 Message: 1969

Randy -

Couple of problems....

1. Either your wattmeter is overly optimistic, or the plate meter in the transmitter is reading very low, or both. Normal plate current for 130W output in TUNE is closer to 350 mA.

2. Carrier balance is checked in SSB, not CW.

From your description, it sounds like the transmitter and VOX circuitry are working properly in TUNE mode. When you switch to CW, the only difference is that the sidetone, which is also used to operate the VOX circuit and therefore the T/R relay, is not making it through the CW switch. In CW mode, the Sidetone is switched on and off when keyed by biasing D8, which is a diode to ground between the two sections of V9. The sidetone is generated in V9a and capacitively coupled to V9b. Diode D8 is either forward biased when the KEY is UP, bypassing the sidetone to ground, or reverse biased when the key is down, allowing the sidetone to pass through to the MIC AMP and on to the VOX. There is an R/C network that provides a pulse when the KEY is first closed to yank the relay closed quickly to prevent clipping of the first syllable or code element, and that is what you are hearing. The pulse is pulling in the relay, allowing final plate current to flow, but since the sidetone is not there to keep it closed, the relay just drops out again.

The positive voltage which is intended to cut off diode D8 comes via R66 and R67, which are both 22M, 1/2W resistors. These tend to go up in value with age until there just isn't enough voltage available to cut off that diode and allow the sidetone to pass. Another less likely possibility is that D8 has failed shorted, which would have the same effect.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Randy wrote:
> I'm working on a T-4X and do not seem to have any CW. Here's the
> story: On 75/80m band (around 3900kHz), the rig tunes up fine
> following the procedure in the manual. Here are some numbers:
> Idle current = 70ma
> Plate current in the tune function = 280ma
> Resultant power into 50 ohm dummy load = 130W
>
> So far, so good. At this point I wanted to check the Carrier Balance

> and this is where the problems started. Per the manual I set the
> sideband to lower, turned the GAIN all the way down (CCW) and turned
> the FUNCTION switch to CW. The plate current started to rise to maybe
> 120ma at which point there was a click (like a relay operating) and
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> second. Switching back to the TUNE position results in 130W as shown
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> no key in the key jack at this point, meaning that the grids of V3 and
> V4 are pulled to ground via the key jack contact.
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> I confess, although this is not my first tube transmitter, it's my
> first Drake and it's obvious that I don't understand the CW operation.
> It seems that with the Function switch in CW and sideband on LOWER
> and no key in the key jack that the radio should be transmitting,
> except that the instructions say to turn the gain all the way down, so
> power would be zero. In that case, how can one adjust the power meter
> for full scale indication? Any help would be appreciated.
>
> Randy - K8HRO
>
>
>

1970. Re: [DrakeRadio] T-4X No CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 03:28:58 UTC
From: Garey Barrell
Topic: 1968 Message: 1970

Oops, up too late.

Cancel the "shorted diode" idea. That would kill the TUNE mode as well.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

1971. Re: [DrakeRadio] T-4X No CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 05:20:40 UTC
From: Richard Knoppow
Topic: 1968 Message: 1971

```
----- Original Message -----
From: "Randy" <rfb@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 25, 2009 6:37 PM
Subject: [DrakeRadio] T-4X No CW

> I'm working on a T-4X and do not seem to have any CW.
> Here's the
> story: On 75/80m band (around 3900kHz), the rig tunes up
> fine
> following the procedure in the manual. Here are some
> numbers:
> Idle current = 70ma
> Plate current in the tune function = 280ma
> Resultant power into 50 ohm dummy load = 130W
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> So far, so good. At this point I wanted to check the
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> and this is where the problems started. Per the manual I
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> above. Back to CW and again 120ma, then zero plate
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> grids of V3 and
> V4 are pulled to ground via the key jack contact.
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> I confess, although this is not my first tube transmitter,
> it's my
> first Drake and it's obvious that I don't understand the
> CW operation.
> It seems that with the Function switch in CW and sideband
> on LOWER
> and no key in the key jack that the radio should be
> transmitting,
> except that the instructions say to turn the gain all the
```

> way down, so
> power would be zero. In that case, how can one adjust the
> power meter
> for full scale indication? Any help would be
> appreciated.
>
> Randy - K8HRO
>
Are you keying at the mic jack? The instructions are to
short the center pin of the mic jack to ground to key the
transmitter. The brief operation followed by the relay may
be the VOX coming on for a fraction of a second.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

1972. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 13:00:31 UTC
From: Bob Spooner
Topic: 1921 Message: 1972

Jim,

Thanks for the URL. I□ve filed it for future reference. It looks like the relay isn□t the problem, because I pulled it out and tested it with a 12V supply and it works. I□m going to clean the contacts with Deoxit before I put it back in.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Tuesday, February 24, 2009 7:24 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

This relay is readily available. Not obsolete by any means.

http://www.newark.
<http://www.newark.com/tyco-electronics-potter-brumfield/r10-e14-v185/power-r> com/tyco-electronics-potter-brumfield/r10-e14-v185/power-relay/dp/45F109?_requestid=172409

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com [mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com] On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 9:39 AM

To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks. I emailed him.

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Steve Finch
Sent: Tuesday, February 24, 2009 8:52 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

I know there is a source, but it was so long ago (10 years) that I don□t
remember. There is a TR7 Yahoo group. I□d join and post your request
there. Also, you might contact Jeff Covelli, WA8SAJ, 440-951-6406,
wa8saj@ncweb. <mailto:wa8saj%40ncweb.com> com , http://www.wb4hfn.
<http://www.wb4hfn. <http://www.wb4hfn.
<http://www.wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm>
com/Services/WA8SAJ/SAJ-Repair.htm for
a suggestion. He is one of the best Drake repair persons.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Tuesday, February 24, 2009 6:21 AM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: RE: [DrakeRadio] Problem with TR7A

Steve,

Thanks for your reply. Do you know of a source for the T/R relay?

73,

Bob AD3K

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of Steve Finch
Sent: Monday, February 23, 2009 4:33 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Problem with TR7A

I had a similar problem. I replaced the T/R relay and the problem
disappeared.

Steve Finch, AIØW
Bailey, CO
ai0w@... <mailto:ai0w%40arrl.net> <mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>
<mailto:ai0w%40arrl.net>

From: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
[mailto:DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com]
On
Behalf Of Bob Spooner
Sent: Monday, February 23, 2009 2:20 PM
To: DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com
Subject: [DrakeRadio] Problem with TR7A

The radio is "almost" working in that the receiver controls all have their
intended effect, but the receive sensitivity is very low. When I try to
transmit, if the microphone is near the speaker I get feedback. The transmit
relay does not pull in. By the symptoms, it seems to be a switching problem,
but the 10 volt transmit and receive signals sequence properly. I have used
Deoxit on the band switch and on the pins for the plug-in boards, and the
power supply board voltages are good. Does anyone have an idea of where to
look for the problem?

73,

Bob AD3K

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1973. RE: [DrakeRadio] Problem with TR7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 13:13:39 UTC
From: Bob Spooner
Topic: 1921 Message: 1973

Jim,

Thanks for the URL. From your description, my board is the old version, and the pictures would be helpful. Please email them to me at rls19 at psu dot edu if they can't be uploaded to the list.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Tuesday, February 24, 2009 8:52 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Problem with TR7A

On Tue, 24 Feb 2009 09:23:56 -0500, Bob Spooner wrote:

>The rig is unmodified, but I'd like to be able to transmit on the WARC bands
>without disabling the inhibit line. Can you point me to a URL that shows how
>to do this mod?

Bob,

The details of the mod depend on which version of the Digital Control board you have. The old version had 9 CMOS logic ICs on it, the new version has four logic ICs and a PROM. I don't have it documented for my web site yet, but you can find a text description in the Drakelist reflector archive or on the Drakelist online forum here:

http://zerobeat.
<http://zerobeat.net/drakelist/smf/index.php/topic,226.0.html>
net/drakelist/smf/index.php/topic,226.0.html

Note that this is the old version board. I haven't worked out the mod for the new board yet because I don't have a sample on hand, but the general idea is the same: trick the radio into thinking every band is a "ham band", and to allow transmit outside of the 500 KHz ham segments. I can also forward a pic of the mod to the old style board if you need it.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.
<http://groups.yahoo.com/group/HyGain_3750/> yahoo.com/group/HyGain_3750/
http://radiojim. <http://radiojim.exofire.net> exofire.net
http://incolor. <http://incolor.inetnebr.com/jshorney> inetnebr.com/jshorney
http://www.nebraska <http://www.nebraskaghosts.org> ghosts.org

[Non-text portions of this message have been removed]

1974. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 16:20:00 UTC
From: Garey Barrell
Topic: 993 Message: 1974

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C Lines and the 2-B receiver.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.

While high resolution scans of the original manuals ARE on the CDs, what they really offer is high resolution color photos of the under chassis and individual PC boards of each unit with all parts identified and keyed to a parts list. This information is not available elsewhere and really makes a difference in servicing these units. Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

1975. Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 18:32:54 UTC
From: Joe
Topic: 1975 Message: 1975

Guys,
I was wondering what I'd need to get my TR-7 on the air for RTTY? I have never tried this mode and I thought it would be fun to try something new.

How would I connect my PC to the TR-7? What software would you recommend? Any tips, perils, pitfalls?
Sorry for the newbie questions but I never considered RTTY (or PSK31) for that matter until recently.
73
Joe, N9JCQ

1976. RE: [DrakeRadio] Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-26 18:39:45 UTC
From: Bob Spooner
Topic: 1975 Message: 1976

Joe,

One thing you might want for RTTY is the power amplifier mod that adds a small amount of emitter resistance to help prevent thermal runaway.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Joe
Sent: Thursday, February 26, 2009 1:33 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Question Regarding RTTY and the TR-7

Guys,
I was wondering what I'd need to get my TR-7 on the air for RTTY? I have never tried this mode and I thought it would be fun to try something new.

How would I connect my PC to the TR-7? What software would you recommend? Any tips, perils, pitfalls?
Sorry for the newbie questions but I never considered RTTY (or PSK31) for that matter until recently.
73
Joe, N9JCQ

[Non-text portions of this message have been removed]

1977. Re: [DrakeRadio] Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-27 00:06:06 UTC
From: don
Topic: 1975 Message: 1977

I would also not run more than about 80Watts out.
You can use the same soundcard interface as you would for psk. several out there you can buy, or make your own if your computer has a serial port.
Lot of software out there as well. Lately I have been using Airlink express.
works with vista as well as older os's.
Good luck !
Don
AD7LL
http://home.pmt.org/~drfrasher/AD7LL.htm
http://www.srcisra.org

----- Original Message -----
From: Bob Spooner
To: DrakeRadio@yahoogroups.com
Sent: Thursday, February 26, 2009 11:39 AM
Subject: RE: [DrakeRadio] Question Regarding RTTY and the TR-7

Joe,

One thing you might want for RTTY is the power amplifier mod that adds a
small amount of emitter resistance to help prevent thermal runaway.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of Joe
Sent: Thursday, February 26, 2009 1:33 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Question Regarding RTTY and the TR-7

Guys,
I was wondering what I'd need to get my TR-7 on the air for RTTY? I
have never tried this mode and I thought it would be fun to try
something new.

How would I connect my PC to the TR-7? What software would you
recommend? Any tips, perils, pitfalls?
Sorry for the newbie questions but I never considered RTTY (or PSK31)
for that matter until recently.
73
Joe, N9JCQ

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[Non-text portions of this message have been removed]

1978. RE: [DrakeRadio] Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-27 01:40:12 UTC
From: Jim Shorney
Topic: 1975 Message: 1978

On Thu, 26 Feb 2009 13:39:45 -0500, Bob Spooner wrote:

>
>One thing you might want for RTTY is the power amplifier mod that adds a
>small amount of emitter resistance to help prevent thermal runaway.

I assume you mean the predriver mod, which only applies to the version 2 predriver board. I've done this to two radios so far, and it seems to work as advertised. It is described in DrakeMods 6 and on WB4HFN/s web site.

Also highly recommended is the FA7 (or equivalent) cooling fan - for ANY mode of operation. Properly installed, it can enhance the overall stability of the radio as well as keep the PA cool.

73

-Jim

--
Ham Radio NU0C
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1979. Re: [DrakeRadio] Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-27 02:25:40 UTC
From: N9JCQ@aol.com
Topic: 1975 Message: 1979

Thanks all for your recommendations. I am one step ahead as I already have an FA-7 in place..

-----Original Message-----
From: Jim Shorney <jshorney@...>
To: DrakeRadio@yahoogroups.com <DrakeRadio@...m>
Sent: Thu, 26 Feb 2009 7:40 pm
Subject: RE: [DrakeRadio] Question Regarding RTTY and the TR-7

On Thu, 26 Feb 2009 13:39:45 -0500, Bob Spooner wrote:

>

>One thing you might want for RTTY is the power amplifier mod that adds a

>small amount of emitter resistance to help prevent thermal runaway.

I assume you mean the predriver mod, which only applies to the version

2 predriver board. I've done this to two radios so far, and it seems to

work as advertised. It is described in DrakeMods 6 and on WB4HFN/s web

site.

Also highly recommended is the FA7 (or equivalent) cooling fan - for

ANY mode of operation. Properly installed, it can enhance the overall

stability of the radio as well as keep the PA cool.

73

-Jim

--

Ham Radio NU0C

TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/

http://radiojim.exofire.net

http://incolor.
inetnebr.com/jshorney

http://www.nebraskaghosts.org

1980. Re: [DrakeRadio] Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-27 02:43:14 UTC
From: Jim Shorney
Topic: 1975 Message: 1980

On Thu, 26 Feb 2009 21:25:40 -0500, N9JCQ@... wrote:

>
>Thanks all for your recommendations. I am one step ahead as I already
>have an FA-7 in place..

Blowing OUT of the radio, I hope... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1981. FS/ WTB E-tek FR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-02-28 14:37:43 UTC
From: hetman45
Topic: 1981 Message: 1981

I have a E-tek (Drake) FR-4 TR frequency display for the TR-3, TR-4, TR-4C, TR-4CW that is currently excess to my needs. I want to sell this unit or trade it/ purchase a FR-4 frequency display. Does anybody have a FR-4 that they are interested in trading/ selling or interested in a FR-4 TR.
TNX, 73, Joel AE2JL

1982. Re: Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-02 13:59:21 UTC
From: Floyd Sense
Topic: 1975 Message: 1982

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Thu, 26 Feb 2009 21:25:40 -0500, N9JCQ@... wrote:
>
> >
> >Thanks all for your recommendations. I am one step ahead as I already
> >have an FA-7 in place..
>
>
> Blowing OUT of the radio, I hope... :)
>
> 73
>
> -Jim

Regarding a fan on the TR7: Quite a while back I switched to a 12VDC fan controlled by a thermistor mounted on the final heat sync. The turn-on temperature is adjustable via a small pot and the fan runs only when it needs to. Sure makes a big difference in overall noise. I tried two different circuits in the 2 TR7s I had - one was a small board from FAR circuits and the other was from a Ham Radio article. The small PC board in both cases mounts where the 110VAC socket was originally, and the pot is accessed through that opening. If anyone is interested, I can post more info.

73, Floyd - K8AC

1983. FS: Drake (E[TEK) FR-4 TR Digital Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-02 14:06:38 UTC
From: hetman45
Topic: 1983 Message: 1983

I have an E-tek FR-4 TR now excess to my needs available. The FR-4 TR was intended to interface directly with the TR-3, TR-4, TR-4C and TR-4CW series of transceivers.Photos available. Price, $199 delivered to the CONUS. 73, Joel AE2JL

1984. Re: [DrakeRadio] Re: Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-02 14:26:32 UTC
From: don
Topic: 1975 Message: 1984

That would be great info to have Floyd. Please post here and / or upload to the files section !!

Don
AD7LL
http://home.pmt.org/~drfrasher/AD7LL.htm
http://www.srcisra.org

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Monday, March 02, 2009 6:59 AM
Subject: [DrakeRadio] Re: Question Regarding RTTY and the TR-7

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Thu, 26 Feb 2009 21:25:40 -0500, N9JCQ@... wrote:
>
> >
> > >Thanks all for your recommendations. I am one step ahead as I already
> > >have an FA-7 in place..
> >
> >
> > Blowing OUT of the radio, I hope... :)
> >
> > 73
> >
> > -Jim

Regarding a fan on the TR7: Quite a while back I switched to a 12VDC fan controlled by a thermistor mounted on the final heat sync. The turn-on temperature is adjustable via a small pot and the fan runs only when it needs to. Sure makes a big difference in overall noise. I tried two different circuits in the 2 TR7s I had - one was a small board from FAR circuits and the other was from a Ham Radio article. The small PC board in both cases mounts where the 110VAC socket was originally, and the pot is accessed through that opening. If anyone is interested, I can post more info.

73, Floyd - K8AC

[Non-text portions of this message have been removed]

1985. Re: [DrakeRadio] Re: Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-02 17:59:37 UTC
From: Jim Shorney
Topic: 1975 Message: 1985

On Mon, 02 Mar 2009 13:59:21 -0000, Floyd Sense wrote:

>Regarding a fan on the TR7: Quite a while back I switched to a 12VDC
>fan controlled by a thermistor mounted on the final heat sync. The
>turn-on temperature is adjustable via a small pot and the fan runs
>only when it needs to.

Hi Floyd,

The thing that bothers me about the idea of a thermostatically controlled fan is temperature variation inside the radio - especially in the PTO area. My experiments with a standard FA7 showed that, properly oriented blowing out, the fan kept the whole radio at a more stable temperature over T/R cycles. I would think that a thermostatically controlled fan would make this less so. Have you done any experiments with temperature probes to see what happens?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

1986. Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-03 04:15:17 UTC
From: kd7bwb
Topic: 1986 Message: 1986

Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired a working TR-4 about 10 days ago, and it worked fine for about 2 days.

Then it stopped tuning up in transmit (but bias current is read on the plate-current meter),
and the S-Meter pins to the right, whenever the transceiver is placed in tuneup CWx mode.

Advice I received so far, range from sticky relay and tube-pin-connections, to one of the dual-triodes has gone unbalanced. I think maybe V18 is one-side dead, but that's just a guess. Am I all wet?

Thanks all!

-Paul Pollock
KD7BWB

1987. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-03 14:08:47 UTC
From: Michael Shelly
Topic: 1986 Message: 1987

The best advise I can give you is the first thing I would do is secure all the tubes maybe even clen the contacts. Then I would make sure the relay is plugged in correctly (if a plug in relay). Then I would clean all the controls and give the unit a good look over with a bright light (*CSI style hi hi).

Also check the power supply connections and adjust the bias voltage. If you don't have a manual GET ONE! You may find a free copy on the Internet.

I feel your pain. I just got a T-4xc and didn't power up right away so the above is a very good start as easy as it sounds. Good luck! If I can fix my Collins 75s-1 RX that I just blew up I hope to chat on air wid you.

Mike
WB2KKI

From: kd7bwb <pbell3@q.com>
To: DrakeRadio@yahoogroups.com
Sent: Monday, March 2, 2009 11:15:17 PM
Subject: [DrakeRadio] Another TR-4 Question <grin> ...

Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired a working TR-4 about 10 days ago, and it worked fine for about 2 days.

Then it stopped tuning up in transmit (but bias current is read on the plate-current meter),
and the S-Meter pins to the right, whenever the transceiver is placed in tuneup CWx mode.

Advice I received so far, range from sticky relay and tube-pin-connection s, to one of the dual-triodes has gone unbalanced. I think maybe V18 is one-side dead, but that's just a guess. Am I all wet?

Thanks all!

-Paul Pollock
KD7BWB

[Non-text portions of this message have been removed]

1988. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-03 19:01:54 UTC
From: Garey Barrell
Topic: 1986 Message: 1988

Paul -

Check to see if V15 is lit. If it is, check voltages on this stage.
Check R53 and R76.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

kd7bwb wrote:
> Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired a working TR-4 about
> 10 days ago, and it worked fine for about 2 days.
>
> Then it stopped tuning up in transmit (but bias current is read on the plate-current
meter),
> and the S-Meter pins to the right, whenever the transceiver is placed in tuneup CWx mode.
>
> Advice I received so far, range from sticky relay and tube-pin-connections, to one of the
> dual-triodes has gone unbalanced. I think maybe V18 is one-side dead, but that's just a
> guess. Am I all wet?
>
> Thanks all!
>
> -Paul Pollock
> KD7BWB
>
>

1989. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-03 23:23:11 UTC
From: Paul Pollock
Topic: 1986 Message: 1989

To Mike WB2KKI,

Thanks muchly for the commentary. I've already done most of that.
I've even gone to the trouble of doing the AC-4 mod circuit board from
'heathkit.com' (just to clear that problem from the list of things to
check; now getting good voltage, and the mild hum prior to the update
is now gone). Bias was set before I even turned the radio on the first
time I got it home (it'sa good idear anytime the radio/PS gets moved).

I'll keep at it though <grin>!

-Paul Pollock
KD7BWB

On Mar 3, 2009, at 7:08 AM, Michael Shelly wrote:

> The best advise I can give you is the first thing I would do is
> secure all the tubes maybe even clen the contacts. Then I would make
> sure the relay is plugged in correctly (if a plug in relay). Then I
> would clean all the controls and give the unit a good look over with
> a bright light (*CSI style hi hi).
>
> Also check the power supply connections and adjust the bias voltage.
> If you don't have a manual GET ONE! You may find a free copy on the
> Internet.
>
> I feel your pain. I just got a T-4xc and didn't power up right away
> so the above is a very good start as easy as it sounds. Good luck!
> If I can fix my Collins 75s-1 RX that I just blew up I hope to chat
> on air wid you.
>
> Mike
> WB2KKI
>
>
>
> _____
> From: kd7bwb <pbell3@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, March 2, 2009 11:15:17 PM
> Subject: [DrakeRadio] Another TR-4 Question <grin> ...
>
> Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired
> a working TR-4 about
> 10 days ago, and it worked fine for about 2 days.
>

> Then it stopped tuning up in transmit (but bias current is read on
> the plate-current meter),
> and the S-Meter pins to the right, whenever the transceiver is
> placed in tuneup CWx mode.
>
> Advice I received so far, range from sticky relay and tube-pin-
> connection s, to one of the
> dual-triodes has gone unbalanced. I think maybe V18 is one-side
> dead, but that's just a
> guess. Am I all wet?
>
> Thanks all!
>
> -Paul Pollock
> KD7BWB
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1990. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-03 23:28:04 UTC
From: Paul Pollock
Topic: 1986 Message: 1990

To Garey K4OAH,

I certainly plan to do that, as soon as I get some time. My buddy that sold the radio, has some spare tubes, and he wants to help. So I'm sure we'll figure it out. I frankly think a tube has just got soft, no big deal. But I'm paying attention, V15 right you are <grin>! Thanks!

-Paul Pollock
KD7BWB

On Mar 3, 2009, at 12:01 PM, Garey Barrell wrote:

> Paul -
>
> Check to see if V15 is lit. If it is, check voltages on this stage.
> Check R53 and R76.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> kd7bwb wrote:
> > Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired a working TR-4 about
> > 10 days ago, and it worked fine for about 2 days.
> >
> > Then it stopped tuning up in transmit (but bias current is read on the plate-current meter),
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> > dual-triodes has gone unbalanced. I think maybe V18 is one-side dead, but that's just a
> > guess. Am I all wet?
> >
> > Thanks all!
> >
> > -Paul Pollock
> > KD7BWB
> >
> >

>

[Non-text portions of this message have been removed]

1991. FS-4 Coax cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-04 00:25:55 UTC
From: Greg
Topic: 1991 Message: 1991

I have an old FS-4 that I use on my R-CO but the 12" jumper cable that came with the FS-4 just isn't long enough to allow me to place the FS-4 where I would like it. Just wondering if this is "special cable" or will just any shielded wire will work. I would like to make a new jumper approx 24 inches in length. Has anyone done this and did it create any problems?

Thanks,
Greg W8NGA

[Non-text portions of this message have been removed]

1992. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-04 22:47:03 UTC
From: Paul Pollock
Topic: 1986 Message: 1992

To Garey K4OAH,

I have checked and substituted the V15, and it's good. R53 looks like it is attached to T11 (r53-1.5kohm) and R76 causes some confusions as there appears to be two(2) R76 resistors. One is a 100-ohm attached to the balanced modulator diode bridge (d1-d4), while the other is attached (thru R51) to V11 and is 1.5-kohm.

I assume you mean the R76 at the balanced modulator?

Sorry this is taking a while, but I'm a working guy. Plus, I haven't read a tube schematic in 30-years+ <grin>!

-Paul Pollock
KD7BWB

On Mar 3, 2009, at 12:01 PM, Garey Barrell wrote:

> Paul -
>
> Check to see if V15 is lit. If it is, check voltages on this stage.
> Check R53 and R76.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> kd7bwb wrote:
> > Hello folks, I'm a new Drake TR-4 owner, so bear with me. I acquired a working TR-4 about
> > 10 days ago, and it worked fine for about 2 days.
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> > Then it stopped tuning up in transmit (but bias current is read on the plate-current meter),
> > and the S-Meter pins to the right, whenever the transceiver is placed in tuneup CWx mode.
> >
> > Advice I received so far, range from sticky relay and tube-pin-connections, to one of the
> > dual-triodes has gone unbalanced. I think maybe V18 is one-side dead, but that's just a
> > guess. Am I all wet?
> >
> > Thanks all!

> >
> > -Paul Pollock
> > KD7BWB
> >
> >
>

[Non-text portions of this message have been removed]

1993. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-04 23:44:02 UTC
From: Garey Barrell
Topic: 1986 Message: 1993

Paul -

Yep, there are TWO R76s in "some" TR-4s.

You might want to make sure you have the correct schematic before you tear out too much hair, there were eight (8) versions, and some of the changes were in the S-Meter circuitry.

I suggested V15, because V15 and V11 combined plate currents are balanced in the S-Meter bridge against the plate current of V17 in most units. I was just guessing based on your "pegged S-Meter" comment.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

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>>> -Paul Pollock
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>>>

1994. WTB: SW band xtals for the R-4B/ 2-C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-05 01:45:45 UTC
From: hetman45
Topic: 1994 Message: 1994

Does anybody out there have any SW band xtals for the above two receivers that they would like to sell? I would be interested in buying them. 73, Joel AE2JL

1995. T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-05 03:51:58 UTC
From: Randy
Topic: 1995 Message: 1995

I'm wondering if any group members that operate a T-4X do so in the AM mode, and if so, what kind of audio reports do you get? It's my understanding that the controlled carrier screen modulation used by Drake in these transmitters is not the best and can often be severely overdriven and as a result, distorted.

Randy - K8HRO

1996. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-05 13:23:24 UTC
From: amfone
Topic: 1995 Message: 1996

Follow the tune up procedure as noted in the manual. Adjust the mic gain accordingly, on air reports will help. The T4X will produce controlled carrier AM which will result in a "bump" upward on the receiver but not bad. Use the T4X with an amp and this will not only increase the signal at the receiving end but reduce the upward indication on the receivers S-meter. As for audio, the Drake as well as many other controlled carrier AM modulators sound very good to excellent. I've used mine many many times and copied audio from many stations
using this mode. It works very well with good audio.

73 Tim
wb8uhz

--- On Wed, 3/4/09, Randy <rfb@...> wrote:
From: Randy <rfb@...>
Subject: [DrakeRadio] T-4X on AM
To: DrakeRadio@yahoogroups.com
Date: Wednesday, March 4, 2009, 10:51 PM

I'm wondering if any group members that operate a T-4X do so in the AM mode, and if so, what kind of audio reports do you get? It's my understanding that the controlled carrier screen modulation used by Drake in these transmitters is not the best and can often be severely overdriven and as a result, distorted.

Randy - K8HRO

[Non-text portions of this message have been removed]

1997. f/s drake L4 amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-05 22:29:04 UTC
From: Jim Jacobs
Topic: 1997 Message: 1997

a couple of months ago i purchased a lot of ham radio items from a long ago past estate, this drake L4 amplifier along with the power supply was put away in a steel cabinet in 1976 and was there untill i purchased it a couple of months back, has not been powered up, or tried at all, , just like the day it was put away, i bought it from grandson, who never got his ham license like he thought he would, i have the tr4x transmitter and its power supply to, also just as the day it was purchased, both the amp and transmitter never had any work, modifications or anything done to them, very good shape,
i am a cb guy and i am not going to use this amp as its way to nice for using it for that, was wondering if anyone in the group might be intersted in purchasing or have something to trade,
just want fair price or something of equal trade, this equipment is very nice, but you will have to do what ever is necessary after sitting this long,,,, contact me at jacobs132@yahoo.com or my cell, 908-278-2350, my name is jim, i just want this stuff goe to some one who can use it for its collector quality and intended use

1998. Re: Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 00:25:21 UTC
From: Floyd Sense
Topic: 1975 Message: 1998

> Hi Floyd,
>
> The thing that bothers me about the idea of a thermostatically
> controlled fan is temperature variation inside the radio - especially
> in the PTO area. My experiments with a standard FA7 showed that,
> properly oriented blowing out, the fan kept the whole radio at a more
> stable temperature over T/R cycles. I would think that a
> thermostatically controlled fan would make this less so. Have you done
> any experiments with temperature probes to see what happens?
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.

No -haven't done any temperature measurements. I keep the fan turn-on temperature rather low, and I don't use the PTO - only a DDS VFO with the TR7.

1999. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-05 00:19:14 UTC
From: Paul Pollock
Topic: 1986 Message: 1999

To Garey K4OAH,

I was given what appear to be the original manual with this TR-4 (even includes the Drake generated spare parts lists, and other misc). So I think I'm safe there <grin>. I'll get to the under-frame work eventually, never fear. I"ll let you know what I find (when I have found those resistors <grin>).

-Paul Pollock
KD7BWB

On Mar 4, 2009, at 4:44 PM, Garey Barrell wrote:

> Paul -
>
> Yep, there are TWO R76s in "some" TR-4s.
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> >>> Thanks all!
> >>>
> >>> -Paul Pollock

> >>> KD7BWB
> >>>
>

[Non-text portions of this message have been removed]

2000. TR7 temperature contolled fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 00:47:26 UTC
From: Floyd Sense
Topic: 1975 Message: 2000

--- In DrakeRadio@yahoogroups.com, "don" <drfrasher@...> wrote:
>
> That would be great info to have Floyd. Please post here and / or upload to the files section !!
>
> Don
> AD7LL
<<snip>>
> ----- Original Message -----
> From: Floyd Sense
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, March 02, 2009 6:59 AM
> Subject: [DrakeRadio] Re: Question Regarding RTTY and the TR-7
<<snip>>

> Regarding a fan on the TR7: Quite a while back I switched to a 12VDC
> fan controlled by a thermistor mounted on the final heat sync. The
> turn-on temperature is adjustable via a small pot and the fan runs
> only when it needs to. Sure makes a big difference in overall noise.
> I tried two different circuits in the 2 TR7s I had - one was a small
> board from FAR circuits and the other was from a Ham Radio article.
> The small PC board in both cases mounts where the 110VAC socket was
> originally, and the pot is accessed through that opening. If anyone
> is interested, I can post more info.
>
> 73, Floyd - K8AC
>

The June, 1994 issue of QST contained one of the articles: "An Automatic Temperature-controlled Fan", on page 41. The info is copyrighted and can't be uploaded to this site, but is available as a PDF file for free to ARRL members at the ARRL website.

The second article titled: "Improving the Drake TR-7" was published in the Summer, 1992 edition of Communications Quarterly. That article described a number of major mods to the TR7, but included the rather simple fan control mod. It's a circuit similar to the QST article and the circuit boards are available from FAR circuits - here's the link: http://www.farcircuits.net/tr71.htm .
The advantage of getting the article and board from FAR is that the article shows you how to mount the board in the space occupied by the AC socket.

One thing I've found important with either of these mods is to enclose the thermistor in a metal housing with some mass. That prevents the fan from cycling on and off while cooling by isolating the thermistor to some degree. In my case, I epoxied the thermistor into a 3/4" piece of 1/8" copper tubing and glued that to the heat sinc with some black hi-temp silicone sealant. I've installed the same circuit in the PS7, mounting the thermistor to one of the heat sinks with silicone.

2001. Re: T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 01:10:38 UTC
From: Randy
Topic: 1995 Message: 2001

Tim,
I'm just curious, but what type of amp do you run with your T-4X?

I also see you're from around the Saginaw area. Perhaps we could have a QSO on 75m sometime. I'm on most every afternoon at 1700ET on 3921kHz. It's called the Michigan Upper Peninsula Net. Check in if you'd like and maybe we could hook up after the net.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, amfone <amfone20000@...> wrote:
>
> Follow the tune up procedure as noted in the manual. Adjust the mic gain accordingly, on air reports will help. The T4X will produce controlled carrier AM which will result in a "bump" upward on the receiver but not bad. Use the T4X with an amp and this will not only increase the signal at the receiving end but reduce the upward indication on the receivers S-meter. As for audio, the Drake as well as many other controlled carrier AM modulators sound very good to excellent. I've used mine many many times and copied audio from many stations
> using this mode. It works very well with good audio.
>
> 73 Tim
> wb8uhz
>

2002. Re: [DrakeRadio] TR7 temperature contolled fan

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 01:14:59 UTC
From: don
Topic: 1975 Message: 2002

Thanks for the info and the links. The cycling you mentioned I have experienced with computer fans that were thermistor controlled. I like the way you mounted yours to solve that. Thanks !!
Don
AD7LL
http://home.pmt.org/~drfrasher/AD7LL.htm
http://www.srcisra.org

----- Original Message -----
From: Floyd Sense
To: DrakeRadio@yahoogroups.com
Sent: Thursday, March 05, 2009 5:47 PM
Subject: [DrakeRadio] TR7 temperature contolled fan

--- In DrakeRadio@yahoogroups.com, "don" <drfrasher@...> wrote:
>
> That would be great info to have Floyd. Please post here and / or upload to the files section !!
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> Don
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> ----- Original Message -----
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[Non-text portions of this message have been removed]

2003. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 01:30:30 UTC
From: Jim Shorney
Topic: 1995 Message: 2003

On Thu, 05 Mar 2009 03:51:58 -0000, Randy wrote:

>I'm wondering if any group members that operate a T-4X do so in the AM mode, and if so, what kind of audio reports do you get? It's my understanding that the controlled carrier screen modulation used by Drake in these transmitters is not the best and can often be severely overdriven and as a result, distorted.

This is true of pretty much any vintage AM transmitter, as they offer
no ALC or overmod control. It's up to the operator to keep things down
to a dull roar. I've used my T-4XC on AM exactly once, and the audio
report was good.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2004. Re: [DrakeRadio] Re: Question Regarding RTTY and the TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 01:34:08 UTC
From: Jim Shorney
Topic: 1975 Message: 2004

On Fri, 06 Mar 2009 00:25:21 -0000, Floyd Sense wrote:

>
>No -haven't done any temperature measurements. I keep the fan turn-on temperature rather low, and I don't use the PTO - only a DDS VFO with the TR7.

Ah, that explains it (showoff... :)). I did think about the
thermostatic fan idea myself, but based on my crude experiments with
PTO temps, I decided just to leave the fan run all the time.

TNX es 73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2005. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 02:45:28 UTC
From: Richard Knoppow
Topic: 1995 Message: 2005

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 05, 2009 5:30 PM
Subject: Re: [DrakeRadio] T-4X on AM

> On Thu, 05 Mar 2009 03:51:58 -0000, Randy wrote:
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> report was good.
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> 73
>
> -Jim
>
The TR-4B has peak limiting on the audio, I assume the
TR-4C must also have audio AGC. My B seems to control levels
quite well. It prevents flat-topping on SSB and should avoid
overmodulation on AM.
Also, I don't know what you mean by "vintage" but older
transmitters than the Drake have ALC and/or audio
compression. The Collins KWS-1 and the S- line are examples.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2006. Re: [DrakeRadio] Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 03:33:41 UTC
From: Garey Barrell
Topic: 1986 Message: 2006

What serial number??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
>
>
> [Non-text portions of this message have been removed]
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>
> ------------------------------------
>
> Yahoo! Groups Links
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>

2007. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 03:41:02 UTC
From: Garey Barrell
Topic: 1995 Message: 2007

The ALC in all of the T-4X / TR-4 transmitters is at RF. There is NO
ALC on either CW or AM, and you can seriously overmodulate on AM.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Jim Shorney" <jshorney@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, March 05, 2009 5:30 PM
> Subject: Re: [DrakeRadio] T-4X on AM
>
>
>
>> On Thu, 05 Mar 2009 03:51:58 -0000, Randy wrote:
>>
>>
>>> I'm wondering if any group members that operate a T-4X do
>>> so in the AM mode, and if so, what kind of audio reports
>>> do you get? It's my understanding that the controlled
>>> carrier screen modulation used by Drake in these
>>> transmitters is not the best and can often be severely
>>> overdriven and as a result, distorted.
>>>
>> This is true of pretty much any vintage AM transmitter, as
>> they offer
>> no ALC or overmod control. It's up to the operator to keep
>> things down
>> to a dull roar. I've used my T-4XC on AM exactly once, and
>> the audio
>> report was good.
>>
>> 73
>>
>> -Jim
>>
>>
> The TR-4B has peak limiting on the audio, I assume the
> TR-4C must also have audio AGC. My B seems to control levels
> quite well. It prevents flat-topping on SSB and should avoid
> overmodulation on AM.
> Also, I don't know what you mean by "vintage" but older

> transmitters than the Drake have ALC and/or audio
> compression. The Collins KWS-1 and the S- line are examples.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>

2008. Re: Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 03:46:54 UTC
From: de_n7ioh
Topic: 1986 Message: 2008

Hi Garey, his serial number is, 31318.

Al, n7ioh

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> What serial number??
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Paul Pollock wrote:
> > To Garey K4OAH,
> >
> > I was given what appear to be the original manual with this TR-4
> > (even includes the Drake generated spare parts lists, and other
> > misc). So I think I'm safe there <grin>. I'll get to the under-frame
> > work eventually, never fear. I"ll let you know what I find (when I
> > have found those resistors <grin>).
> >
> > -Paul Pollock
> > KD7BWB
> >
> > On Mar 4, 2009, at 4:44 PM, Garey Barrell wrote:
> >
> >
> >> Paul -
> >>
> >> Yep, there are TWO R76s in "some" TR-4s.
> >>
> >> You might want to make sure you have the correct schematic before you
> >> tear out too much hair, there were eight (8) versions, and some of the
> >> changes were in the S-Meter circuitry.
> >>
> >> I suggested V15, because V15 and V11 combined plate currents are
> >> balanced in the S-Meter bridge against the plate current of V17 in
> >> most
> >> units. I was just guessing based on your "pegged S-Meter" comment.
> >>
> >> 73, Garey - K4OAH

> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >> Paul Pollock wrote:
> >>
> >>> To Garey K4OAH,
> >>>
> >>> I have checked and substituted the V15, and it's good. R53 looks
> >>>
> >> like
> >>
> >>> it is attached to T11 (r53-1.5kohm) and R76 causes some confusions
> >>>
> >> as
> >>
> >>> there appears to be two(2) R76 resistors. One is a 100-ohm
> >>>
> >> attached to
> >>
> >>> the balanced modulator diode bridge (d1-d4), while the other is
> >>> attached (thru R51) to V11 and is 1.5-kohm.
> >>>
> >>> I assume you mean the R76 at the balanced modulator?
> >>>
> >>> Sorry this is taking a while, but I'm a working guy. Plus, I haven't
> >>> read a tube schematic in 30-years+ <grin>!
> >>>
> >>> -Paul Pollock
> >>> KD7BWB
> >>>
> >>>
> >>> On Mar 3, 2009, at 12:01 PM, Garey Barrell wrote:
> >>>
> >>>
> >>>
> >>>> Paul -
> >>>>
> >>>> Check to see if V15 is lit. If it is, check voltages on this stage.
> >>>> Check R53 and R76.
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
> >>>>
> >>>> kd7bwb wrote:
> >>>>

> >>>>
> >>>>> Hello folks, I'm a new Drake TR-4 owner, so bear with me. I
> >>>>>
> >>>>>
> >>>> acquired a working TR-4 about
> >>>>
> >>>>
> >>>>> 10 days ago, and it worked fine for about 2 days.
> >>>>>
> >>>>> Then it stopped tuning up in transmit (but bias current is read on
> >>>>>
> >>>>>
> >>>> the plate-current meter),
> >>>>
> >>>>
> >>>>> and the S-Meter pins to the right, whenever the transceiver is
> >>>>>
> >>>>>
> >>>> placed in tuneup CWx mode.
> >>>>
> >>>>
> >>>>> Advice I received so far, range from sticky relay and tube-pin-
> >>>>>
> >>>>>
> >>>> connections, to one of the
> >>>>
> >>>>
> >>>>> dual-triodes has gone unbalanced. I think maybe V18 is one-side
> >>>>>
> >>>>>
> >>>> dead, but that's just a
> >>>>
> >>>>
> >>>>> guess. Am I all wet?
> >>>>>
> >>>>> Thanks all!
> >>>>>
> >>>>> -Paul Pollock
> >>>>> KD7BWB
> >>>>>
> >>>>>
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > > ------------------------------------
> > >

> > Yahoo! Groups Links
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>

2009. Re: [DrakeRadio] Re: Another TR-4 Question ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 03:54:42 UTC
From: Garey Barrell
Topic: 1986 Message: 2009

Al -

OK... That is a very late TR-4. Schematic should be 8117030500.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

de_n7ioh wrote:
> Hi Garey, his serial number is, 31318.
>
> Al, n7ioh
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> What serial number??
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> Paul Pollock wrote:
>>
>>> To Garey K4OAH,
>>>
>>> I was given what appear to be the original manual with this TR-4
>>> (even includes the Drake generated spare parts lists, and other
>>> misc). So I think I'm safe there <grin>. I'll get to the under-frame
>>> work eventually, never fear. I"ll let you know what I find (when I
>>> have found those resistors <grin>).
>>>
>>> -Paul Pollock
>>> KD7BWB
>>>

2010. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 05:33:52 UTC
From: Jim Shorney
Topic: 1995 Message: 2010

On Thu, 5 Mar 2009 18:45:28 -0800, Richard Knoppow wrote:

>The TR-4B has peak limiting on the audio, I assume the
>TR-4C must also have audio AGC. My B seems to control levels
>quite well. It prevents flat-topping on SSB and should avoid
>overmodulation on AM.

Peak limiting ALC on SSB only. No control on AM. Perhaps there are some
AM transmitter designs that have some form of compression or limiting,
but not those that I have seen. Even CB radios for the most part didn't
have AM mod limiting until the FCC made them put it in.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2011. Re: [DrakeRadio] Re: T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 07:44:33 UTC
From: amfone
Topic: 1995 Message: 2011

Hi Randy

I use either the L4B or the L7 with the Drake xmiiter.

It would be great to have a qso, I operate a good deal of AM phone on 3.880 or 3.885 or we could make a sked. I will also check into the UP net, I've done this from time to time as well..

73 Tim
WB8UHZ

--- On Thu, 3/5/09, Randy <rfb@...> wrote:
From: Randy <rfb@...>
Subject: [DrakeRadio] Re: T-4X on AM
To: DrakeRadio@yahoogroups.com
Date: Thursday, March 5, 2009, 8:10 PM

Tim,

I'm just curious, but what type of amp do you run with your T-4X?

I also see you're from around the Saginaw area. Perhaps we could have a QSO on 75m sometime. I'm on most every afternoon at 1700ET on 3921kHz. It's called the Michigan Upper Peninsula Net. Check in if you'd like and maybe we could hook up after the net.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogro ups.com, amfone <amfone20000@ ...> wrote:

>

> Follow the tune up procedure as noted in the manual. Adjust the mic gain accordingly, on air reports will help. The T4X will produce controlled carrier AM which will result in a "bump" upward on the receiver but not bad. Use the T4X with an amp and this will not only increase the signal at the receiving end but reduce the upward indication on the receivers S-meter. As for audio, the Drake as well as many other controlled carrier AM modulators sound very good to excellent. I've used mine many many times and copied audio from many stations

> using this mode. It works very well with good audio.

>

> 73 Tim

> wb8uhz

>

[Non-text portions of this message have been removed]

2012. Re: [DrakeRadio] f/s drake L4 amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 07:46:18 UTC
From: amfone
Topic: 1997 Message: 2012

Hello

Where are you located?

thanks tim

--- On Thu, 3/5/09, Jim Jacobs <jacobs132@...> wrote:
From: Jim Jacobs <jacobs132@...>
Subject: [DrakeRadio] f/s drake L4 amplifier
To: DrakeRadio@yahoogroups.com
Date: Thursday, March 5, 2009, 5:29 PM

a couple of months ago i purchased a lot of ham radio items from a long ago past estate, this drake L4 amplifier along with the power supply was put away in a steel cabinet in 1976 and was there untill i purchased it a couple of months back, has not been powered up, or tried at all, , just like the day it was put away, i bought it from grandson, who never got his ham license like he thought he would, i have the tr4x transmitter and its power supply to, also just as the day it was purchased, both the amp and transmitter never had any work, modifications or anything done to them, very good shape,

i am a cb guy and i am not going to use this amp as its way to nice for using it for that, was wondering if anyone in the group might be intersted in purchasing or have something to trade,

just want fair price or something of equal trade, this equipment is very nice, but you will have to do what ever is necessary after sitting this long,,,, contact me at jacobs132@yahoo. com or my cell, 908-278-2350, my name is jim, i just want this stuff goe to some one who can use it for its collector quality and intended use

[Non-text portions of this message have been removed]

2013. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 20:35:38 UTC
From: Richard Knoppow
Topic: 1995 Message: 2013

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 05, 2009 9:33 PM
Subject: Re: [DrakeRadio] T-4X on AM

> On Thu, 5 Mar 2009 18:45:28 -0800, Richard Knoppow wrote:
>
>>The TR-4B has peak limiting on the audio, I assume the
>>TR-4C must also have audio AGC. My B seems to control
>>levels
>>quite well. It prevents flat-topping on SSB and should
>>avoid
>>overmodulation on AM.
>
>
> Peak limiting ALC on SSB only. No control on AM. Perhaps
> there are some
> AM transmitter designs that have some form of compression
> or limiting,
> but not those that I have seen. Even CB radios for the
> most part didn't
> have AM mod limiting until the FCC made them put it in.
>
> 73
>
> -Jim
>
Well, if you are saying that NO commercial AM
transmitter had any sort of limiting check the famous
Collins KW-1 which had a clipper built in. Not quite the
same thing as a dynamic gain control but a limiter
nontheless.
I will have to examine the schematics for my T-4B again,
I thought the limiter worked on audio.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2014. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-06 22:13:46 UTC
From: Jim Shorney
Topic: 1995 Message: 2014

On Fri, 6 Mar 2009 12:35:38 -0800, Richard Knoppow wrote:

>Well, if you are saying that NO commercial AM
>transmitter had any sort of limiting

I think if you re-read my post carefully, you will see that is not what
I am saying.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2015. Re: [DrakeRadio] T-4X on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-07 00:38:40 UTC
From: Richard Knoppow
Topic: 1995 Message: 2015

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, March 06, 2009 2:13 PM
Subject: Re: [DrakeRadio] T-4X on AM

> On Fri, 6 Mar 2009 12:35:38 -0800, Richard Knoppow wrote:
>
>>Well, if you are saying that NO commercial AM
>>transmitter had any sort of limiting
>
> I think if you re-read my post carefully, you will see
> that is not what
> I am saying.
>
> 73
>
> -Jim

What you wrote was:

Perhaps there are some
AM transmitter designs that have some form of compression or
limiting,
but not those that I have seen. Even CB radios for the most
part didn't
have AM mod limiting until the FCC made them put it in.

I just pointed out a single commercial design that did
have "some form" of compression or limiting granted that a
peak clipper is a pretty crude limiter.

I am not arguing about the Drake and especially not about
the T-4C since I have not been in one. If it has RF limiting
that would not prevent AM overmodulating, an _audio_ limiter
would, I don't think we are arguing about that. You have put
a doubt in my mind about what exactly both transmitters have
in them. I will have to trace out the schematics.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2016. f/s drake L4 amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-07 01:12:49 UTC
From: Jim Jacobs
Topic: 1997 Message: 2016

very good condition drake l4 amplifier and power supply, , put away in a steel cabinet when owner passed in 1976 and not powered up since, all original, unmolested collector quality, taking offers for it, i am a cb person, i just dont want to use this amp for 11 meters, should go to a drake ham guy, , i took cover off of amp to see what condition every thing appeared and all looks nice, 2 3-400z's says amperex 8163 on tubes.
i am open to trades to, let me know, i do not have the capability to use this also because no 220 outlets in our rental home and a already over taxed 110 circuit, this not another ebay like story,
contact jim at jacobs132@...
cell# 908-278-2350
location new jersey

2017. 17 & 12m xtals for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-07 04:06:46 UTC
From: david.rose@snet.net
Topic: 2017 Message: 2017

If all goes well, I might be buying a TR-7/PS-7 tomorrow. Not sure if it has xtals for 17 & 12m. Are xtals available? Might someone have a pair they'd like to sell? If I do get the rig, I'll post another e-mail looking for the xtals.

73

Dave KW1V

2018. Re: [DrakeRadio] 17 & 12m xtals for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-07 04:23:59 UTC
From: Jim Shorney
Topic: 2017 Message: 2018

On Sat, 07 Mar 2009 04:06:46 -0000, david.rose@... wrote:

>If all goes well, I might be buying a TR-7/PS-7 tomorrow. Not sure if it has xtals for 17 & 12m. Are xtals available? Might someone have a pair they'd like to sell? If I do get the rig, I'll post another e-mail looking for the xtals.
>

A TR7 requires no crystals to cover alll bands, 160-10 meters.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2019. TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-08 00:16:18 UTC
From: david.rose@snet.net
Topic: 1046 Message: 2019

I did buy the TR-7 today and it's working ok; have made several cw qso's on 40m. I posted a message yesterday about 17 & 12m. There was no manual with the rig so I went to WB4HFN's Drake page and looked at a manual and plan on printing one later. Now unless I'm mistaken I need the AUX-7 board, correct? If not the case can someone explain how to get it to work on 17 & 12m?

Thanks.

Dave KW1V

2020. RE: [DrakeRadio] TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-08 00:27:53 UTC
From: Jim Chaggaris
Topic: 1046 Message: 2020

Dave,

Here you go.->
http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-10.htm

73,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of david.rose@...
Sent: Saturday, March 07, 2009 6:16 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-7

I did buy the TR-7 today and it's working ok; have made several cw qso's on 40m. I posted a message yesterday about 17 & 12m. There was no manual with the rig so I went to WB4HFN's Drake page and looked at a manual and plan on printing one later. Now unless I'm mistaken I need the AUX-7 board, correct? If not the case can someone explain how to get it to work on 17 & 12m?

Thanks.

Dave KW1V

[Non-text portions of this message have been removed]

2021. Re: [DrakeRadio] TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-08 09:10:10 UTC
From: Jim Shorney
Topic: 1046 Message: 2021

On Sun, 08 Mar 2009 00:16:18 -0000, david.rose@... wrote:

>I did buy the TR-7 today and it's working ok; have made several cw qso's on 40m. I posted a message yesterday about 17 & 12m. There was no manual with the rig so I went to WB4HFN's Drake page and looked at a manual and plan on printing one later. Now unless I'm mistaken I need the AUX-7 board, correct? If not the case can someone explain how to get it to work on 17 & 12m?

You do not need the AUX7 board, that just makes it handy. There are a couple of methods. One is the "allband transmit mod", which will enable transmit on all the 500 KHz segments accessible with the Up/Down pushbottons (except below about 1.7 MHz). Your radio may already have this. The common method of doing this is to cut a trace on the bottom of the parent board, as mentioned by N9WW on WB4HFN's web site; this is bad, even though this mod was published by Drake. The reason it is bad is it effectively disables a control signal that will inhibit transmit if the PLL circuit goes out of lock. It also prevents the addition of a worthwhile modification published by GW4ALG that eliminates a transmit spike that can occur in the TR7 when first powered on. I've worked out a better allband transmit mod that does not disable the out of lock signal, details available on request.

The other method is to add some diodes to the bottom of the parent board to "fake" an AUX7. Details are on the Drake Museum website and (I believe) the Drakelist website, among others. There is also an eBay seller offering these as a kit. For convenience sake, this is probably the way to go, and it will save wear and tear on the Up/Down buttons. You can also add 0-1.5 MHz coverage with this method, but doing both at the same time requires a lot of diodes in a small space, and gets hairy. It's also possible to homebrew an AUX7, there's a good article on WB4HFN on one way to do it. It's just diodes and connectors.

I believe the owner's manual is also available on several web sites, WB4HFN, mods.dk, and others. A low-res copy of the service manual is also floating around for free download, or you can buy a good hi-res version from Hamanuals or on eBay. The Hamanuals version has a hyperlinked index, which is really handy, but does not cover all the later revisions. There is a wealth of information on the internet on the Drake stuff, use Google and you will be surprised what you turn up. Just about any question you might have can probably be answered by searching the Drakelist archive.

73

-Jim (7-line owner)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2022. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-09 04:48:11 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2022

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2023. R4A VFO HELP/ SCHEMATIC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-10 16:08:49 UTC
From: Sprint
Topic: 2023 Message: 2023

The following request is reposted to the general readership for W1FU.
(Joe-WA6RKN, Ass't Moderator)

****

Gentlemen,

I am a newbie to the group and could sure use some help.

I recently picked up an old r4A and t4x, both in reasonable condition, and cleaned up pretty nicely.

However, the big problem is that the green , red, and black striped wires from the vfo are disconnected from radio,it looks like it was removed for cleaning or something. Anyway, here is my problem, the drake r4A book and schematic appear to be different from the radio itself. Even the underside picture (in my book) shows the vfo wires going to a small board under the audio board. My radio does not have this "extra" little board. It doesn't appear that it was removed, or that there has been any "mods" to it. Schematic is differnt from radio.

Where there changes in the design in the r4A's as they evolved?

My r4A serial # 6899
schematic drawing : 1026665400

Sure could use some help finding out where to connect VFO AND WOULD APPRECIATE IT GREATLY.

Thanks,
Ed
W1FU

OTHER STUFF IN LINE FOR REHABILITATION:
T4X # 13222B
R4B # 8869G
T4XC # 25143

2024. Fw: R4A VFO HELP/ SCHEMATIC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-11 02:53:31 UTC
From: don
Topic: 2024 Message: 2024

----- Original Message -----
From: Edward Smith
To: DrakeRadio-owner@yahoogroups.com
Sent: Tuesday, March 10, 2009 9:17 AM
Subject: R4A VFO HELP/ SCHEMATIC

Gentlemen,

I am a newbie to the group and could sure use some help.

I recently picked up an old r4A and t4x, both in reasonable condition, and cleaned up pretty nicely.

However, the big problem is that the green , red, and black striped wires from the vfo are disconnected from radio,it looks like it was removed for cleaning or something. Anyway, here is my problem, the drake r4A book and schematic appear to be different from the radio itself. Even the underside picture (in my book) shows the vfo wires going to a small board under the audio board. My radio does not have this "extra" little board. It doesn't appear that it was removed, or that there has been any "mods" to it. Schematic is differnt from radio.

Where there changes in the design in the r4A's as they evolved?

My r4A serial # 6899
schematic drawing : 1026665400

Sure could use some help finding out where to connect VFO AND WOULD APPRECIATE IT GREATLY.

Thanks,
Ed
W1FU

OTHER STUFF IN LINE FOR REHABILITATION:
T4X # 13222B
R4B # 8869G
T4XC # 25143

[Non-text portions of this message have been removed]

2025. Re: R4A VFO HELP/ SCHEMATIC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-11 16:49:29 UTC
From: Garey Barrell
Topic: 2023 Message: 2025

Ed -

There are four versions of the R-4A, and that is the correct
schematic. You have a Version 4, the last one before the R-4B.

Drake didn't always change the manual when changes were made in the
hardware. They used the original manual, including the photos, (and
Voltage / Resistance charts,) and just changed the schematic.

Attached is a photo of the PTO / Audio Board area. The White/Red wire
is the DC power, White/Black is Ground, and White/Green is RF Out.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

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> going to a small board under the audio board. My radio does not have
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> Thanks,
> Ed
> W1FU

>
> OTHER STUFF IN LINE FOR REHABILITATION:
> T4X # 13222B
> R4B # 8869G
> T4XC # 25143
>

2026. RCS-4 remote antenna switch help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 00:34:57 UTC
From: w8nga
Topic: 2026 Message: 2026

I have found the outdoor switch box for the Drake RCS-4. Just wondering if anyone knows the voltage for the motor? I am assuming that its 24 or 28 volts but would like to know for sure before putting power to it to test it out.

Thanks,
Greg W8NGA

2027. C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 01:15:39 UTC
From: pf596
Topic: 2027 Message: 2027

At a hamfest today in Michigan I purchased an admitted project radio, a TR-3. After opening the radio I found someone had removed the variable capacitor designated as C-130. Any help in the value of this capacitor and info in finding a replacement would be greatly appreciated. Whoever took the capacitor was nice enough to leave the mounting screws taped in place. Thanks in advance, Bob KC9MTW

2028. TR4 No Transmit Drive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 03:07:36 UTC
From: wa4zzw
Topic: 2028 Message: 2028

I bought a late model TR4 at a ham fest recently.
The receive seems to work but I get no drive on transmit.
I can see no output with a scope at the plate of V4 but I do see signal on the grid.
I have plate and screen voltage and a little cathode voltage.

Also does the sideband switch seems strange but maybe its normal.
For example when switching from 80 to 40 meters the indicator lamp goes from Lower to Upper.
Thanks,
Bob WA4ZZW
Decatur, AL

2029. Re: [DrakeRadio] C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 03:08:10 UTC
From: Garey Barrell
Topic: 2027 Message: 2029

Bob -

The original is an Erie 557 series ceramic trimmer, 8-50 pF, N750. It was only used in the TR-3 and very early TR-4 transceivers, but was used in almost all of the T-4X/A/B series transmitters.

Surplus Sales of Nebraska has the trimmer, but I don't know if it is N750 or not, or just how critical that might be. I've never had to replace one, the couple that have given trouble have been repairable by disassembling and cleaning. Your best bet would be one from a parts unit if you can find one. There just aren't many parts units around because they can almost always be repaired!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

pf596 wrote:
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>
>
>
>
>

2030. Re: [DrakeRadio] C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 04:04:52 UTC
From: DALE PARFITT
Topic: 2027 Message: 2030

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, March 14, 2009 11:08 PM
Subject: Re: [DrakeRadio] C-130 Gone Missing

I do not know what the form factor is, but I have a lot of Erie ceramic variables- roughy rectangular with rounded corners. Same size that Collins used in their S line.
I have N500 7-45pF and some N300's.

Dale W4OP

[Non-text portions of this message have been removed]

2031. R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 10:14:24 UTC
From: Victor Waddington
Topic: 1070 Message: 2031

Hi
I'm watching an R-4B on Ebay which looks pretty good and is stated as working OK. The seller says that the PTO has a bit of play on it. Never having had a 4B I have no idea of the PTO assembly or drive gears. Whilst I appreciate that there could be many causes for the play is this a general common fault that can be put right?
Vic
G4JSS

2032. Re: [DrakeRadio] C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 15:59:31 UTC
From: Garey Barrell
Topic: 2027 Message: 2032

Dale -

That may work. These are the "D" shaped phenolic with two mounting
holes, and the round ceramic "button" held in by the "tripod", just like
the Collins caps.

If they fit, the N500 is certainly closer than an NP0 ! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, March 14, 2009 11:08 PM
> Subject: Re: [DrakeRadio] C-130 Gone Missing
>
>
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> I have N500 7-45pF and some N300's.
>
> Dale W4OP
>
>
>

2033. Re: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 16:07:33 UTC
From: Garey Barrell
Topic: 1070 Message: 2033

Vic -

It's _PROBABLY_ an easy fix. There is a ball bearing race at the front of the PTO "gearbox" that supports the main shaft. This bearing is loaded by a single ball at the rear of the shaft that has an allen-head setscrew at the rear of the gearbox. Could be simply an adjustment of this screw. Set too loose, the front shaft wobbles and allows lateral movement of the MAIN TUNING knob. In extreme cases one of more of the balls in the front bearing fall out and then it's REALLY wobbly! :-) Still, easy fix as the balls are standard 0.125" steel balls.

By the way, the PTO is "Direct Drive", all the gearing is just to drive the dial plates.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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Victor Waddington wrote:
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> Vic
> G4JSS
>
>

2034. Re: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 16:24:07 UTC
From: g4jss@tiscali.co.uk
Topic: 1070 Message: 2034

Hello Garey

Thanks for that info. I understand what you mean but never having had a 4B it's a bit difficult to visualise. Going to have a bid at it and then take it from there.

Thanks again

Vic

----Original Message----
From: k4oah@...
Date: 15/03/2009 16:07
To: <DrakeRadio@yahoogroups.com>
Subj: Re: [DrakeRadio] R-4B

Vic -

It's _PROBABLY_ an easy fix. There is a ball bearing race at the front of the PTO "gearbox" that supports the main shaft. This bearing is loaded by a single ball at the rear of the shaft that has an allen-head setscrew at the rear of the gearbox. Could be simply an adjustment of this screw. Set too loose, the front shaft wobbles and allows lateral movement of the MAIN TUNING knob. In extreme cases one of more of the balls in the front bearing fall out and then it's REALLY wobbly! :-) Still, easy fix as the balls are standard 0.125" steel balls.

By the way, the PTO is "Direct Drive", all the gearing is just to drive the dial plates.

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Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

2035. Re: [DrakeRadio] RCS-4 remote antenna switch help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 17:25:55 UTC
From: Jim Shorney
Topic: 2026 Message: 2035

On Sun, 15 Mar 2009 00:34:57 -0000, w8nga wrote:

>I have found the outdoor switch box for the Drake RCS-4. Just wondering if anyone knows the voltage for the motor? I am assuming that its 24 or 28 volts but would like to know for sure before putting power to it to test it out.

A rare find indeed. I've got the inside half of a CS-7, which is
usually all that you find.

The manual for the CS-7 is available on the net for download, either at
mods.dk or one of the many Drake-related web sites. It likely uses the
same hardware.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2036. Re: [DrakeRadio] C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 17:28:19 UTC
From: DALE PARFITT
Topic: 2027 Message: 2036

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 15, 2009 11:59 AM
Subject: Re: [DrakeRadio] C-130 Gone Missing

Hi Gare et al,
While I do have some of the ceramic phenolic, none are negative temps and are low value. The phenolic/ceramic have a 0.3" hole-hole spacing while the all ceramic (of which I have many more) are 0.45 center-center and slightly larger overall.
If one of these will suffice- all I require is a couple dollars to cover mailing in a padded envelope.

Dale W4OP

[Non-text portions of this message have been removed]

2037. Re: [DrakeRadio] C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-15 17:43:15 UTC
From: Garey Barrell
Topic: 2027 Message: 2037

Dale -

OK. These are the 0.3" hole spacing. I just looked at a TR-3, and the same trimmer cap is used in the crystal calibrator, so that's another possible source. If nothing else he can pull the one from the calibrator and use it for the Carrier Oscillator until he can find another one!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

DALE PARFITT wrote:
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, March 15, 2009 11:59 AM
> Subject: Re: [DrakeRadio] C-130 Gone Missing
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> If one of these will suffice- all I require is a couple dollars to cover mailing in a padded envelope.
>
> Dale W4OP
>
>
>

2038. Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 01:13:42 UTC
From: david.rose@snet.net
Topic: 2038 Message: 2038

Just purchased a TR-7 and like the rig very much. I have asked and received advice on how to get rig to work on WARC bands and 60m. What I'd like to know from the group is what is the best route to do this - getting AUX-7 board or cutting the trace under the parent board. Pros? Cons? Any info will help. I am also looking for a Drake 7077 mic with 4 pin connector...does anyone out there have one they no longer use? I will appreciate any info and BTW an excellent article in the April issue of QST on updating the TR-7 to make it equal with today's rigs.

73

DAve KW1V

2039. Re: [DrakeRadio] Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 02:48:29 UTC
From: Jim Shorney
Topic: 2038 Message: 2039

Hi Dave,

On Mon, 16 Mar 2009 01:13:42 -0000, david.rose@... wrote:

>Just purchased a TR-7 and like the rig very much. I have asked and received advice on how to get rig to work on WARC bands and 60m. What I'd like to know from the group is what is the best route to do this - getting AUX-7 board or cutting the trace under the parent board. Pros? Cons?

Don't cut the trace. This is a BAD mod, for reaons I previously described. Transmit on all bands except for 2.5 and 5.0 MHz (60 Meters) can be accomplished with a simple mod on the DR7 board as described by GW4ALG here:

http://www.alg.myzen.co.uk/radio/tr7/mods.htm#15

This mod preserves the Out-Of_Lock signal from the VCO, which is a desirable thing. You get to the desired band segments by using the up/down pushbuttons, just as before. The only difference is you can transmit there as well, after the mod.

If 60 meter coverage is desired, two simple cuts to the Digital Control board under the DR7, in lieu of the GW4ALG mod above, will do it without disabling the OOL signal. You will find a discussion of that here:

http://zerobeat.net/drakelist/smf/index.php/topic,226.0.html

If price is no object, you can purchase an AUX7. They do show up on the 'bay, but are horribly overpriced for what they are (IMO). There is no real advantage to a real AUX7 unless you want the option for fixed crystal-controlled channels. You can easily build one (without the crystal sockets and associated parts) very inexpensively, as described here:

http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/AUX-7%20board.pdf

Again, DON'T cut that trace on the parent board. I can't imagine what Drake was thinking when they came up with that mod. The reason for the OOL inhibit is to keep you from unknowingly transmitting out of band, and potentially interfering with other services, if the PLL circuit fails to lock for some reason. There may also be the potential for damage to the PA and TX filters, depending on where the transmit signal lands. There is a better way.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2040. Re: [DrakeRadio] TR7 Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 03:52:09 UTC
From: Jim Pruitt
Topic: 2040 Message: 2040

Jim,

Doesn't 60 meters specifically forbid vfo coverage and must be "channelized" and usb in order to be legal? If that is the case then the TR7 would not follow the rules (channelized) if modified for general coverage transmit. Also isn't the 5.0 mhz band a forbidden portion for the TR7 due to IF's in that range? I was thinking I had seen a link to a homebrewe version of the AUX7 but your link to
http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/AUX-7%20board.pdf
was the version I had seen.
Even if you had an Aux7, where would you get custom ground crystals these days? I have tried to deal with International and given up. Jan is there but their web site is not the best.

Thank you.

Jim Pruitt

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 15, 2009 7:48 PM
Subject: Re: [DrakeRadio] Advice please....

Hi Dave,

On Mon, 16 Mar 2009 01:13:42 -0000, david.rose@... wrote:

>Just purchased a TR-7 and like the rig very much. I have asked and received
>advice on how to get rig to work on WARC bands and 60m. What I'd like to
>know from the group is what is the best route to do this - getting AUX-7
>board or cutting the trace under the parent board. Pros? Cons?

Don't cut the trace. This is a BAD mod, for reaons I previously described. Transmit on all bands except for 2.5 and 5.0 MHz (60 Meters) can be accomplished with a simple mod on the DR7 board as described by GW4ALG here:

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If 60 meter coverage is desired, two simple cuts to the Digital Control board under the DR7, in lieu of the GW4ALG mod above, will do it without disabling the OOL signal. You will find a discussion of that

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http://zerobeat.net/drakelist/smf/index.php/topic,226.0.html

If price is no object, you can purchase an AUX7. They do show up on the 'bay, but are horribly overpriced for what they are (IMO). There is no real advantage to a real AUX7 unless you want the option for fixed crystal-controlled channels. You can easily build one (without the crystal sockets and associated parts) very inexpensively, as described here:

http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/AUX-7%20board.pdf

Again, DON'T cut that trace on the parent board. I can't imagine what Drake was thinking when they came up with that mod. The reason for the OOL inhibit is to keep you from unknowingly transmitting out of band, and potentially interfering with other services, if the PLL circuit fails to lock for some reason. There may also be the potential for damage to the PA and TX filters, depending on where the transmit signal lands. There is a better way.

73

-Jim

--
Ham Radio NU0C

2041. Re: [DrakeRadio] TR7 Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 05:46:08 UTC
From: Jim Shorney
Topic: 2040 Message: 2041

Hi Jim,

On Sun, 15 Mar 2009 20:52:09 -0700, Jim Pruitt wrote:

>Doesn't 60 meters specifically forbid vfo coverage and must be "channelized"
>and usb in order to be legal?

60 Meters is channelized, but only in the sense that you are only permitted to operate on the four authorized frequencies. I believe the wording is something like "centered on" such-and-such. If you look at the ARRL ham band chart that is available for download, they give you the center channel frequency and the specific frequency that you must tune your VFO to in order to be centered on the required channel. The Icom chart that I have handy gives the same information.

>Also isn't the 5.0 mhz band a forbidden portion for the TR7 due to IF's in
>that range?

I think that's true of the 4-line rigs, but I just checked the AUX7 instruction brochure - there is no prohibition on transmit in the 5.0 MHz band. I presume this is due to the upconversion and the tight shielding of the radio, although there might still be certian discreet frequencies that could be problematic.

>Even if you had an Aux7, where would you get custom ground crystals these
>days? I have tried to deal with International and given up. Jan is there
>but their web site is not the best.

I don't see why that would be a problem, the exact specs to cut the crystals are in the AUX7 instructions, as are instructions for calculating the crystal frequency. I don't think I've ever heard of anyone actually doing it, though. I could see it being convenient if you were running a regular net, or perhaps for convenience on 60 Meters.

Now that you have me thinking crazy thoughts, I can see running the control lines outside the radio and building a "Super-AUX" box with as many band positions and/or crystal sockets as you wanted. Or a box with a mondo rotary switch (or rotary chopper feeding a PIC) that would step you in 500 KHz steps from 0 to 29.5. You could even eliminate the bandswitch entirely and have relays control the filters, just like the rice boxes. That would be cool...

73

-Jim (but no TX between 26.5-28.0, of course)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2042. Re: [DrakeRadio] Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 06:04:51 UTC
From: Jim Shorney
Topic: 2038 Message: 2042

On Mon, 16 Mar 2009 01:13:42 -0000, david.rose@... wrote:

>BTW an excellent article in the April issue of QST on updating the TR-7 to make it equal with today's rigs.

I missed this comment. I don't get QST. Equal in what way? The reciever is already superior to most "modern" rigs, the tranmitter is bulletproof and has stellar audio. What more can a ham ask for? :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2043. Re: Advice please....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-16 16:18:42 UTC
From: Al Scanandoah
Topic: 2038 Message: 2043

I pored over the article the moment QST arrived, and then downloaded the expanded version to view. Unfortunately, although the article claims to address synthesizer phase noise, that is not the case. I'll have to send the author an e-mail to see if it was somehow omitted.

Al, K2ZN

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 16 Mar 2009 01:13:42 -0000, david.rose@... wrote:
>
> >BTW an excellent article in the April issue of QST on updating the TR-7 to make it equal with today's rigs.
>

2044. Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-17 16:47:27 UTC
From: john baker
Topic: 2044 Message: 2044

Hi guys,
Has anyone tried to operate multiple radios with the same power supply (AC4), not at the same time, of course? With limited desk space, I was thinking of making a 'Y' adapter to connect two 4 series rigs to a single AC4. Extension would be the second benifit. My concern would be that, even though one rig would be switched off, there would be malacious voltage into it while operating the other. Would the off radio circuits be protected or would this be something like using a splitter instead of a duplexer on an antenna?

...likewise with splitting the MS4 speaker between two rigs.

I am afraid I don't have that much confidence in my electronics skills yet, nor the time to develop them properly.

God bless
73
jb
kg6biw

2045. i0cg DDS VFO DDS4 Project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 15:18:40 UTC
From: captcurt2000
Topic: 2045 Message: 2045

Anyone have any information on whether this project is still viable or available parts pcs, code, etc?

i0cg Giulliano's 9951 DDS4 Project.

Thanks

Curt
KU8L

2046. Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 15:20:02 UTC
From: captcurt2000
Topic: 2046 Message: 2046

HAsn't failed yet, but would like a spare.

Thanks

Curt

2047. Re: [DrakeRadio] Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 16:10:59 UTC
From: K5vse-Mike
Topic: 2046 Message: 2047

Here is the info from the last one I bought from Newark.

Newark In One Part #:45F032; Plug In Relay Switch Function:3PDT; Contact Carry Current:5A; Coil Voltage DC Max:24V; Mounting Type: Socket; Coil Resistance:472Ohm; Contact Carrying Power:1.2W; Contact Rating:10A; Relay Type: General Purpose; Voltage Rating:24V
Quantity: 1 @ $45.230 = $45.23

Hope this helps you out.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2048. Re: [DrakeRadio] Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 16:56:02 UTC
From: Garey Barrell
Topic: 2046 Message: 2048

Mike -

Is that relay still working?? That looks to be a severe overload on the 6EV7 relay tube. The tube data specifies a 2500 ohm relay coil, and all the other Drake transmitters use a 48VDC relay, which is about 1800 ohms, with an additional series resistor of 1500 ohms.

I'd suggest a P&B / TYCO KA-14DG-48, would be a better choice. Unfortunately, relays of this type are an endangered species, with BIG prices.

Drake offered a small PC board to mount the plug-in relay used in the T-4XC and TR-4C. John Kriner had some of those, but I don't think he has them any more. That relay is only about $15. May be time to make another run of boards!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

K5vse-Mike wrote:
> Here is the info from the last one I bought from Newark.
>
> Newark In One Part #:45F032; Plug In Relay Switch Function:3PDT; Contact
> Carry Current:5A; Coil Voltage DC Max:24V; Mounting Type: Socket; Coil
> Resistance:472Ohm; Contact Carrying Power:1.2W; Contact Rating:10A; Relay
> Type: General Purpose; Voltage Rating:24V
> Quantity: 1 @ $45.230 = $45.23
>
> Hope this helps you out.
>
> 73,
> Mike-K5VSE
>
>
>

2049. Re: [DrakeRadio] Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 18:58:03 UTC
From: K5vse-Mike
Topic: 2046 Message: 2049

Hi Garey,

I got that number from Bill Frost a few years back, and it's still working in two of my T4-XC's. So I suppose they are all right. I use one of them daily, and I have never even turned it off for at least three years. It just keeps on a tickin like the old Timex watches. LOL

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2050. Re: [DrakeRadio] Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 19:01:45 UTC
From: K5vse-Mike
Topic: 2046 Message: 2050

Hey Garey,
I forgot, I had bought one of those PC boards from John a few years back just in case my TR-4 began to act up. I put it where I would not lose it. Now I can't find it! It's in my shop somewhere along with the spare key to my riding mower. They are both hiding for the present.

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2051. Re: [DrakeRadio] Source for TR Relay for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-18 19:54:51 UTC
From: Garey Barrell
Topic: 2046 Message: 2051

Mike -

Hard to argue with the source.... Or success! :-) However.....

You're exceeding the MAX cathode current of the 6EV7 by a factor of at least two. According to the original Voltage chart, the original relay drops 50V across the relay coil, with 200V on the plate. IF the original relay coil was in fact 470 ohms, that's five times the MAX cathode current for a 6EV7 (22 mA), and twice the specified current for the relay coil (51 mA).

I still say it should be a 48VDC coil, as in the T-4XC. That means a 2500 ohm coil, plus the 1500 ohm resistor, for 20 ma current. This is well within the max current rating for the relay (28 mA) and the 6EV7 (22 mA).

Of course all of this only matters when in transmit, maybe you're just a man of few words!! :-)

73, Garey - K4OAH
Glen Allen, VA

K5vse-Mike wrote:
> Hi Garey,
>
> I got that number from Bill Frost a few years back, and it's still working
> in two of my T4-XC's. So I suppose they are all right. I use one of them
> daily, and I have never even turned it off for at least three years. It just
> keeps on a tickin like the old Timex watches. LOL
>
> 73,
> Mike-K5VSE
>
>
>

2052. Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-20 01:58:35 UTC
From: pf596
Topic: 2027 Message: 2052

--- In DrakeRadio@yahoogroups.com, "pf596" <pf596@...> wrote:
>
> At a hamfest today in Michigan I purchased an admitted project radio, a TR-3. After opening the radio I found someone had removed the variable capacitor designated as C-130. Any help in the value of this capacitor and info in finding a replacement would be greatly appreciated. Whoever took the capacitor was nice enough to leave the mounting screws taped in place. Thanks in advance, Bob KC9MTW
>

I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW

2053. Re: [DrakeRadio] Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-20 03:27:45 UTC
From: Garey Barrell
Topic: 2027 Message: 2053

Bob -

First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.

The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

pf596 wrote:
>
> I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
>
>
>
>

2054. Crystals for SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-21 23:26:59 UTC
From: ksharman
Topic: 2054 Message: 2054

I'm getting an SPR-4 and need a couple of additional crystals. Back in the day when I had a Heathkit HW-101, I just ordered them ground to the frequency I needed. Are there any companies still doing that? Thanks.

2055. Re: [DrakeRadio] Crystals for SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-22 00:08:12 UTC
From: Jim Gerke
Topic: 2054 Message: 2055

In the past year, I've purchased crystals from International Crystal in Oklahoma City for both Drake and Heathkit equipment. The last crystals I bought a few months ago were $20.95 each, plus a little for postage, and they have a lifetime guarantee.

Their number is 1-800-725-1426. They have all the specs, so you just need to tell 'em the RX model and crystal frequency.

-- Jim

ksharman wrote:
> I'm getting an SPR-4 and need a couple of additional crystals. Back in the day when I had a Heathkit HW-101, I just ordered them ground to the frequency I needed. Are there any companies still doing that? Thanks.
>
>
>
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> Yahoo! Groups Links
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2056. HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-22 00:34:10 UTC
From: david.rose@snet.net
Topic: 182 Message: 2056

Just got my AUX-7 board all set up for the WARC bands and went to install the board, but to my suprise it looks more complicated than I thought. Is there an easier way to do this w/o dropping the front panel and possibly damaging the bandswitch? Any advice always appreciated. Tnx.

Dave KW1V

2057. Re: [DrakeRadio] Crystals for SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-22 00:50:19 UTC
From: ksharman@hushmail.com
Topic: 2054 Message: 2057

Great! Thank you very much, I'll check them out.

On Sat, 21 Mar 2009 18:08:12 -0600 Jim Gerke
<Jim.Gerke@...> wrote:
>In the past year, I've purchased crystals from International
>Crystal in
>Oklahoma City for both Drake and Heathkit equipment. The last
>crystals I
>bought a few months ago were $20.95 each, plus a little for
>postage, and
>they have a lifetime guarantee.
>
>Their number is 1-800-725-1426. They have all the specs, so you
>just
>need to tell 'em the RX model and crystal frequency.
>
>-- Jim
>
>ksharman wrote:
>> I'm getting an SPR-4 and need a couple of additional crystals.
>Back in the day when I had a Heathkit HW-101, I just ordered them
>ground to the frequency I needed. Are there any companies still
>doing that? Thanks.
>>
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>> Yahoo! Groups Links
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Become a medical transcriptionist at home, at your own pace.
http://tagline.hushmail.com/fc/BLSrjkqfMmfmcTfC979CAi7ayuYU8d6c1MaInpetEiVT8sZNoFBFl8tmvSI
/

2058. Re: [DrakeRadio] HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-22 01:14:52 UTC
From: Jim Shorney
Topic: 182 Message: 2058

On Sun, 22 Mar 2009 00:34:10 -0000, david.rose@... wrote:

> Just got my AUX-7 board all set up for the WARC bands and went to install the board, but to my suprise it looks more complicated than I thought. Is there an easier way to do this w/o dropping the front panel and possibly damaging the bandswitch? Any advice always appreciated. Tnx.
>
>Dave KW1V

David,

Although dropping the front panel is not that difficult, that is not the correct way. To install the AUX7, you need to remove the DR7 board. The Drake installation instructions are available on various web sites around the net, and be sure to read the cautions and caveats involves with removing and reinstalling the DR7 board which have been posted fairly often here, and in the Drakelist reflector archive.

And please, give us some feedback on how you are doing. Several of us have taken the time to answer your questions and offer help, but it feels a bit like typing into a vacuum without seeing any feedback that you have even read this stuff.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2059. Re: Crystals for SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-22 23:22:39 UTC
From: toptyp19
Topic: 2054 Message: 2059

I agree with Jim. International is great. They've ground many crystals
for me; Drake, Collins, Hallicrafters, they can do it all.
Joe.

--- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@...> wrote:
>
> In the past year, I've purchased crystals from International Crystal in
> Oklahoma City for both Drake and Heathkit equipment. The last crystals I
> bought a few months ago were $20.95 each, plus a little for postage, and
> they have a lifetime guarantee.
>
> Their number is 1-800-725-1426. They have all the specs, so you just
> need to tell 'em the RX model and crystal frequency.
>
> -- Jim
>
> ksharman wrote:
> > I'm getting an SPR-4 and need a couple of additional crystals. Back in the day when I had a Heathkit HW-101, I just ordered them ground to the frequency I needed. Are there any companies still doing that? Thanks.
> >
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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2060. Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-23 01:06:24 UTC
From: pf596
Topic: 2027 Message: 2060

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bob -
>
>
> First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.
>
> The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> pf596 wrote:
> >
> > I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
> >
> >
> >
> >
>
I went through all 20 tubes and found some deviations from expected resistances. V-11 pin 7 rated at 45 ohms, actual resistance is 45,000 ohms. V-15 pin 1 rated at 1 Mohms reads 2 Mohms. V-18 pin 1 rated at 180k, actual is 360k. V-19 pin 2 rated at 4.4 megs, actual is 10 megs.
I am not leaving power supply on for more than a few seconds as S-meter pegs out, did notice that meter stays pegged for a few seconds after power supply is turned off and slowly drops as if capacitors are discharging. Also no lights for meters, tuner light or upper/lower sideband indicator. Clipped C-135 and checked, rated at 10mfd, read 12mfd. I'm an HVAC tech. Monday through Friday trying to be a radio tech. on weekends so any and all help is appreciated. I love a challenge. Thanks, Bob KC9MTW

2061. Re: [DrakeRadio] Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-23 02:24:37 UTC
From: Garey Barrell
Topic: 2027 Message: 2061

pf596 wrote:
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>> Bob -
>>
>>
>> First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.
>>
>> The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>
>> pf596 wrote:
>>
>>> I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
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> I am not leaving power supply on for more than a few seconds as S-meter pegs out, did notice that meter stays pegged for a few seconds after power supply is turned off and slowly drops as if capacitors are discharging. Also no lights for meters, tuner light or upper/lower sideband indicator. Clipped C-135 and checked, rated at 10mfd, read 12mfd. I'm an HVAC tech. Monday through Friday trying to be a radio tech. on weekends so any and all help is appreciated. I love a challenge. Thanks, Bob KC9MTW
>

>
Bob -

OK. Strange as it may seem, the only measurement you made that may be significant is the first one. Assuming you made these tests as specified, (receiver off, power supply disconnected,) V11 Pin 7 _should_ have a 100 ohm resistor going to the "RCVR CATH" line, which _should_ be grounded via a n.c. relay contact on the T/R relay. This discrepancy WOULD make your S-Meter peg. So your next task is to find R50, connected to Pin 7 of V11. It should be a 100 ohm, 1/2W resistor, and the "other end" should be at chassis ground. Pin 7 of V12 is also connected to this bus, and since it's resistance is OK, the problem is most likely with R50 or its connections.

As for the lights, there is a slide switch on the back panel of the chassis that either shorts a 68 ohm, 1W resistor or puts it in series with the panel lamps to dim them. Usually NO lights is an indication of the slide switch contacts being corroded. Try "exercising" this switch several times to see if that lights the lamps.

By the way, there are at least two versions of the TR-3, what is the s/n on yours so we have the right schematic?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2062. Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-23 15:03:50 UTC
From: pf596
Topic: 2027 Message: 2062

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
>
> pf596 wrote:
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >> Bob -
> >>
> >>
> >> First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.
> >>
> >> The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> pf596 wrote:
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> >>> I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
> >>>
> >>>
> >>>
> >>>
> >>>
> > I went through all 20 tubes and found some deviations from expected resistances. V-11 pin 7 rated at 45 ohms, actual resistance is 45,000 ohms. V-15 pin 1 rated at 1 Mohms reads 2 Mohms. V-18 pin 1 rated at 180k, actual is 360k. V-19 pin 2 rated at 4.4 megs, actual is 10 megs.
> > I am not leaving power supply on for more than a few seconds as S-meter pegs out, did notice that meter stays pegged for a few seconds after power supply is turned off and slowly drops as if capacitors are discharging. Also no lights for meters, tuner light or

upper/lower sideband indicator. Clipped C-135 and checked, rated at 10mfd, read 12mfd. I'm an HVAC tech. Monday through Friday trying to be a radio tech. on weekends so any and all help is appreciated. I love a challenge. Thanks, Bob KC9MTW
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> >
> Bob -
>
> OK. Strange as it may seem, the only measurement you made that may be significant is the first one. Assuming you made these tests as specified, (receiver off, power supply disconnected,) V11 Pin 7 _should_ have a 100 ohm resistor going to the "RCVR CATH" line, which _should_ be grounded via a n.c. relay contact on the T/R relay. This discrepancy WOULD make your S-Meter peg. So your next task is to find R50, connected to Pin 7 of V11. It should be a 100 ohm, 1/2W resistor, and the "other end" should be at chassis ground. Pin 7 of V12 is also connected to this bus, and since it's resistance is OK, the problem is most likely with R50 or its connections.
>
> As for the lights, there is a slide switch on the back panel of the chassis that either shorts a 68 ohm, 1W resistor or puts it in series with the panel lamps to dim them. Usually NO lights is an indication of the slide switch contacts being corroded. Try "exercising" this switch several times to see if that lights the lamps.
>
> By the way, there are at least two versions of the TR-3, what is the s/n on yours so we have the right schematic?
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

The serial number is 787.

2063. Re: [DrakeRadio] Re: Crystals for SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-25 14:41:03 UTC
From: ksharman@hushmail.com
Topic: 2054 Message: 2063

Thanks to the group for this information. I emailed them for a
quote, and got a response immediately. One phone call and the
crystals are on order, the sales rep was VERY helpful, and knew the
Drake product line. Highly recommended.

On Sun, 22 Mar 2009 17:22:39 -0600 toptyp19
<toptyp19@...> wrote:
>I agree with Jim. International is great. They've ground many
>crystals
>for me; Drake, Collins, Hallicrafters, they can do it all.
>Joe.
>
>
>
>
>
>--- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@...>
>wrote:
>>
>> In the past year, I've purchased crystals from International
>Crystal in
>> Oklahoma City for both Drake and Heathkit equipment. The last
>crystals I
>> bought a few months ago were $20.95 each, plus a little for
>postage, and
>> they have a lifetime guarantee.
>>
>> Their number is 1-800-725-1426. They have all the specs, so you
>just
>> need to tell 'em the RX model and crystal frequency.
>>
>> -- Jim
>>
>> ksharman wrote:
>> > I'm getting an SPR-4 and need a couple of additional crystals.
> Back in the day when I had a Heathkit HW-101, I just ordered them
>ground to the frequency I needed. Are there any companies still
>doing that? Thanks.
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>> > Yahoo! Groups Links
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2064. Drake tr 7 knobs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-26 18:06:55 UTC
From: wd8ipr
Topic: 2064 Message: 2064

looking for the small knobs for the tr 7 drake. kullom@...

2065. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-27 16:57:27 UTC
From: captcurt2000
Topic: 2044 Message: 2065

Perhaps someone has replied off-line on this..but here is my take:

If voltages appear at the inlet to a T4 for instance, it is going to be ON. The only thing that is switched inside, is the contacts for the 110VAC line in to the PS. Whether or not that switch is on or off, if you put the other voltages on the inlet pins with a Y adapter, the unit is going to be in the ON condition.

If you want to use a Y adapter--easiest to just unplug the one you're not using--otherwise, each of those lines needs to be switched.

Cant speak for the TR series but I assume it is similar to the T4's

Curt
KU8L

2066. F.S. Replacement Panel Meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-28 19:37:24 UTC
From: Jim Gerke
Topic: 1766 Message: 2066

See item # 320354531299 at you know where. Just listed.

-- Jim

2067. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-30 17:21:16 UTC
From: john baker
Topic: 2044 Message: 2067

Thanks Curt
I did get a reply back channel as well. Thank you. That was kind of what I figured. My concern now is that, if I build a switchbox, will I cause any problems by just switching the power conductors. If all the other lines in the cables are split and just the power conductors were switched would there be any destructive feed to the rigs not switched on? This would also include the feedlines for the MS4 speaker. From what I can tell at this point, it should work safely but I am not convinced yet.

I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch. That won't happen too many times before I break something. =) I picked up a C4 control consol and am playing with ideas to make this work for this purpose.

Any ideas would be most welcome.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Perhaps someone has replied off-line on this..but here is my take:
>
> If voltages appear at the inlet to a T4 for instance, it is going to be ON. The only thing that is switched inside, is the contacts for the 110VAC line in to the PS. Whether or not that switch is on or off, if you put the other voltages on the inlet pins with a Y adapter, the unit is going to be in the ON condition.
>
> If you want to use a Y adapter--easiest to just unplug the one you're not using--otherwise, each of those lines needs to be switched.
>
> Cant speak for the TR series but I assume it is similar to the T4's
>
> Curt
> KU8L
>

2068. Re: [DrakeRadio] Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-30 19:48:12 UTC
From: Garey Barrell
Topic: 2044 Message: 2068

JB -

There is no reason you can't switch a single power supply among
different transmitters.

Some things to watch out for......

1. Be sure the wire/cable you use is capable of safely withstanding the
700V DC on the HV lead.

2. Be sure the wire/cable is capable of handling the filament current
without significant voltage drop.

3. Ensure that the switch is capable of handling the current and
voltages above.

4. Switch units _ONLY_ with the Power Supply turned OFF.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

john baker wrote:
> Thanks Curt
> I did get a reply back channel as well. Thank you. That was kind of what I figured. My concern now is that, if I build a switchbox, will I cause any problems by just switching the power conductors. If all the other lines in the cables are split and just the power conductors were switched would there be any destructive feed to the rigs not switched on? This would also include the feedlines for the MS4 speaker. From what I can tell at this point, it should work safely but I am not convinced yet.
>
> I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch. That won't happen too many times before I break something. =) I picked up a C4 control consol and am playing with ideas to make this work for this purpose.
>
> Any ideas would be most welcome.
>
> God bless
> 73
> jb
> kg6biw
>

>
>
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
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>> Perhaps someone has replied off-line on this..but here is my take:
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>> If voltages appear at the inlet to a T4 for instance, it is going to be ON. The only thing that is switched inside, is the contacts for the 110VAC line in to the PS. Whether or not that switch is on or off, if you put the other voltages on the inlet pins with a Y adapter, the unit is going to be in the ON condition.
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>>
>> Cant speak for the TR series but I assume it is similar to the T4's
>>
>> Curt
>> KU8L
>>
>>
>

2069. Re: [DrakeRadio] Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-30 20:57:55 UTC
From: Jim Shorney
Topic: 2044 Message: 2069

On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:

>I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch.

If it were at all practical, I'm sure it would have been done. One point to note, you would probably need to readjust the bias setting each time you want to use a different rig. No two are exactly the same, that's why a pot is provided.

Much easier just to stack AC4s in the corner.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2070. Re: [DrakeRadio] Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-30 21:44:17 UTC
From: Garey Barrell
Topic: 2044 Message: 2070

Jim Shorney wrote:
> On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:
>
>
>> I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch.
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> each time you want to use a different rig. No two are exactly the same,
> that's why a pot is provided.
>
> Much easier just to stack AC4s in the corner.
>

Good point Jim...

Says the AC-4 would have to be accessible each time you switched, at least. Of course if you're going to all the trouble to set up all the switching, it wouldn't be all that much more to crank the AC-4 up all the way and have an individual pot for each transmitter inside the switchbox..

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2071. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-31 17:49:30 UTC
From: john baker
Topic: 2044 Message: 2071

Thanks Jim, Garey
That is right about where I would have taken it in the shorts. Still might do this but will be much better prepared now. I learn so much by never leaving well enough alone and always having to improve or taylor to my use. Without being able to glean from others more knowlegable it can be a somewhat expensive way to learn. =) Even if I don't rig this up I learned something new about my equipment.

Thanks again.
God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
>
> Jim Shorney wrote:
> > On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:
> >
> >
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>
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>
> 73, Garey - K4OAH
> Glen Allen, VA
>

> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

2072. Re: [DrakeRadio] Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-31 18:12:31 UTC
From: g4jss@tiscali.co.uk
Topic: 2044 Message: 2072

Now you are talking my language. I reckon that over the years I have wrecked more than I have repaired but I think I'm just about breaking even now!!

Vic - G4JSS

----Original Message----
From: xjjb4x4@...
Date: 31/03/2009 18:49
To: <DrakeRadio@yahoogroups.com>
Subj: [DrakeRadio] Re: Power cables

Thanks Jim, Garey
That is right about where I would have taken it in the shorts. Still might do this but will be much better prepared now. I learn so much by never leaving well enough alone and always having to improve or taylor to my use. Without being able to glean from others more knowlegable it can be a somewhat expensive way to learn. =) Even if I don't rig this up I learned something new about my equipment.

Thanks again.
God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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>
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> Jim Shorney wrote:
> > On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:
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> >> I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch.
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

Get £25 off a case of wine - http://www.tiscali.co.uk/wine

[Non-text portions of this message have been removed]

2073. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-03-31 23:54:24 UTC
From: captcurt2000
Topic: 2044 Message: 2073

Jim makes a great point on the bias adjustment..pretty easy to relocate the adjustment of bias into the switchbox tho..

Also..I gathered from your first response that you want to leave all the other interconnects attached. I dont think there is anything destructive about doing mthis but pretty sure at least the injection lines will not stand being paralleled. My recent experiences with the addition of a y harness to the injection line of a r4a/t4x inorder to run a digital frequency display leads me to beleive that that injection system is REAL touchy and reducing the levels in any way creates issues w/ transceive operation.

FWIW

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:
>
> >I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I am switching from and to each time I want to switch.
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> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/

> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2074. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-03 00:14:14 UTC
From: john baker
Topic: 2044 Message: 2074

Thanks Curt,

Uh...injection lines? Don't understand. Which lines would that be? The only ones I can see to interfer with are the speaker conductors. If you are talking about the cable between the twins, I don't see a conflict since the receiver seems so isolated from the AC4.

jb

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
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>
> Also..I gathered from your first response that you want to leave all the other interconnects attached. I dont think there is anything destructive about doing mthis but pretty sure at least the injection lines will not stand being paralleled. My recent experiences with the addition of a y harness to the injection line of a r4a/t4x inorder to run a digital frequency display leads me to beleive that that injection system is REAL touchy and reducing the levels in any way creates issues w/ transceive operation.
>
> FWIW
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> Curt
> KU8L
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>
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> > 73
> >

> > -Jim
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> > http://www.nebraskaghosts.org
> >
>

2075. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-04 02:40:00 UTC
From: captcurt2000
Topic: 2044 Message: 2075

Yes I was refereing to the inj for the twins..not specifically related to switching the AC4, but trying to just leave more than one radio connected and switch the right one on. The injection lines probably would not work if one more box was connected to the chain..on or off--seems to be the capacitance of the cable that is the issue.

Cheers,

Curt

--- In DrakeRadio@yahoogroups.com, "john baker" <xjjb4x4@...> wrote:
>
> Thanks Curt,
>
> Uh...injection lines? Don't understand. Which lines would that be? The only ones I can see to interfer with are the speaker conductors. If you are talking about the cable between the twins, I don't see a conflict since the receiver seems so isolated from the AC4.
>
> jb
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> >
> > Jim makes a great point on the bias adjustment..pretty easy to relocate the adjustment of bias into the switchbox tho..
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> >
> > FWIW
> >
> > Curt
> > KU8L
> >
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@> wrote:
> > >
> > > On Mon, 30 Mar 2009 17:21:16 -0000, john baker wrote:
> > >
> > > >I'm suprised that, with all the experience on here, someone hasn't tried something like this yet. I have four different rigs (set of B twins, TR4, T4xc and a TR6) and not much shelf space. It would be very user friendly to not have to pull out each of the rigs I

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> > >
> > > Much easier just to stack AC4s in the corner.
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> > > Ham Radio NU0C
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> > > http://www.nebraskaghosts.org
> > >
> >
>

2076. Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-04 17:58:12 UTC
From: pf596
Topic: 2027 Message: 2076

--- In DrakeRadio@yahoogroups.com, "pf596" <pf596@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> >
> >
> > pf596 wrote:
> > > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> > >
> > >> Bob -
> > >>
> > >>
> > >> First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.
> > >>
> > >> The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.
> > >>
> > >> 73, Garey - K4OAH
> > >> Glen Allen, VA
> > >>
> > >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > >> <www.k4oah.com>
> > >>
> > >>
> > >>
> > >> pf596 wrote:
> > >>
> > >>> I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > > > I went through all 20 tubes and found some deviations from expected resistances. V-11 pin 7 rated at 45 ohms, actual resistance is 45,000 ohms. V-15 pin 1 rated at 1 Mohms reads 2 Mohms. V-18 pin 1 rated at 180k, actual is 360k. V-19 pin 2 rated at 4.4 megs, actual is 10 megs.
> > > > I am not leaving power supply on for more than a few seconds as S-meter pegs out, did

notice that meter stays pegged for a few seconds after power supply is turned off and slowly drops as if capacitors are discharging. Also no lights for meters, tuner light or upper/lower sideband indicator. Clipped C-135 and checked, rated at 10mfd, read 12mfd. I'm an HVAC tech. Monday through Friday trying to be a radio tech. on weekends so any and all help is appreciated. I love a challenge. Thanks, Bob KC9MTW
> > >
> > >
> > Bob -
> >
> > OK. Strange as it may seem, the only measurement you made that may be significant is the first one. Assuming you made these tests as specified, (receiver off, power supply disconnected,) V11 Pin 7 _should_ have a 100 ohm resistor going to the "RCVR CATH" line, which _should_ be grounded via a n.c. relay contact on the T/R relay. This discrepancy WOULD make your S-Meter peg. So your next task is to find R50, connected to Pin 7 of V11. It should be a 100 ohm, 1/2W resistor, and the "other end" should be at chassis ground. Pin 7 of V12 is also connected to this bus, and since it's resistance is OK, the problem is most likely with R50 or its connections.
> >
> > As for the lights, there is a slide switch on the back panel of the chassis that either shorts a 68 ohm, 1W resistor or puts it in series with the panel lamps to dim them. Usually NO lights is an indication of the slide switch contacts being corroded. Try "exercising" this switch several times to see if that lights the lamps.
> >
> > By the way, there are at least two versions of the TR-3, what is the s/n on yours so we have the right schematic?
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
>
>
> The serial number is 787.
>
The radio is working now. I plugged the power supply into a variable isolating transformer and monitored the amp draw, stayed fairly consistent at 3/4 of an amp. The S-meter stayed pegged for abot 1 1/2 minutes and gradually started dropping and noise from the speaker increased as Smeter dropped. I adjusted C-130 until sound in both lsb and usb were app. the same pitch/tone. While going through I found many capacitors which physically appeared in terrible shape, I am thinking of recapping the entire radio as something to do to keep me out of trouble, or get into more trouble, depending on how you look at it. Most of these caps have very short lead lengths and some are in very difficult locations to access. Would having more lead length exposed with new caps be detrimental to the radios performance? It seems having more lead length would make recapping much easier. The schematic shows the values in micro/pico farads but no mention as to voltage rating, any help in determining the correct caps would be greatly appreciated. Thanks, Bob KC9MTW

2077. Re: [DrakeRadio] Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-04 18:30:50 UTC
From: Garey Barrell
Topic: 2027 Message: 2077

pf596 wrote:
> --- In DrakeRadio@yahoogroups.com, "pf596" <pf596@...> wrote:
>
>> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
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>>> Bob -
>>>
>>> OK. Strange as it may seem, the only measurement you made that may be significant is the first one. Assuming you made these tests as specified, (receiver off, power supply disconnected,) V11 Pin 7 _should_ have a 100 ohm resistor going to the "RCVR CATH" line, which _should_ be grounded via a n.c. relay contact on the T/R relay. This discrepancy WOULD make your S-Meter peg. So your next task is to find R50, connected to Pin 7 of V11. It should be a 100 ohm, 1/2W resistor, and the "other end" should be at chassis ground. Pin 7 of V12 is also connected to this bus, and since it's resistance is OK, the problem is most likely with R50 or its connections.
>>>
>>> As for the lights, there is a slide switch on the back panel of the chassis that either shorts a 68 ohm, 1W resistor or puts it in series with the panel lamps to dim them. Usually NO lights is an indication of the slide switch contacts being corroded. Try "exercising" this switch several times to see if that lights the lamps.
>>>
>>> By the way, there are at least two versions of the TR-3, what is the s/n on yours so we have the right schematic?
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>
>>>
>> The serial number is 787.
>>
>>
> The radio is working now. I plugged the power supply into a variable isolating transformer and monitored the amp draw, stayed fairly consistent at 3/4 of an amp. The S-meter stayed pegged for abot 1 1/2 minutes and gradually started dropping and noise from the speaker increased as Smeter dropped. I adjusted C-130 until sound in both lsb and usb were app. the same pitch/tone. While going through I found many capacitors which physically appeared in terrible shape, I am thinking of recapping the entire radio as something to do to keep me out of trouble, or get into more trouble, depending on how you look at it. Most of these caps have very short lead lengths and some are in very difficult locations to access. Would having more lead length exposed with new caps be detrimental to the radios performance? It seems having more lead length would make recapping much easier. The

schematic shows the values in micro/pico farads but no mention as to voltage rating, any help in determining the correct caps would be greatly appreciated. Thanks, Bob KC9MTW
>
>
>
Bob -

So you have the lights working? As for long "warmup", check R106, probably gone up in value. Replacing caps, especially those in tight quarters and/or with short lead lengths, is quite likely to get you into more trouble rather than out of it!. There is a reason the leads are short! Ceramic caps are very reliable, although failure is not impossible. Many are NP0 or temperature compensating types, again more trouble than improvement by shotgun replacement. Drake use very high quality film (epoxy) caps that rarely fail unless damaged with a hot soldering iron or other mechanical abuse. The electrolytics are certainly well beyond their expected lifetime, but many are still working just fine. Absent an ESR meter, it wouldn't hurt to replace those. Tom, at "Hayseedhamfest.com" has the can-type cap for the TR-3 and the tubular bypass on the AF Output stage is easy. Best approach for the AC-3/4 is the AC-4R from The Heathkit Shop.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2078. Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-04 19:40:22 UTC
From: pf596
Topic: 2027 Message: 2078

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
>
> pf596 wrote:
> > --- In DrakeRadio@yahoogroups.com, "pf596" <pf596@> wrote:
> >
> >> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >>
> >>>
> >>> pf596 wrote:
> >>>
> >>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >>>>
> >>>>
> >>>>> Bob -
> >>>>>
> >>>>>
> >>>>> First, I would recommend disconnecting the RV-4. No point in further confusing the issue! You WILL need to jumper Pins 2 and 8 of the RV connector while the RV-4 is disconnected.
> >>>>>
> >>>>> The S-Meter is a bridge network that compares the current drawn by V17, the AF Output tube, with the current drawn by V11 and V15. I'd start by checking the resistance values around V17, particularly Pins 2 and 5 to ground, C135 for possible short with voltage applied, C134, R53 and R76.
> >>>>>
> >>>>> 73, Garey - K4OAH
> >>>>> Glen Allen, VA
> >>>>>
> >>>>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >>>>> <www.k4oah.com>
> >>>>>
> >>>>>
> >>>>>
> >>>>> pf596 wrote:
> >>>>>
> >>>>>
> >>>>>> I replaced the 8-50pf capacitor and powerd up with my TR 4 power supply, the S-meter pegged out with no sound from the speaker in the RV-4. I began checking the resistance values to ground from the tube sockets as per the manual, so far nothing unusual. Any help or suggestions would be greatly appreciated. Thanks, Bob KC9MTW
> >>>>>>
> >>>>>>
> >>>>>>

> >>>>>>
> >>>>>>
> >>>>>>
> >>>> I went through all 20 tubes and found some deviations from expected resistances. V-11 pin 7 rated at 45 ohms, actual resistance is 45,000 ohms. V-15 pin 1 rated at 1 Mohms reads 2 Mohms. V-18 pin 1 rated at 180k, actual is 360k. V-19 pin 2 rated at 4.4 megs, actual is 10 megs.
> >>>> I am not leaving power supply on for more than a few seconds as S-meter pegs out, did notice that meter stays pegged for a few seconds after power supply is turned off and slowly drops as if capacitors are discharging. Also no lights for meters, tuner light or upper/lower sideband indicator. Clipped C-135 and checked, rated at 10mfd, read 12mfd. I'm an HVAC tech. Monday through Friday trying to be a radio tech. on weekends so any and all help is appreciated. I love a challenge. Thanks, Bob KC9MTW
> >>>>
> >>>>
> >>>>
> >>> Bob -
> >>>
> >>> OK. Strange as it may seem, the only measurement you made that may be significant is the first one. Assuming you made these tests as specified, (receiver off, power supply disconnected,) V11 Pin 7 _should_ have a 100 ohm resistor going to the "RCVR CATH" line, which _should_ be grounded via a n.c. relay contact on the T/R relay. This discrepancy WOULD make your S-Meter peg. So your next task is to find R50, connected to Pin 7 of V11. It should be a 100 ohm, 1/2W resistor, and the "other end" should be at chassis ground. Pin 7 of V12 is also connected to this bus, and since it's resistance is OK, the problem is most likely with R50 or its connections.
> >>>
> >>> As for the lights, there is a slide switch on the back panel of the chassis that either shorts a 68 ohm, 1W resistor or puts it in series with the panel lamps to dim them. Usually NO lights is an indication of the slide switch contacts being corroded. Try "exercising" this switch several times to see if that lights the lamps.
> >>>
> >>> By the way, there are at least two versions of the TR-3, what is the s/n on yours so we have the right schematic?
> >>>
> >>> 73, Garey - K4OAH
> >>> Glen Allen, VA
> >>>
> >>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >>> <www.k4oah.com>
> >>>
> >>>
> >> The serial number is 787.
> >>
> >>
> > The radio is working now. I plugged the power supply into a variable isolating transformer and monitored the amp draw, stayed fairly consistent at 3/4 of an amp. The S-meter stayed pegged for abot 1 1/2 minutes and gradually started dropping and noise from the speaker increased as Smeter dropped. I adjusted C-130 until sound in both lsb and usb were app. the same pitch/tone. While going through I found many capacitors which physically

appeared in terrible shape, I am thinking of recapping the entire radio as something to do to keep me out of trouble, or get into more trouble, depending on how you look at it. Most of these caps have very short lead lengths and some are in very difficult locations to access. Would having more lead length exposed with new caps be detrimental to the radios performance? It seems having more lead length would make recapping much easier. The schematic shows the values in micro/pico farads but no mention as to voltage rating, any help in determining the correct caps would be greatly appreciated. Thanks, Bob KC9MTW
> >
> >
> >
> Bob -
>
> So you have the lights working? As for long "warmup", check R106,
> probably gone up in value. Replacing caps, especially those in tight
> quarters and/or with short lead lengths, is quite likely to get you into
> more trouble rather than out of it!. There is a reason the leads are
> short! Ceramic caps are very reliable, although failure is not
> impossible. Many are NP0 or temperature compensating types, again more
> trouble than improvement by shotgun replacement. Drake use very high
> quality film (epoxy) caps that rarely fail unless damaged with a hot
> soldering iron or other mechanical abuse. The electrolytics are
> certainly well beyond their expected lifetime, but many are still
> working just fine. Absent an ESR meter, it wouldn't hurt to replace
> those. Tom, at "Hayseedhamfest.com" has the can-type cap for the TR-3
> and the tubular bypass on the AF Output stage is easy. Best approach
> for the AC-3/4 is the AC-4R from The Heathkit Shop.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
I have an Eico 950A, would using that and checking for leakage give me, for all practical purposes, the same info as an ESR meter? Is an ESR meter used solely on electrolytic caps or on any cap. over a certain value? Thanks again, Bob KC9MTW

2079. Re: [DrakeRadio] Re: C-130 Gone Missing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-04 20:19:32 UTC
From: Garey Barrell
Topic: 2027 Message: 2079

pf596 wrote:
>>
> I have an Eico 950A, would using that and checking for leakage give me, for all practical purposes, the same info as an ESR meter? Is an ESR meter used solely on electrolytic caps or on any cap. over a certain value? Thanks again, Bob KC9MTW
>
>
>
Bob -

The 950A only measures capacitance and _DC_ leakage current, which is the usual failure mechanism for a paper or film insulated capacitor. An ESR meter measures _AC_ resistance through an electrolytic capacitor, which is the effective resistance seen in series with an electrolytic capacitor which is a function of the condition of the "etch" formed on the aluminum foil and the electrolyte solution responsible for the high capacity vs size typical of an electrolytic. It tests by applying an AC pulse at 100 khz or so and measuring the apparent _AC_ "resistance" of the tested cap.

There are several commercial versions and a few good homebrew versions available. A good source of information and specifications of commercial units is at

<http://www.anatekcorp.com/testequipment/esrcompar.htm>

A couple of homebrew versions are at

<http://ludens.cl/Electron/esr/esr.html>

<http://members.shaw.ca/swstuff/esrmeter.html>

Or if you already have a scope and 100 kHz pulse generator, just put a low value (10 ohm) resistor in series with the pulse, apply to the cap and measure the drop across the resistor. Keep the signal across the cap to less than a couple hundred millivolts, and you can do the test without disconnecting anything.

An invaluable piece of equipment if you do much troubleshooting of equipment with electrolytic capacitors in it. (Just about everything electronic!)

73, Garey - K4OAH
Glen Allen, VA

2080. TR-7 CW Drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-09 00:39:40 UTC
From: Al Scanandoah
Topic: 2080 Message: 2080

Hi

When I key down in CW, my TX frequency begins to slowly drift upward. I've got a spare 2nd IF/Audio board - swapping that in didn't make any difference. The 10v supply seems stable.

This happens even when I'm running at about 10 watts, so I don't think it's a thermal issue.

Here's the kicker - AM an SSB appear to be fine.

Any ideas?

73 - Al, K2ZN

2081. New Member Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-10 16:02:29 UTC
From: Forrest Plumstead
Topic: 2081 Message: 2081

Hi!
My name is Forrest licensed WB5HQO 36 years ago. I got my Amateur Extra last Sept. My QTH is San Antonio, TX. I just moved back here from Chesapeake, VA. While there I enjoyed the wonderful company of the Chesapeake Amateur Radio Service. Before leaving I was given a Drake TR-4. The receiver works fine. There is no SSB modulation getting to the finals. Trouble shooting was done up through the filters which were ok. CW works but tune up is quirky. Xmitter gain jumps from 0 to high gain very quickly, and the load cap goes all the way over to the right to get full power. X-AM the receiver goes completely silent. I just started work again so I will be a while before I can buy any parts. Tomorrow I am going to the Medina County club. I hope to find someone there who has a good troubleshooting bench. I sure would like to see this old beauty up and running again.

--
Forrest Plumstead fplum1@...
PLUMSTEAD-L List master
http://lists.rootsweb.com/index/surname/p/plumstead.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Military Kool Lynx: http://geocities.com/fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
Photos: http://myspace.com/fplum7755

[Non-text portions of this message have been removed]

2082. Drake items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-11 19:00:04 UTC
From: Ken Simpson, W8EK
Topic: 1764 Message: 2082

Drake items for sale:

Drake hand microphone
This is like the hand mic that came with the Drake TR-72, TR-22 C, TR-33 C, and others. It has the standard 4 pin plug wired for Drake/Kenwood, and is a 500 ohm mic. Of course it could be used on an HF rig as well as a 2 m rig. It looks great and works fine. $30

Drake 1525 EM Touch Tone DTMF Microphone
This is the mic that was used to add a touch tone pad to many rigs in the 70s and 80s. It is a normal hand mic from the front, but has a touchtone pad on the back. Four pin mic plug. This particular unit has been used, but is in good shape and includes paper work. $38

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has cutouts in the back for antenna, power, etc. It includes the shoulder strap, and is in good shape. $12

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

2083. New commer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-11 19:25:46 UTC
From: Thomas Zyniecki
Topic: 2083 Message: 2083

Hi all I am a new commer to this group. and I already have a question. I was given a TR-4 that I would like to try out, it did not come with a power cable. Or a power supply that matches. I did receive a DC-DC converter from LS Linear Systems, Inc. They don't look like they work together. opened up looks like a high voltage dc supply. Any thoughts or Ideas.

Tom kd8bjh [:)]

[Non-text portions of this message have been removed]

2084. Drake W4 Wattmeter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-12 23:19:08 UTC
From: k8wbl
Topic: 2084 Message: 2084

Selling off one of my Drake W4 wattmeters, works fine, no issues. $60..

K8WBL@...

Tim

2085. Re: New commer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-13 11:23:31 UTC
From: tjb813
Topic: 2083 Message: 2085

For starters, I would look in that on-line auction house e-something and find an AC-3 or AC-4. The voltages in the TR4 are particular. Be sure to read up on the bias setting and make sure its correct. If the radio has not been used for awhile, use a variac to bring it up slow.
There have been lots of posts about that procedure here, just look that up in the archives. Good luck. The TR4 is my favorite.

--- In DrakeRadio@yahoogroups.com, "Thomas Zyniecki" <kd8bjh@...> wrote:
>
>
> Hi all I am a new commer to this group. and I already have a question.
> I was given a TR-4 that I would like to try out, it did not come with a
> power cable. Or a power supply that matches. I did receive a DC-DC
> converter from LS Linear Systems, Inc. They don't look like they work
> together. opened up looks like a high voltage dc supply. Any thoughts
> or Ideas.
>
> Tom kd8bjh [:)]
>
>
>
> [Non-text portions of this message have been removed]
>

2086. Re: Power cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-14 18:08:20 UTC
From: john baker
Topic: 2044 Message: 2086

Thanks Curt, ...sorry it took so long to do so...

That is something I will sure keep in mind. I don't intend to have more than one rig on at a time...if that is what you mean. If not, then that is one more thing that won't be a suprise when it happens.

ko-mah-wah-yo
God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Yes I was refereing to the inj for the twins..not specifically related to switching the AC4, but trying to just leave more than one radio connected and switch the right one on. The injection lines probably would not work if one more box was connected to the chain..on or off--seems to be the capacitance of the cable that is the issue.
>
> Cheers,
>
> Curt
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, "john baker" <xjjb4x4@> wrote:
> >
> > Thanks Curt,
> >
> > Uh...injection lines? Don't understand. Which lines would that be? The only ones I can see to interfer with are the speaker conductors. If you are talking about the cable between the twins, I don't see a conflict since the receiver seems so isolated from the AC4.
> >
> > jb
> >

2087. Re: New commer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-14 19:02:59 UTC
From: Thomas Zyniecki
Topic: 2083 Message: 2087

Thank You I have done that. I bought a ac-4 and it is supposed to be
on the way.

Tom

--- In DrakeRadio@yahoogroups.com, "tjb813" <tjb813@...> wrote:
>
> For starters, I would look in that on-line auction house e-something
and find an AC-3 or AC-4. The voltages in the TR4 are particular. Be
sure to read up on the bias setting and make sure its correct. If the
radio has not been used for awhile, use a variac to bring it up slow.
> There have been lots of posts about that procedure here, just look
that up in the archives. Good luck. The TR4 is my favorite.
>
>
> --- In DrakeRadio@yahoogroups.com, "Thomas Zyniecki" kd8bjh@ wrote:
> >
> >
> > Hi all I am a new commer to this group. and I already have a
question.
> > I was given a TR-4 that I would like to try out, it did not come
with a
> > power cable. Or a power supply that matches. I did receive a DC-DC
> > converter from LS Linear Systems, Inc. They don't look like they
work
> > together. opened up looks like a high voltage dc supply. Any
thoughts
> > or Ideas.
> >
> > Tom kd8bjh [:)]
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2088. TR-3 mike plug

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-16 20:04:52 UTC
From: Fred
Topic: 2088 Message: 2088

anyone know of a source for these or maybe have an extra one .
tnx.
andrew kd5pnt

2089. WTB: R4/R4A Tuning Knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-16 21:56:40 UTC
From: Fernando Quinones
Topic: 2089 Message: 2089

I have a R4 with a R4B tuning knob.

Looking for the one with the flat skirt.

Will trade this one plus cash or buy outright.

tnx.

Fernando N2FQ

2090. Re: [DrakeRadio] TR-3 mike plug

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-16 22:29:06 UTC
From: Richard Knoppow
Topic: 2088 Message: 2090

----- Original Message -----
From: "Fred" <radiomanl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 16, 2009 1:04 PM
Subject: [DrakeRadio] TR-3 mike plug

> anyone know of a source for these or maybe have an extra
> one .
> tnx.
> andrew kd5pnt
>
If this is the same small TRS plug used on the T-4B and
Collins stuff they are available on the web, still made by
Switchcraft.
See: http://www.boatanchor.com/reference/connector.html
for sources.

My T-4B has a standard TRS "stereo" jack on it. It may
have been put on by some owner but sure looks like a factory
job.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2091. Re: TR-7 CW Drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-17 11:49:59 UTC
From: Floyd Sense
Topic: 2080 Message: 2091

--- In DrakeRadio@yahoogroups.com, "Al Scanandoah" <k2zn@...> wrote:
>
> Hi
>
> When I key down in CW, my TX frequency begins to slowly drift upward. I've got a spare 2nd IF/Audio board - swapping that in didn't make any difference. The 10v supply seems stable.
>
> This happens even when I'm running at about 10 watts, so I don't think it's a thermal issue.
>
> Here's the kicker - AM an SSB appear to be fine.
>
> Any ideas?
>
> 73 - Al, K2ZN
>

You didn't say how long the TR7 had been on when you ran into this. I'd put my money on PTO drift. If you have a frequency counter, try looking at the PTO frequency while you observe the drift. Perhaps you made the SSB observation after the rig had warmed up?

73, K8AC

2092. Re: TR-7 CW Drift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-17 16:29:55 UTC
From: Al Scanandoah
Topic: 2080 Message: 2092

Thanks, Floyd

The radio had been on for at least 24 hours, so I doubt that it's a PTO issue.

I believe I have it narrowed down to the 13.695 MHz oscillator on the PBT board. It's probably either the rock and/or the varactor. I'll have to probe the varactor to see if there is any DC drift when keyed in CW.

73, Al

--- In DrakeRadio@yahoogroups.com, "Floyd Sense" <floyd@...> wrote:
>

>
> You didn't say how long the TR7 had been on when you ran into this. I'd put my money on PTO drift. If you have a frequency counter, try looking at the PTO frequency while you observe the drift. Perhaps you made the SSB observation after the rig had warmed up?
>
> 73, K8AC
>

2093. FS: Complete Drake TR4CWrit Station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-18 15:21:03 UTC
From: jch39_99
Topic: 2093 Message: 2093

FS: Complete Drake TR4CWrit Station
I made a mistake. Last year I got a Drake TR7 and really liked that rig. So this year I thought I would try Drake's best tube transceiver, the TR4CWrit. Got great signal reports on 40 mtr SSB and CW, but it just is not my cup of tea, prefer the TR7. It is too nice of a rig to just sit and gather dust, so I am selling the TR4CWrit (sn#45368) a 9 out of 10 with manual. Also included is the MS4 speaker, the AC4 power supply, a Shure CB41 desk mike, K4OH's Service information for the TR4C series CD, and a nearly full set of replacement tubes (most NOS, the rest good used ones). Hook up an antenna and you are on the air with a great classic tube station. Not DOA but sold as is. $999 plus $100 shipping to lower 48 states. Postal money order or PayPal + 3%. Save the shipping by picking up within 50 miles of Hendersonville, NC. Pictures available. Tnx for looking. jcharley at bellsouth dot net.
73/Crit/K4BXN

2094. New Request To Join Our Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-19 16:59:35 UTC
From: wa6rkn
Topic: 2094 Message: 2094

RaveTrade has requested access to our group, but nothing in his application mentioned radios..of any kind.

I sent him a request for more information about himself so I can make a decision as to whether or not to grant admission.

I hate to think this of anyone, but it appears it might be an individual just looking for a spot to spam...hence my caution.

Joe Wolfe
WA6RKN

2095. DRAKE R8B for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-19 17:49:27 UTC
From: enriqueeeeee2001
Topic: 2095 Message: 2095

Drake R8B in excellent condition. Used very little in a non-smoking environment. Does not have VHF or extras. Works flawlessly.
Asking 1050 Euros.
I do not discard swaps for top HF receivers, adjusting difference of price.
Thanks.

2096. Re: New Request To Join Our Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-19 17:58:40 UTC
From: Tim Stotenburg
Topic: 2094 Message: 2096

I do believe it is intended to promote her site which has nothing to do with Ham radio. (http://www.ravetrade.com/) (http://www.myspace.com/298888187)

Tim
Ki6NQT

2097. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-19 18:36:16 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2097

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2098. Re: [DrakeRadio] Re: New Request To Join Our Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-19 19:07:28 UTC
From: Don
Topic: 2094 Message: 2098

I had already e-mailed Joe, WA6RKN, about it.
I did ok membership, but they are on moderated status,
with no uploads allowed. So even if it should turn out to
be spam, it shouldn't reach the group.

I would like to take this moment to thank both Joe, WA6RKN,
and Garey, K4OAH, for helping so much with the maintenance
and running of our group. They both have been a huge help !!

Don
AD7LL

----- Original Message -----
From: Tim Stotenburg
To: DrakeRadio@yahoogroups.com
Sent: Sunday, April 19, 2009 11:58 AM
Subject: [DrakeRadio] Re: New Request To Join Our Group

I do believe it is intended to promote her site which has nothing to do with Ham radio.
(http://www.ravetrade.com/) (http://www.myspace.com/298888187)

Tim
Ki6NQT

[Non-text portions of this message have been removed]

2099. Re:File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-20 15:19:45 UTC
From: wx4us
Topic: 206 Message: 2099

I apologize, I am one of the newer members in the group and I have not introduced myself. The name is Fred and the call is WX4US. I hold an Advanced license and have no intention of upgrading to Extra. The dividing line between Advanced and Extra was always 20 wpm code and even with the help of Olla Slone, WD8MOU silent key, I could not quite get there. Even with the new rules governing the Extra class I respect the 20 wpm dividing line. I was first licensed in 1986. I have lived the last 10 years in Pensacola and prior to that in Northeast Ohio under the call signs of N8IAO and KB8APH.

My Drake equipment is as follows: a B line, a C line, a TR-6, W-4, MN-2000 and 2 MS-4s with AC-4s. I'm currently reorganizing the shack. I have an old picture of it that I can share, but it does not showcase the Drake equipment.

I enjoy hanging around 14.200 and listening for DX or 7.251 for the hams on South CARS. For every hour I spend in transmit, I probably spent 200 hours listening. I'm hoping this May will bring some good 6 meter conditions. I'm relatively new to 6m and I'm looking forward to operating the "magic band".

I retired 3 years ago and that's when the equipment came out of the closet. I packed it up when I moved to Florida and worked so many hours that I never had a chance to unpack it. I've discovered that some things died a slow death not being used and other things survived the isolation and look and operate like new.

73,

Fred M. Friedl, WX4US

EM60hm 30.521N 87.335W

Escambia County

Pensacola FL

[Non-text portions of this message have been removed]

2100. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-24 09:14:46 UTC
From: Victor Waddington
Topic: 606 Message: 2100

Hi
Mine just developed a fault. Haven't looked yet but thought I would ask first.
In Tune position loads up perfectly to 100w. Go to CW position and with gain increased to max only get 60w. Then I go key down and tune it in the CW position. Again I get 100w but I have to alter the load setting to get it and re adjust the dip. A minute later it's back down to 60w and again I have to re-adjust the plate and load settings to get back to 100w etc. etc. etc.
Also the XYL tells me she is getting TVI.
My guess would be the coupling cap to the tank cct but probably someone has had a similar experience and can assist me.
Cheers
Vic

2101. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-24 14:05:10 UTC
From: Garey Barrell
Topic: 606 Message: 2101

Vic -

Check value and condition of R104, 2.2M, 1/2W. Also R106, 15k, 1/2W.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi
> Mine just developed a fault. Haven't looked yet but thought I would ask first.
> In Tune position loads up perfectly to 100w. Go to CW position and with gain increased to max only get 60w. Then I go key down and tune it in the CW position. Again I get 100w but I have to alter the load setting to get it and re adjust the dip. A minute later it's back down to 60w and again I have to re-adjust the plate and load settings to get back to 100w etc. etc. etc.
> Also the XYL tells me she is getting TVI.
> My guess would be the coupling cap to the tank cct but probably someone has had a similar experience and can assist me.
> Cheers
> Vic
>
>
>

2102. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-24 15:36:31 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 2102

Hi Garey

Will do - nice to know that you QSO other groups.

Been a fraught week. House and garden look like a dumpsite.

Thanks

Vic
Information and Entertainment from Tiscali - http://www.tiscali.co.uk
---

[Non-text portions of this message have been removed]

2103. Re: T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-24 20:07:36 UTC
From: tnham63
Topic: 606 Message: 2103

Hi Vic
Garey gave me the smae tip a few months back and R104 2.2M resistor fixed it perfectly. So hope it does the same for you.

73
WINK
WA8KOQ ..

> Hi
> Mine just developed a fault. Haven't looked yet but thought I would ask first.
> In Tune position loads up perfectly to 100w. Go to CW position and with gain increased to max only get 60w. Then I go key down and tune it in the CW position. Again I get 100w but I have to alter the load setting to get it and re adjust the dip. A minute later it's back down to 60w and again I have to re-adjust the plate and load settings to get back to 100w etc. etc. etc.
> Also the XYL tells me she is getting TVI.
> My guess would be the coupling cap to the tank cct but probably someone has had a similar experience and can assist me.
> Cheers
> Vic
>

2104. CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-25 23:41:01 UTC
From: Mike
Topic: 2104 Message: 2104

Curious question! On cw, I am .5 below frequency, is this the norm for the TR7? I just got my rig back from the shop, works and looks great.

2105. RE: [DrakeRadio] CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 12:39:01 UTC
From: Bob Spooner
Topic: 2104 Message: 2105

Mike,

Where did you send it?

73,

Bob AD3K

Curious question! On cw, I am .5 below frequency, is this the norm for the TR7? I just got my rig back from the shop, works and looks great.

[Non-text portions of this message have been removed]

2106. I Knew it Was Just a Matter of Time..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 14:47:53 UTC
From: Garey Barrell
Topic: 2106 Message: 2106

Before tube equipment was sold "less tubes"..... Sad day...

http://tinyurl.com/cvz58y

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2107. Re: [DrakeRadio] I Knew it Was Just a Matter of Time..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 15:53:11 UTC
From: Don
Topic: 2106 Message: 2107

only marginally better than the ones that completely scrap the equipment
since the tubes are their only interest.

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, April 26, 2009 8:47 AM
Subject: [DrakeRadio] I Knew it Was Just a Matter of Time..

Before tube equipment was sold "less tubes"..... Sad day...

http://tinyurl.com/cvz58y

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

2108. Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 21:25:05 UTC
From: Mike
Topic: 2104 Message: 2108

Bob,
If I meet someone on 14.050, I have the radio tuned to 14.049.5. Is this the norm or how close to frequency are you?
thanks,
Mike, WD5CCw
--- In DrakeRadio@yahoogroups.com, "Bob Spooner" <rls19@...> wrote:
>
> Mike,
>
>
>
> Where did you send it?
>
>
>
> 73,
>
> Bob AD3K
>
>
>
> Curious question! On cw, I am .5 below frequency, is this the norm for the
> TR7? I just got my rig back from the shop, works and looks great.
>
>
>
> [Non-text portions of this message have been removed]
>

2109. Re: [DrakeRadio] Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 21:42:14 UTC
From: Forrest Plumstead
Topic: 2104 Message: 2109

Hi Mike!
There has to be an offset between TX and RX. For example my HW-8 has a DC receiver and the TX is 700 hz different from the RX freq. This is how you get your audio tone. Although I must say the 500 hz sounds a little low.
Hope this helps 73s.

--
Forrest Plumstead fplum1@...
PLUMSTEAD-L List master
http://lists.rootsweb.com/index/surname/p/plumstead.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Military Kool Lynx: http://geocities.com/fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
Photos: http://myspace.com/fplum7755

[Non-text portions of this message have been removed]

2110. Re: [DrakeRadio] Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 21:47:02 UTC
From: Forrest Plumstead
Topic: 2104 Message: 2110

Just checked my TR-4 Manual the Drake has a 1000 hz shift.

On Sun, Apr 26, 2009 at 4:42 PM, Forrest Plumstead <fplum1@...> wrote:

> Hi Mike!
> There has to be an offset between TX and RX. For example my HW-8 has a
> DC receiver and the TX is 700 hz different from the RX freq. This is how you
> get your audio tone. Although I must say the 500 hz sounds a little low.
> Hope this helps 73s.
>
> --
> Forrest Plumstead fplum1@...
> PLUMSTEAD-L List master
> http://lists.rootsweb.com/index/surname/p/plumstead.html
> Plumstead and Associated Families:
> http://freepages.genealogy.rootsweb.com/~fplum/
> Military Kool Lynx: http://geocities.com/fplum/
> Ham Radio WB5HQO http://forrest.3h.com/main.html
> Photos: http://myspace.com/fplum7755
>
>
>

[Non-text portions of this message have been removed]

2111. Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 21:49:13 UTC
From: Mike
Topic: 2104 Message: 2111

Isent the radio to WB4HFN, he restores Drake line equipment, sorry for not stating that earlier. Mine had the frequency jump on the upper bands, light out and cracked side mounts. It looks brand new and with all mods done on it also.
Mike
--- In DrakeRadio@yahoogroups.com, "Bob Spooner" <rls19@...> wrote:
>
> Mike,
>
>
>
> Where did you send it?
>
>
>
> 73,
>
> Bob AD3K
>
>
>
> Curious question! On cw, I am .5 below frequency, is this the norm for the
> TR7? I just got my rig back from the shop, works and looks great.
>
>
>
> [Non-text portions of this message have been removed]
>

2112. Re: [DrakeRadio] Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-26 22:51:17 UTC
From: Jim Shorney
Topic: 2104 Message: 2112

On Sun, 26 Apr 2009 16:42:14 -0500, Forrest Plumstead wrote:

>There has to be an offset between TX and RX. For example my HW-8 has a
>DC receiver and the TX is 700 hz different from the RX freq. This is how you
>get your audio tone. Although I must say the 500 hz sounds a little low.

The Drake spec for the TR7 CW offset is 800 Hz. This is adjustable via
a trimmer cap on the 2nf IF/Audio board. I think where the confusion
sometimes arises is that Drake shifts the TRANSMITTER down 800 Hz from
the dial frequency, whereas import rigs tend to shift the RECEIVER up
from the dial frequency. IOW, the Drake will read the RX frequency on
the dial, while an import rig would read the TX frequency on the dial.
Not a big deal, but enough that it could cause one to miss a sked if
listening with a narrow filter...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2113. not a new reader but never inntro'd my self

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 01:47:35 UTC
From: Wiley Clarkson
Topic: 2113 Message: 2113

I am WA5OTR and and have been following this forum for about a year. I rarily post! I have been an Advanced Class since apx 1970 operating all bands SSB 1.8-450 MHz SSB, FM and a smidgeon of CW. On July 7, 2007, my tower took a sustained lightening hit which did $13000 of damage that was only partially paid (apx 40%) by insurance. When trying to decide how to rebuild my station on extremly limited funds, I starting having nostalgia thoughts and the yearning for the warmth and glow of tubes and the feel of an old analog dial. My dream of an Drake station from my early days when I was raising my family on limited income took hold again and I eventually purchased an R4C and T4XC over Ebay. Both radio, unfortunately had more issues than was advertized (nothing unusual) and I ended up seeking the help of an established Drake expert who did a marvelous job on both. I hang out around 14.2MHz.

My web site is http://www.clarksons.org .

73's

Wiley

2114. Re: [DrakeRadio] not a new reader but never inntro'd my self

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 01:59:06 UTC
From: Don
Topic: 2113 Message: 2114

Thanks for the introduction !!
Took me a couple of minutes to find, but your shack pictures look good !
feel free to upload them to the groups photo section, the link as at the bottom of the e-mail, or can
be found on the groups yahoo webpage.

Don F.
AD7LL
http://www.srcisra.org/
http://home.pmt.org/~drfrasher/AD7LL.htm

----- Original Message -----
From: Wiley Clarkson
To: DrakeRadio@yahoogroups.com
Sent: Sunday, April 26, 2009 7:47 PM
Subject: [DrakeRadio] not a new reader but never inntro'd my self

I am WA5OTR and and have been following this forum for about a year. I rarily post! I have been an Advanced Class since apx 1970 operating all bands SSB 1.8-450 MHz SSB, FM and a smidgeon of CW. On July 7, 2007, my tower took a sustained lightening hit which did $13000 of damage that was only partially paid (apx 40%) by insurance. When trying to decide how to rebuild my station on extremly limited funds, I starting having nostalgia thoughts and the yearning for the warmth and glow of tubes and the feel of an old analog dial. My dream of an Drake station from my early days when I was raising my family on limited income took hold again and I eventually purchased an R4C and T4XC over Ebay. Both radio, unfortunately had more issues than was advertized (nothing unusual) and I ended up seeking the help of an established Drake expert who did a marvelous job on both. I hang out around 14.2MHz.

My web site is http://www.clarksons.org .

73's

Wiley

[Non-text portions of this message have been removed]

2115. TR-3 manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 03:17:09 UTC
From: Fred
Topic: 2115 Message: 2115

if anyone has a good manual would you please put it into the files section . the one I have is a copy of a copy of a copy . it is barely readable . the problem is that there is no RF output and no indication of K current on the metre . any help would be welcome .
tnx
andrew

2116. Re: [DrakeRadio] TR-3 manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 03:36:29 UTC
From: Jim Shorney
Topic: 2115 Message: 2116

On Mon, 27 Apr 2009 03:17:09 -0000, Fred wrote:

>if anyone has a good manual would you please put it into the files section . the one I have is a copy of a copy of a copy . it is barely readable . the problem is that there is no RF output and no indication of K current on the metre . any help would be welcome .

http://www.wb4hfn.com/DRAKE/DrakeManuals/TR3/Manual_TR3.htm

http://mods.dk/manual.php?brand=drake

http://bama.sbc.edu/drake.htm

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2117. Re: [DrakeRadio] TR-3 manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 14:48:45 UTC
From: Garey Barrell
Topic: 2115 Message: 2117

Andrew -

If the T/R relay 'clicks' when you switch to TUNE mode, check the CENTER terminal of the relay. The "arm" is ground, and controls the Receive and Transmit condition. Relay open, the N.C. contact (top) should be grounded, activating the Receiver circuits. Relay closed, the N.O. contact (bottom) should be grounded, activating the Transmitter circuits.

If the relay does NOT click in TUNE, then you'll have to investigate V19b circuitry.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Fred wrote:
> if anyone has a good manual would you please put it into the files section . the one I have is a copy of a copy of a copy . it is barely readable . the problem is that there is no RF output and no indication of K current on the metre . any help would be welcome .
> tnx
> andrew
>
>
>

2118. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 16:23:04 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 2118

Hi Garey and Wink

4XC up and running again - don't know how or why!!

Checked R's 104 & 106 and both OK.

So rocked all the valves and the relay and gave all the switches a small dose of contact cleaner (particularly S1d) then rotated them back and forth. Stuck it back on line and hey presto 100%.

I have to admit that I am a smoker so maybe the switches wanted de-tarring!!

Thanks for help.

Vic
Information and Entertainment from Tiscali - http://www.tiscali.co.uk
---

[Non-text portions of this message have been removed]

2119. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-27 17:22:10 UTC
From: Garey Barrell
Topic: 606 Message: 2119

Vic -

Can't argue with success!

For an otherwise working transmitter, those two resistors, the GAIN control itself, and the associated switch and wiring is all there is to it!

It IS a low voltage / low current circuit, so switch dirt is a consideration. Easier to check the resistors first, since R104 in particular tends to go high with age.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey and Wink
>
> 4XC up and running again - don't know how or why!!
>
> Checked R's 104 & 106 and both OK.
>
> So rocked all the valves and the relay and gave all the switches a small dose of contact cleaner (particularly S1d) then rotated them back and forth. Stuck it back on line and hey presto 100%.
>
> I have to admit that I am a smoker so maybe the switches wanted de-tarring!!
>
> Thanks for help.
>
> Vic
>

2120. Re: CW frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-28 00:29:43 UTC
From: Mike
Topic: 2104 Message: 2120

Ok, thanks for the info! And your right, if you don't know how far down to look, you may loose a sked. It seems like each Drake operates a little different. thanks for the help.
Mike, WD5CCW
--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sun, 26 Apr 2009 16:42:14 -0500, Forrest Plumstead wrote:
>
> >There has to be an offset between TX and RX. For example my HW-8 has a
> >DC receiver and the TX is 700 hz different from the RX freq. This is how you
> >get your audio tone. Although I must say the 500 hz sounds a little low.
>
>
> The Drake spec for the TR7 CW offset is 800 Hz. This is adjustable via
> a trimmer cap on the 2nf IF/Audio board. I think where the confusion
> sometimes arises is that Drake shifts the TRANSMITTER down 800 Hz from
> the dial frequency, whereas import rigs tend to shift the RECEIVER up
> from the dial frequency. IOW, the Drake will read the RX frequency on
> the dial, while an import rig would read the TX frequency on the dial.
> Not a big deal, but enough that it could cause one to miss a sked if
> listening with a narrow filter...
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2121. Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 09:48:53 UTC
From: gerrykav
Topic: 2121 Message: 2121

I have recently acquired a Drake 2-B/2-BQ setup. It is in physically excellent condition, and seems to be working pretty well too.

When I compare reception with some other radios I have, however, it seems that the 2-B is not performing up to what I expected. I have compared it to a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an Icom IC756 ProIII, and in all cases, the 2-B seems a good bit noisier. Also, if, for example, 20m is full of stations on the ProIII, I might hear 1 or 2 of the stronger ones on the 2-B.

Maybe I'm being unreasonable expecting a 40 year old radio to keep up with some of the best that the 21st century has to offer, but I understood that this was not entirely unrealistic.

I am considering a full overhaul... valve tests, pot/switch clean and maybe even cap replacement. Do the esteemed members of the list think that this would be worthwhile, considering that it does seem to work pretty well, sensitivity aside. No scratchiness on the pots or anything.

2122. Re: [DrakeRadio] Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 13:58:58 UTC
From: Garey Barrell
Topic: 2121 Message: 2122

This is definitely NOT normal. The 2-B in good order and alignment
will hear stations those receivers couldn't even imagine.

There are two specific areas to check first. I will attach some docs
from my service CD on the 2-B that will get you started.

The basic situation is that the 2-B has an _extremely_ high impedance
AVC circuit. As a result, it is subject to leakage across insulators,
gassy tubes, and misadjustment by "fixers" using inadequate test
equipment without proper consideration.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

gerrykav wrote:
> I have recently acquired a Drake 2-B/2-BQ setup. It is in physically excellent condition, and seems to be working pretty well too.
>
> When I compare reception with some other radios I have, however, it seems that the 2-B is not performing up to what I expected. I have compared it to a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an Icom IC756 ProIII, and in all cases, the 2-B seems a good bit noisier. Also, if, for example, 20m is full of stations on the ProIII, I might hear 1 or 2 of the stronger ones on the 2-B.
>
> Maybe I'm being unreasonable expecting a 40 year old radio to keep up with some of the best that the 21st century has to offer, but I understood that this was not entirely unrealistic.
>
> I am considering a full overhaul... valve tests, pot/switch clean and maybe even cap replacement. Do the esteemed members of the list think that this would be worthwhile, considering that it does seem to work pretty well, sensitivity aside. No scratchiness on the pots or anything.
>
>
>

2123. RE: [DrakeRadio] Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 14:06:15 UTC
From: Bob Spooner
Topic: 2121 Message: 2123

I have recently acquired a Drake 2-B/2-BQ setup. It is in physically excellent condition, and seems to be working pretty well too.

When I compare reception with some other radios I have, however, it seems that the 2-B is not performing up to what I expected. I have compared it to a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an Icom IC756 ProIII, and in all cases, the 2-B seems a good bit noisier. Also, if, for example, 20m is full of stations on the ProIII, I might hear 1 or 2 of the stronger ones on the 2-B.

Maybe I'm being unreasonable expecting a 40 year old radio to keep up with some of the best that the 21st century has to offer, but I understood that this was not entirely unrealistic.

I am considering a full overhaul... valve tests, pot/switch clean and maybe even cap replacement. Do the esteemed members of the list think that this would be worthwhile, considering that it does seem to work pretty well, sensitivity aside. No scratchiness on the pots or anything.

Gerry,

Your 2-B may need an alignment and/or a new tube or two. In addition, tubes are inherently more noisy than transistors.

73,

Bob AD3K

[Non-text portions of this message have been removed]

2124. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 14:16:28 UTC
From: toptyp19
Topic: 2121 Message: 2124

Hi Gerry-
There is no reason that the 2B shouldn't be as sensitive as anything else. First thing to do is check all the tubes with a good mutual conductance tester. This will give you an idea of tube quality. If
all tubes check good, do an alignment via the manual. If you need new
electrolytics that will be easily deduced by the hum in the audio!
Especially while using the 2BQ on CW sigs! I have 6 2B's here and 1
2A and they all hear as well and sometimes better than my more expensive receivers. You should be able to obtain a sensitivity of less than .5 microvolts, maybe to .3. Keep us informed.
Joe-WA9LAE P.S. If things still aren't up to snuff, there are many here who can help and lots of good stuff in the files.

--- In DrakeRadio@yahoogroups.com, "gerrykav" <gerryk777@...> wrote:
>
> I have recently acquired a Drake 2-B/2-BQ setup. It is in physically excellent condition, and seems to be working pretty well too.
>
> When I compare reception with some other radios I have, however, it seems that the 2-B is not performing up to what I expected. I have compared it to a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an Icom IC756 ProIII, and in all cases, the 2-B seems a good bit noisier. Also, if, for example, 20m is full of stations on the ProIII, I might hear 1 or 2 of the stronger ones on the 2-B.
>
> Maybe I'm being unreasonable expecting a 40 year old radio to keep up with some of the best that the 21st century has to offer, but I understood that this was not entirely unrealistic.
>
> I am considering a full overhaul... valve tests, pot/switch clean and maybe even cap replacement. Do the esteemed members of the list think that this would be worthwhile, considering that it does seem to work pretty well, sensitivity aside. No scratchiness on the pots or anything.
>

2125. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 15:13:04 UTC
From: gerrykav
Topic: 2121 Message: 2125

Thanks everyone for the replies.

I do not notice any hum on the audio... this applies with listening to CW, any carrier heterodynes, or the crystal calibrator carrier.

I believe that I should be well able to carry out the necessary repairs, and will endeavour to do so with a measure of sensitivity to the radio and its heritage.
I also have a friend with a valve tester, so I'll ask him to do the needful there.

Garey, thanks for your offer of attaching docs... I came across your site while looking for information over the last few days, and will be purchasing one of your CDs in the near future.

2126. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 15:30:54 UTC
From: Garey Barrell
Topic: 2121 Message: 2126

Note that valve testers are notoriously poor at testing for gas, (among other things.)

New, preferably known good valves are the only way to ensure that you don't have a valve problem. Other than a seriously depleted cathode or element short, your guess is as good as the tester's! :-)

The 12BA6 and 12BE6 are particularly susceptible to gas problems, and even new old stock valves MAY be gassy.

Also note that the correct valve is an 8BN8, NOT the "logical" 6BN8. This is for hum reduction purposes.

As mentioned earlier, the high impedance circuitry in the 2-B makes it susceptible to moisture absorption when stored or just left off for long periods in humid conditions. Letting it run for several hours after storage will often clear up strange problems. A warm, dry 2-B is a happy 2-B...! :-)

All that said, the 2-B is a great receiver, and will be your favorite when it is working properly!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

gerrykav wrote:
> Thanks everyone for the replies.
>
> I do not notice any hum on the audio... this applies with listening to CW, any carrier heterodynes, or the crystal calibrator carrier.
>
> I believe that I should be well able to carry out the necessary repairs, and will endeavour to do so with a measure of sensitivity to the radio and its heritage.
> I also have a friend with a valve tester, so I'll ask him to do the needful there.
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> Garey, thanks for your offer of attaching docs... I came across your site while looking for information over the last few days, and will be purchasing one of your CDs in the near future.
>
>
>

2127. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 15:44:35 UTC
From: Tim Stotenburg
Topic: 2121 Message: 2127

Ditto on the NOS tested good 12BA6, has left me scratching my head a few times. Nice to have a working reciever that has good tubes.

Tim Ki6NQT

2128. Re: [DrakeRadio] Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-29 22:41:19 UTC
From: Richard Knoppow
Topic: 2121 Message: 2128

----- Original Message -----
From: "Bob Spooner" <rls19@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, April 29, 2009 7:06 AM
Subject: RE: [DrakeRadio] Drake 2-B comparative performance

>I have recently acquired a Drake 2-B/2-BQ setup. It is in
>physically
> excellent condition, and seems to be working pretty well
> too.
>
> When I compare reception with some other radios I have,
> however, it seems
> that the 2-B is not performing up to what I expected. I
> have compared it to
> a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an
> Icom IC756
> ProIII, and in all cases, the 2-B seems a good bit
> noisier. Also, if, for
> example, 20m is full of stations on the ProIII, I might
> hear 1 or 2 of the
> stronger ones on the 2-B.
>
> Maybe I'm being unreasonable expecting a 40 year old radio
> to keep up with
> some of the best that the 21st century has to offer, but I
> understood that
> this was not entirely unrealistic.
>
> I am considering a full overhaul... valve tests,
> pot/switch clean and maybe
> even cap replacement. Do the esteemed members of the list
> think that this
> would be worthwhile, considering that it does seem to work
> pretty well,
> sensitivity aside. No scratchiness on the pots or
> anything.
>
> Gerry,
>
> Your 2-B may need an alignment and/or a new tube or two.
> In addition, tubes
> are inherently more noisy than transistors.
>
> 73,

>
> Bob AD3K
>
>
Wether tubes are inherently noisier or not the noise
level should be well below the noise delivered to the set by
the antenna, the input stage of receivers with RF stages is
rarely limited by the noise figure of the input stage. Even
my ancient S-20R is limited mostly by atmospheric noise or
local electrical noise. Its much more likely that this RX is
out of alignment or has some other problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2129. RE: [DrakeRadio] Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 12:19:35 UTC
From: Bob Spooner
Topic: 2121 Message: 2129

>I have recently acquired a Drake 2-B/2-BQ setup. It is in
>physically
> excellent condition, and seems to be working pretty well
> too.
>
> When I compare reception with some other radios I have,
> however, it seems
> that the 2-B is not performing up to what I expected. I
> have compared it to
> a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an
> Icom IC756
> ProIII, and in all cases, the 2-B seems a good bit
> noisier. Also, if, for
> example, 20m is full of stations on the ProIII, I might
> hear 1 or 2 of the
> stronger ones on the 2-B.
>
> Maybe I'm being unreasonable expecting a 40 year old radio
> to keep up with
> some of the best that the 21st century has to offer, but I
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> this was not entirely unrealistic.
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> I am considering a full overhaul... valve tests,
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> even cap replacement. Do the esteemed members of the list
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> sensitivity aside. No scratchiness on the pots or
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> Gerry,
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> Bob AD3K
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my ancient S-20R is limited mostly by atmospheric noise or
local electrical noise. Its much more likely that this RX is
out of alignment or has some other problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix. <mailto:dickburk%40ix.netcom.com> netcom.com

Richard,

Atmospheric noise dominates until you get up around 15 meters. On the higher
bands the noise level of the receiver becomes more important, since the
level of atmospheric noise becomes less.

73,

Bob AD3K

[Non-text portions of this message have been removed]

2130. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 12:40:25 UTC
From: russellhulett
Topic: 2121 Message: 2130

So what is the correct strategy to obtain tubes of sufficient quality to work well in the Drake AVC circuit? I have an R-4 with suspect AVC performance, probably one or more of the tubes in the AVC are not up to par. Just buying "NOS" tubes seems an expensive and probably unsuccessful way to solve the problem. The only tube tester I own is a simple emission tester, so a gassed tube can't be identified.

73, Curt KB5JO

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Note that valve testers are notoriously poor at testing for gas, (among
> other things.)

2131. Re: [DrakeRadio] Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 14:38:20 UTC
From: Garey Barrell
Topic: 2121 Message: 2131

Bob Spooner wrote:
>> I have recently acquired a Drake 2-B/2-BQ setup. It is in
>> physically
>> excellent condition, and seems to be working pretty well
>> too.
>>
>> When I compare reception with some other radios I have,
>> however, it seems
>> that the 2-B is not performing up to what I expected. I
>> have compared it to
>> a Kenwood TS530SP, a Yaesu FT897D, an Alinco DX70TH and an
>> Icom IC756
>> ProIII, and in all cases, the 2-B seems a good bit
>> noisier. Also, if, for
>> example, 20m is full of stations on the ProIII, I might
>> hear 1 or 2 of the
>> stronger ones on the 2-B.
>>
>> Maybe I'm being unreasonable expecting a 40 year old radio
>> to keep up with
>> some of the best that the 21st century has to offer, but I
>> understood that
>> this was not entirely unrealistic.
>>
>> I am considering a full overhaul... valve tests,
>> pot/switch clean and maybe
>> even cap replacement. Do the esteemed members of the list
>> think that this
>> would be worthwhile, considering that it does seem to work
>> pretty well,
>> sensitivity aside. No scratchiness on the pots or
>> anything.
>>
>> Gerry,
>>
>> Your 2-B may need an alignment and/or a new tube or two.
>> In addition, tubes
>> are inherently more noisy than transistors.
>>
>> 73,
>>
>> Bob AD3K
>>
>>
>>

> Wether tubes are inherently noisier or not the noise
> level should be well below the noise delivered to the set by
> the antenna, the input stage of receivers with RF stages is
> rarely limited by the noise figure of the input stage. Even
> my ancient S-20R is limited mostly by atmospheric noise or
> local electrical noise. Its much more likely that this RX is
> out of alignment or has some other problem.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@ix. <mailto:dickburk%40ix.netcom.com> netcom.com
>
> Richard,
>
>
>
> Atmospheric noise dominates until you get up around 15 meters. On the higher
> bands the noise level of the receiver becomes more important, since the
> level of atmospheric noise becomes less.
>
>
>
> 73,
>
> Bob AD3K
>
>

Granted that "tubes are noisier than semiconductors", (a VERY broad statement,) primarily because of thermal agitation of electrons, the basic fact remains that for just about anywhere you care to be in today's world you have to go well above 30 MHz for a receiver to be limited by "internal" noise.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2132. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 15:29:52 UTC
From: querencias
Topic: 2121 Message: 2132

Gerry,

The 2B is one of the best receivers I've ever used with respect to sensitivity, and it's only mildly noisier than my TR-7.

There is a capacitor kit available with a replacement for the power supply filters and includes an electrolytic on the cathode of the audio output stage.

http://www.hayseedhamfest.com/capkit.htm

It made a lot of difference. Never bothered to do an alignment but did replace 3 tubes recently. As a result the 2B is significantly quieter and a little more sensitive.

Hang onto it - they're among the best

73 Grant KT6L

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Bob Spooner" <rls19@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, April 29, 2009 7:06 AM
> Subject: RE: [DrakeRadio] Drake 2-B comparative performance
>
>
> >I have recently acquired a Drake 2-B/2-BQ setup.

2133. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 16:03:50 UTC
From: Garey Barrell
Topic: 2121 Message: 2133

Curt -

Good question. Fortunately, a large majority of NOS tubes ARE ok. My warning is actually to make you aware that replacing a single tube with a new one, when you suspect gas might be the problem, MAY not ABSOLUTELY PROVE that the problem is something other than a tube.

Certain tubes seem to be more susceptible to gas problems, 12BA6, 12BE6 and a few others. Of course part of the problem is that these are the tubes that are used in high gain IF and Mixer stages that are designed to have their gain controlled by a negative bias on the grid!

So.... If you have a condition that you think might be related to a gassy tube, and replacing the tube with a NOS one does NOT cure the problem, it would be best to try another tube before eliminating that possibility completely.

"Professional" repair people have long kept a private stash of "golden", or KNOWN good tubes for troubleshooting purposes. As has been said so many times, the only absolute test for a tube is "does it work properly in the circuit under investigation?".

A couple of spares for tubes in your radios is a good idea. They're not going to get any cheaper! If you have a friend with the same or similar unit that is working well, stick one of your spare tubes in his radio and see if it keeps working!

One other tip. Gas problems tend to show up after 15-30 minutes of operation. So if you zero your S-Meter at turn-on, and 15 minutes later its drifted below (or above) zero, you likely have a gassy tube.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> So what is the correct strategy to obtain tubes of sufficient quality to work well in the Drake AVC circuit? I have an R-4 with suspect AVC performance, probably one or more of the tubes in the AVC are not up to par. Just buying "NOS" tubes seems an expensive and probably unsuccessful way to solve the problem. The only tube tester I own is a simple emission tester, so a gassed tube can't be identified.
>
> 73, Curt KB5JO
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:

>
>> Note that valve testers are notoriously poor at testing for gas, (among
>> other things.)
>>
>

2134. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 18:14:18 UTC
From: Richard Knoppow
Topic: 2121 Message: 2134

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 30, 2009 9:03 AM
Subject: Re: [DrakeRadio] Re: Drake 2-B comparative
performance

> Curt -
>
> Good question. Fortunately, a large majority of NOS
> tubes ARE ok. My
> warning is actually to make you aware that replacing a
> single tube with
> a new one, when you suspect gas might be the problem, MAY
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> Certain tubes seem to be more susceptible to gas problems,
> 12BA6, 12BE6
> and a few others. Of course part of the problem is that
> these are the
> tubes that are used in high gain IF and Mixer stages that
> are designed
> to have their gain controlled by a negative bias on the
> grid!
>
> So.... If you have a condition that you think might be
> related to a
> gassy tube, and replacing the tube with a NOS one does NOT
> cure the
> problem, it would be best to try another tube before
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
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>
My own take is that gas is seldom a real problem. Tubes
are subject to a lot of defects, for instance heater to
cathode leakage which can cause a bias shift and variation
of emmision with time. Drift in DC circuits can be caused by
either.
Many tube testers are set up to detect inter-electrode
shorts but that test will often show up a gassy tube.
Simple emission testers are useful mainly for finding
tubes which are nearly dead, a transconductance or mutual
conductance (they are different names for the same thing)
tester is much more useful because it tests tubes as
amplifiers. Its quite true that a tube which tests good may
not work in some circuits. That is because some designers
relyed on tubes to be out of spec and have higher or lower
transconductance than "normal". An example is the Boonton
type 202A signal generator. These have three tubes of the
same type (I've fogotten which) but at Hewlett-Packard they
came under three part numbers each selected for the correct
transconductance for the particular position in the
generator. This is really bad design but similiar situations
are fairly common.
As far as the 2B under discussion I rather doubt if a
tube is the problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2135. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 18:57:14 UTC
From: gerrykav
Topic: 2121 Message: 2135

I think that in the light of all the advice that has been given, I'll start small and work my way through, checking as I go for improvements. I know the ear is hardly a measure of performance, but, in the absence of test gear, it will have to do. I'll start be reseating everything and giving the chassis a wipe down and continue by recapping and doing the alignment as per the manual.
Given the cost of tube sets, I will probably pick up a set anyhow... I have a couple of sets of drivers and finals for the TS530, which I will probably never use, but it gives me a feeling of comfort to know that they're there (for the great tube drought of the future :)).

I did some more subjective testing, and it seems that the AVC circuit might be behind some of the perceived issues. I experience S3 noise on 80m in the morning where I live, and the Pro III can hear stations not far above that quite well. If I tune the 2B to the same frequency, I can tell that there's a station there, but it never seems to quite resolve out of the noise with either fast or slow AVC. It also seems that the product detector may be experiencing some issues, as the zero-beat point, or the point where the quackiness is at a minimum never quite happens, unless it's a seriously strong signal.

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, April 30, 2009 9:03 AM
> Subject: Re: [DrakeRadio] Re: Drake 2-B comparative
> performance
>
>
> > Curt -
> >
> > Good question. Fortunately, a large majority of NOS
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> > a new one, when you suspect gas might be the problem, MAY
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> > PROVE that the problem is something other than a tube.
> >
> > Certain tubes seem to be more susceptible to gas problems,
> > 12BA6, 12BE6
> > and a few others. Of course part of the problem is that
> > these are the
> > tubes that are used in high gain IF and Mixer stages that
> > are designed

> > to have their gain controlled by a negative bias on the
> > grid!
> >
> > So.... If you have a condition that you think might be
> > related to a
> > gassy tube, and replacing the tube with a NOS one does NOT
> > cure the
> > problem, it would be best to try another tube before
> > eliminating that
> > possibility completely.
> >
> > "Professional" repair people have long kept a private
> > stash of "golden",
> > or KNOWN good tubes for troubleshooting purposes. As has
> > been said so
> > many times, the only absolute test for a tube is "does it
> > work properly
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> > A couple of spares for tubes in your radios is a good
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> > One other tip. Gas problems tend to show up after 15-30
> > minutes of
> > operation. So if you zero your S-Meter at turn-on, and 15
> > minutes later
> > its drifted below (or above) zero, you likely have a gassy
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> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
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> > Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> > <www.k4oah.com>
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> My own take is that gas is seldom a real problem. Tubes
> are subject to a lot of defects, for instance heater to
> cathode leakage which can cause a bias shift and variation
> of emmision with time. Drift in DC circuits can be caused by
> either.
> Many tube testers are set up to detect inter-electrode
> shorts but that test will often show up a gassy tube.
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> tubes which are nearly dead, a transconductance or mutual
> conductance (they are different names for the same thing)

> tester is much more useful because it tests tubes as
> amplifiers. Its quite true that a tube which tests good may
> not work in some circuits. That is because some designers
> relyed on tubes to be out of spec and have higher or lower
> transconductance than "normal". An example is the Boonton
> type 202A signal generator. These have three tubes of the
> same type (I've fogotten which) but at Hewlett-Packard they
> came under three part numbers each selected for the correct
> transconductance for the particular position in the
> generator. This is really bad design but similiar situations
> are fairly common.
> As far as the 2B under discussion I rather doubt if a
> tube is the problem.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

2136. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 20:13:32 UTC
From: Garey Barrell
Topic: 2121 Message: 2136

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, April 30, 2009 9:03 AM
> Subject: Re: [DrakeRadio] Re: Drake 2-B comparative
> performance
>
>
>
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>> 73, Garey - K4OAH
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> As far as the 2B under discussion I rather doubt if a
> tube is the problem.
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> --
> Richard Knoppow
> Los Angeles

> WB6KBL
> dickburk@...
>
>
I think if you had seen as many tubes exhibiting "gas" or "grid emission" and dragging down AVC lines as I have over the last 50 years you might change your opinion!! :-) I believe it's highly likely that the 2-B under discussion is an AVC problem, and most of those turn out to be a tube problem. It may in fact be as simple as a misadjusted AVC threshold adjustment, often caused by using a low impedance DMM rather than either a quality DMM or VTVM.

The 2-B AVC circuit especially can be dragged down by an 11Meg VTVM, and 12BA6 tubes especially just love to even go slightly positive on the grid in an otherwise well operating receiver.

Drake engineers were pretty good about designing circuitry so that tubes could be replaced without realignment. NO new tube sold 40 years ago should have been gassy, so it was not unreasonable to expect any new tube would perform as expected. With the tubes available today being at least 30 years old, and stored in unknown and certainly uncontrolled conditions, all those expectations are long gone! The "gas" test performed by most quality tube testers does NOT discriminate between true gas and interelement leakage, so a tube that is not "gassy" could still test gassy due to leakage.

Your 202A example is a situation that often happens when the capabilities of the hardware are pushing the envelope of the day. Tektronix used lots of "selected" and "aged" tubes in many of their scopes, because the tube manufacturer's specifications were fine for use in a TV set, but only a much narrower set of conditions would suffice for what Tek was doing with their scope designs. My professional life was entirely solid state, and I'm all too familiar with what we had to do to get transistor power amplifier transistors to operate at 450 MHz forty years ago!!

It'll be interesting to hear what the problem, (and there IS a problem,) turns out to be!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2137. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-04-30 21:32:36 UTC
From: Garey Barrell
Topic: 2121 Message: 2137

Have you learned to use the Passband Tuning yet?

Check the AVC setting procedure on page 26 of the manual. This sets the overall gain of the receiver.

Set the S-Meter to S-1 using the adjustment just above the Phones jack on the front panel. If you have the 2-AC Crystal Calibrator, you can approximate the S-Meter calibration by tuning in the Calibrator at 3.8 MHz, and adjusting the S-Meter Cal control for 20 dB over S-9.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

gerrykav wrote:
> I think that in the light of all the advice that has been given, I'll start small and work my way through, checking as I go for improvements. I know the ear is hardly a measure of performance, but, in the absence of test gear, it will have to do. I'll start be reseating everything and giving the chassis a wipe down and continue by recapping and doing the alignment as per the manual.
> Given the cost of tube sets, I will probably pick up a set anyhow... I have a couple of sets of drivers and finals for the TS530, which I will probably never use, but it gives me a feeling of comfort to know that they're there (for the great tube drought of the future :)).
>
> I did some more subjective testing, and it seems that the AVC circuit might be behind some of the perceived issues. I experience S3 noise on 80m in the morning where I live, and the Pro III can hear stations not far above that quite well. If I tune the 2B to the same frequency, I can tell that there's a station there, but it never seems to quite resolve out of the noise with either fast or slow AVC. It also seems that the product detector may be experiencing some issues, as the zero-beat point, or the point where the quackiness is at a minimum never quite happens, unless it's a seriously strong signal.
>
> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>

2138. Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-01 16:44:20 UTC
From: querencias
Topic: 2121 Message: 2138

let me recommend RF Parts,

http://www.rfparts.com/

an excellent source of "rf parts" and not just vacuum tubes, run by Hams. They also have an outstanding collection of some famous boat anchors, if you're in So Cal they're just north of San Diego. All the tubes whlich I have purchased have all turned out to be a good investment although they aren't cheap.

Incidentally, I'm becoming acutely aware that bipolar transistors are becoming more rare than old tubes! Some transistors in a MC 2105 audio amp I have are no longer available - anyone have a good source?
already checked Mouser, Digikey, etc.

Grant

--- In DrakeRadio@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> So what is the correct strategy to obtain tubes of sufficient quality to work well in the Drake AVC circuit?

2139. Re: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-01 17:11:30 UTC
From: Jim Harris
Topic: 2121 Message: 2139

Give this place a try and see if they have what you are looking for as they specialise in obsolete transistors etc.

http://www.rfpowerx.com/

Jim VE1RB

On Fri, May 1, 2009 at 1:44 PM, querencias <tuquerencia@...> wrote:

>
>
> let me recommend RF Parts,
>
> http://www.rfparts.com/
>
> an excellent source of "rf parts" and not just vacuum tubes, run by Hams.
> They also have an outstanding collection of some famous boat anchors, if
> you're in So Cal they're just north of San Diego. All the tubes whlich I
> have purchased have all turned out to be a good investment although they
> aren't cheap.
>
> Incidentally, I'm becoming acutely aware that bipolar transistors are
> becoming more rare than old tubes! Some transistors in a MC 2105 audio amp I
> have are no longer available - anyone have a good source?
> already checked Mouser, Digikey, etc.
>
> Grant
>
> --- In DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>,
> "russellhulett" <rhulett1@...> wrote:
> >
> > So what is the correct strategy to obtain tubes of sufficient quality to
> work well in the Drake AVC circuit?
>
>
>
>

[Non-text portions of this message have been removed]

2140. RE: [DrakeRadio] Re: Drake 2-B comparative performance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-01 17:18:43 UTC
From: Steve Finch
Topic: 2121 Message: 2140

I find that many original part numbered transistors and DIP□s can be cross referenced at NTE Electronic, http://www.nteinc.com/ , to a suitable substitute.

Steve

AIØW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of querencias
Sent: Friday, May 01, 2009 10:44 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake 2-B comparative performance

let me recommend RF Parts,

http://www.rfparts.com/

an excellent source of "rf parts" and not just vacuum tubes, run by Hams. They also have an outstanding collection of some famous boat anchors, if you're in So Cal they're just north of San Diego. All the tubes whlich I have purchased have all turned out to be a good investment although they aren't cheap.

Incidentally, I'm becoming acutely aware that bipolar transistors are becoming more rare than old tubes! Some transistors in a MC 2105 audio amp I have are no longer available - anyone have a good source?
already checked Mouser, Digikey, etc.

Grant

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "russellhulett" <rhulett1@...> wrote:
>
> So what is the correct strategy to obtain tubes of sufficient quality to work well in the Drake AVC circuit?

[Non-text portions of this message have been removed]

2141. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-03 19:00:57 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2141

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2142. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 09:12:58 UTC
From: Victor Waddington
Topic: 855 Message: 2142

Hi
My TR7 is fitted with a 115v AC fan but as I don't have the PS7 and run it from a standard 25/30 amp PSU I don't have 115 AC.
I have a 12v DC fan which fits. A while ago I read something about using a thermistor so that the fan came on as required. Can anyone tell me what spec of thermistor I need to run from 12v and the best place to place it. Also the most convenient place to tap 12v off to run via the thermistor to the fan?

73
Vic

2143. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 14:07:22 UTC
From: Garey Barrell
Topic: 855 Message: 2143

Vic -

Couple of things.

1. I don't think the "variable" fan is a good idea. Much better for a consistent internal temperature that the fan run continuously. If the fan is noisy enough that it's a problem, then slow it down or get a quieter fan. It doesn't take a "hurricane" of air to keep the transceiver at a reasonable temperature. Whatever you do, mount it to blow _OUT_ as the TR-7 cooling system is designed.

2. The best place to get your "12 VDC" is to just add a couple of leads in the back of your DC connector and bring them over to the fan. No internal hacking required.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi
> My TR7 is fitted with a 115v AC fan but as I don't have the PS7 and run it from a standard 25/30 amp PSU I don't have 115 AC.
> I have a 12v DC fan which fits. A while ago I read something about using a thermistor so that the fan came on as required. Can anyone tell me what spec of thermistor I need to run from 12v and the best place to place it. Also the most convenient place to tap 12v off to run via the thermistor to the fan?
>
> 73
> Vic
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
> --
>
>
> No virus found in this incoming message.

> Checked by AVG - www.avg.com
> Version: 8.5.287 / Virus Database: 270.12.17/2095 - Release Date: 05/04/09 06:00:00
>
>

2144. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 15:13:50 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2144

Hello Garey

Dependable as ever.

Yep I take your point about the variable fan/constant temp etc.

So it becomes a very simple job - just hook up the fan to the PSU / DC connector(blowing out) and off we go. As you say this will keep it at a constant temp as opposed to highs and lows.

Thanks and cheers

Vic

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http://www.tiscali.co.uk_____

[Non-text portions of this message have been removed]

2145. Re: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 21:19:58 UTC
From: Jim Shorney
Topic: 855 Message: 2145

On Tue, 5 May 2009 16:13:50 +0100 (GMT+01:00), g4jss@...
wrote:

>Dependable as ever.
>
>Yep I take your point about the variable fan/constant temp etc.

I agree completely with Gary.

If you have a source of 115 VAC available, it's easy enough to power the stock fan. You can either wire up an AC power cord to the correct pins on a Jones connector that fits the PS7 control connector on the back of the rig to allow the fan to be switched on with the power switch on the radio, or just plug the fan itself directly into an extension cord to a 115 VAC source that you can switch on/off.

If you go with a 12V fan, try to get a good ball-bearing fan, or a Panasonic Panaflo. The typical cheapo sleeve bearing "computer" fans are designed to die when you need them the most. At least, that's the way it seems...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2146. R-4 cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 22:27:17 UTC
From: russellhulett
Topic: 2146 Message: 2146

Recently bought some cables (from a Drake cable fabricator) to interconnect my R-4 with my T-4XB. The RCA connectors on the R-4 are too close together to allow the cables to seat properly because of molded covering of the RCA connectors. Obviously the purchased cables aren't correct for the R-4, despite the fact I specified they were for the R-4.

Appreciate advice about where to obtain the correct cables, alternatively where to obtain the correct RCA plugs to rebuild the cables.

73, Curt KB5JO

2147. Re: R-4 cable question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-05 23:59:25 UTC
From: toptyp19
Topic: 2146 Message: 2147

Hi Curt-
Why not try trimming off the molded part so the metal shell is exposed?
If this doesn't work out you can always clip off the connectors and solder different ones that do fit. I'm sure you could get those from Mouser; maybe even Radioshack.
Joe-WA9LAE

--- In DrakeRadio@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Recently bought some cables (from a Drake cable fabricator) to interconnect my R-4 with my T-4XB. The RCA connectors on the R-4 are too close together to allow the cables to seat properly because of molded covering of the RCA connectors. Obviously the purchased cables aren't correct for the R-4, despite the fact I specified they were for the R-4.
>
> Appreciate advice about where to obtain the correct cables, alternatively where to obtain the correct RCA plugs to rebuild the cables.
>
> 73, Curt KB5JO
>

2148. Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-06 12:17:41 UTC
From: don_k0clw
Topic: 2148 Message: 2148

Have a Drake R4, serial number 0035 and a T4, serial number 0537 that were obtained from a former SK. Both items are in exceptionally good condition and with the exception of a little dust, the copper chassis on both items are very clean. Both the receiver and exciter are in operating condition as I tested both with a good AC3 power supply. I am inclined to believe that these were purchased originally by the SK although I don't know that for a fact. If someone in this group is interested, I'll entertain a good offer for both units to include shipping. My email is good on QRZ.com.
Thanks
Don
K0CLW

2149. Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-06 18:57:18 UTC
From: don_k0clw
Topic: 2148 Message: 2149

--- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@...> wrote:
>
> Have a Drake R4, serial number 0537 and a T4, serial number 0031 that were obtained from a former SK. Both items are in exceptionally good condition and with the exception of a little dust, the copper chassis on both items are very clean. Both the receiver and exciter are in operating condition as I tested both with a good AC3 power supply. I am inclined to believe that these were purchased originally by the SK although I don't know that for a fact. If someone in this group is interested, I'll entertain a good offer for both units to include shipping.
A set of photos can be viewed at http://sunflowerpixels.net/drake/index.html
My email is good on QRZ.com.
> Thanks
> Don
> K0CLW
>

2150. Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-06 18:58:59 UTC
From: don_k0clw
Topic: 2148 Message: 2150

--- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@...> wrote:
>
> Have a Drake R4, serial number 0035 and a T4, serial number 0537 that were obtained from a former SK. Both items are in exceptionally good condition and with the exception of a little dust, the copper chassis on both items are very clean. Both the receiver and exciter are in operating condition as I tested both with a good AC3 power supply. I am inclined to believe that these were purchased originally by the SK although I don't know that for a fact. If someone in this group is interested, I'll entertain a good offer for both units to include shipping. My email is good on QRZ.com.
> Thanks
> Don
> K0CLW
>
The above serial numbers were incorrectly listed - the R4 has a serial number of 0537 and the T4 has a serial number of 0031. A set of photos can be viewed at http://sunflowerpixels.net/drake/index.html

2151. Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-06 23:18:57 UTC
From: don_k0clw
Topic: 2148 Message: 2151

ITEM IS SOLD - thank you for your interest.

--- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@> wrote:
> >
> > Have a Drake R4, serial number 0035 and a T4, serial number 0537 that were obtained from a former SK. Both items are in exceptionally good condition and with the exception of a little dust, the copper chassis on both items are very clean. Both the receiver and exciter are in operating condition as I tested both with a good AC3 power supply. I am inclined to believe that these were purchased originally by the SK although I don't know that for a fact. If someone in this group is interested, I'll entertain a good offer for both units to include shipping. My email is good on QRZ.com.
> > Thanks
> > Don
> > K0CLW
> >
> The above serial numbers were incorrectly listed - the R4 has a serial number of 0537 and the T4 has a serial number of 0031. A set of photos can be viewed at http://sunflowerpixels.net/drake/index.html
>

2152. Re: [DrakeRadio] Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 01:37:50 UTC
From: Jim Gerke
Topic: 2148 Message: 2152

If the person you acquired the equipment is a "former SK" does that mean
he/she is still alive? :)

-- Jim

don_k0clw wrote:
> ITEM IS SOLD - thank you for your interest.
>
>
> --- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@...> wrote:
>
>> Have a Drake R4, serial number 0035 and a T4,
>> serial number 0537 that were obtained from
>> a former SK.

2153. Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 02:59:32 UTC
From: don_k0clw
Topic: 2148 Message: 2153

That was kind of a "poor choice" of words on my part now wasn't it - I wonder where thatt fits into the "politically correct" agenda of today.

--- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@...> wrote:
>
> If the person you acquired the equipment is a "former SK" does that mean
> he/she is still alive? :)
>
> -- Jim
>
> don_k0clw wrote:
> > ITEM IS SOLD - thank you for your interest.
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@> wrote:
> >
> >> Have a Drake R4, serial number 0035 and a T4,
> >> serial number 0537 that were obtained from
> >> a former SK.
>

2154. Re: Drake R4 and T4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 03:01:24 UTC
From: don_k0clw
Topic: 2148 Message: 2154

--- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@...> wrote:
>
> That was kind of a "poor choice" of words on my part now wasn't it - I wonder where that fits into the "politically correct" agenda of today.
>
> --- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@> wrote:
> >
> > If the person you acquired the equipment is a "former SK" does that mean
> > he/she is still alive? :)
> >
> > -- Jim
> >
> > don_k0clw wrote:
> > > ITEM IS SOLD - thank you for your interest.
> > >
> > >
> > > --- In DrakeRadio@yahoogroups.com, "don_k0clw" <don@> wrote:
> > >
> > >> Have a Drake R4, serial number 0035 and a T4,
> > >> serial number 0537 that were obtained from
> > >> a former SK.
> > >
>

2155. Re: [DrakeRadio] TR7 and R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 08:52:28 UTC
From: g4jss@tiscali.co.uk
Topic: 2155 Message: 2155

Hi Jim and all

Thanks for info. Have temporarily fitted a cheap 12v computer fan - bit noisy but will do until I get something better.

A further question re R4C. I have two of them and they both work well. One is a much earlier model than the other. On one of them when I switch on the S meter needle slowly rises to nearly FSD and then settles back to where it should be. All the other tube receivers I have owned did exactly the same - as soon as the tubes warmed up the S meter needle returned to normal.

But with the second R4 the S meter needle goes increasingly negative and then starts to rise and then settle when the tubes become operational. To me this is not normal.

So why the difference?

Vic

News, Celebrity Gossip, Videos and more -
http://www.tiscali.co.uk_____

[Non-text portions of this message have been removed]

2156. Re: [DrakeRadio] TR7 and R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 15:01:04 UTC
From: Garey Barrell
Topic: 2155 Message: 2156

Vic -

Depending upon just "which" two s/n units you are comparing, there are some differences. ALL R-4C S-Meters are a bridge circuit that compares the current drawn by the 1st and 3rd Mixers with the current drawn by the 50 kHz IF. So the warm-up characteristics of those tubes (among other things) determine how the meter responds at turn-on. The 50 kHz IF (V5) has always been a 6BA6, and this tube is NOT a controlled warm-up (11 seconds) type. The 1st Mixer (V2) was first a 6HS6 (controlled warm-up), and then a 6EJ7 (not controlled) in various s/n receivers. The 3rd Mixer (V4) was first a 6BA6 (NC), then a 6HS6 (C), and finally a 6EJ7 (NC). So you can see there's no "controlled" set of all three tubes, and since the current drawn is directly related to warm-up there's really no way to predict what the meter is going to do at turn-on!

Your second receiver is merely telling you that V5 is reaching operating temperature earlier than V2 and V4.

To tell you the truth, I never noticed differences! My only concern is that the S-Meter consistently settles at S-1 at turn-on, and is still at S-1 hours later.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Jim and all
>
> Thanks for info. Have temporarily fitted a cheap 12v computer fan - bit noisy but will do until I get something better.
>
> A further question re R4C. I have two of them and they both work well. One is a much earlier model than the other. On one of them when I switch on the S meter needle slowly rises to nearly FSD and then settles back to where it should be. All the other tube receivers I have owned did exactly the same - as soon as the tubes warmed up the S meter needle returned to normal.
>
> But with the second R4 the S meter needle goes increasingly negative and then starts to rise and then settle when the tubes become operational. To me this is not normal.
>
> So why the difference?
>

> Vic
>
>

2157. Re: [DrakeRadio] TR7 and R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-07 17:10:48 UTC
From: g4jss@tiscali.co.uk
Topic: 2155 Message: 2157

Hi Garey

Much appreciated. Wasn't overly concerned - just intrigued that one went pos. and the other neg.

73

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http://www.tiscali.co.uk_____

[Non-text portions of this message have been removed]

2158. For Sale: TR-6, RV-6, AC-4 and MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-12 05:48:42 UTC
From: Ron Patterson
Topic: 2158 Message: 2158

I am selling these items to raise funds for the Cal Poly Amateur Club. I thought I would offer them to the list before taking them to Ebay.

The TR-6 is sn 421 and comes with the rare 9-NB noise blanker. The radio is operational and has been bench tested. It is putting out 125 watts and the receive sensitivity is 0.2uv. The radio is in good overall condition. The case has been repainted with black semi-gloss. If it were mine, I would send it out to be powder coated. The price is $850 plus shipping.

The very rare RV-6 vfo is sn 036. It is in good operating condition. The case has the original finish and has some nicks and scratches. The chassis is very clean except for some areas of corrosion. The price is $800 plus shipping.

I also have an AC-4 for $80 and a MS-4 for $50 plus shipping.

Pictures are available for serious buyers upon request. If there are no takers, I will be putting them on Ebay this coming weekend.

73,

Ron W6FM

2159. Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-13 14:13:58 UTC
From: Victor Waddington
Topic: 2159 Message: 2159

Hi all
Been having a clear out (happens once every decade)and found a pair of items that I have no idea about - or where they came from!
I am assuming they are valves of some type.
For starters they are marked STC and type No. is 4X150A.
They have a very dumpy glass envelope with a metal surround and cooling fins also there is a centre keyed locating post and eight pins.
I have no literature on valves so back to you group, please.

Vic

2160. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-13 21:03:49 UTC
From: Jim Shorney
Topic: 2159 Message: 2160

On Wed, 13 May 2009 14:13:58 -0000, Victor Waddington wrote:

>I am assuming they are valves of some type.
>For starters they are marked STC and type No. is 4X150A.

I believe these are a precursor to the 4CX250 tetrode RF power amplifier tube. Same basic design, except rated at 150 Watts plate dissipation instead of 250 Watts due to the use of the glass insulator instead of ceramic. It's an external anode design, the cooling fins are the plate connection.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2161. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-14 06:18:00 UTC
From: g4jss@tiscali.co.uk
Topic: 2159 Message: 2161

Thanks Jim

To be honest never seen anything like them before and can't think of any way I could use them.

73

Vic
50% off Norton Security 2009 - http://www.tiscali.co.uk/security

---

[Non-text portions of this message have been removed]

2162. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-14 08:33:25 UTC
From: Richard Knoppow
Topic: 2159 Message: 2162

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 13, 2009 2:03 PM
Subject: Re: [DrakeRadio] Valves?

> On Wed, 13 May 2009 14:13:58 -0000, Victor Waddington
> wrote:
>
>>I am assuming they are valves of some type.
>>For starters they are marked STC and type No. is 4X150A.
>
> I believe these are a precursor to the 4CX250 tetrode RF
> power
> amplifier tube. Same basic design, except rated at 150
> Watts plate
> dissipation instead of 250 Watts due to the use of the
> glass insulator
> instead of ceramic. It's an external anode design, the
> cooling fins are
> the plate connection.
>
> 73
>
> -Jim
>

The 4X150A was, I believe, the first external anode air cooled small tetrode transmitting tube. The design originated at Eimac but similar tubes were built by several manuacturers. The tube had several variations, up to, I think, the 4X150D, There were others in the series up to several kilowatts dissipation. These tubes were all good to around 150mhz at full power. The ceramic base series followed and had a number of improvements. They were quite widely used in amateur and commercial equipment up to a few hundred watts and as drivers for high power stuff.
The series included the 4X250A/B, etc., and its more likely the 4CX250 was the replacement for this.
STC is Standard Telephones and Cables, a british company. I don't know if STC actually built tubes or only contracted for them. STC was the British distributor for Western Electric stuff for years.
I was pretty sure one of the Eimac or RCA transmitting tube handbooks was on the web but I couldn't find it my collection of downloaded stuff or by searching several sites

that have books. Its still worth a search.
BTW, I can't seem to find the orignal message in this
thread.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2163. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 00:12:23 UTC
From: Jim Shorney
Topic: 2159 Message: 2163

On Thu, 14 May 2009 01:33:25 -0700, Richard Knoppow wrote:

>I was pretty sure one of the Eimac or RCA transmitting
>tube handbooks was on the web but I couldn't find it my
>collection of downloaded stuff or by searching several sites
>that have books. Its still worth a search.

http://www.cpii.com/library.cfm/9

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2164. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 00:14:01 UTC
From: Jim Shorney
Topic: 2159 Message: 2164

On Thu, 14 May 2009 07:18:00 +0100 (GMT+01:00), g4jss@...
wrote:

>Thanks Jim
>
>To be honest never seen anything like them before and can't think of any way I could use them.

Well, don't throw them in the rubbish bin. Even if non-working, they
are good geek bait. I used to have several, and wish I had kept one for
my display.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2165. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 00:25:37 UTC
From: Jim Shorney
Topic: 2159 Message: 2165

On Thu, 14 May 2009 19:12:23 -0500, Jim Shorney wrote:

>On Thu, 14 May 2009 01:33:25 -0700, Richard Knoppow wrote:
>
>http://www.cpii.com/library.cfm/9

Some good stuff:

http://www.g8wrb.org/complete-list.php

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2166. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 00:48:02 UTC
From: Jim Shorney
Topic: 2159 Message: 2166

On Thu, 14 May 2009 19:25:37 -0500, Jim Shorney wrote:

>
>Some good stuff:

More here:

http://w5jgv.com/amateur_radio.htm

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2167. TR-72 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 01:50:35 UTC
From: KO1H
Topic: 2167 Message: 2167

Hi All I am looking for a copy (PDF is fine) of the manual for the TR-72 2m radio. Please let me know what you may have or a Source>

73 de John ko1h

[Non-text portions of this message have been removed]

2168. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 06:27:03 UTC
From: g4jss@tiscali.co.uk
Topic: 2159 Message: 2168

Jim/Richard

Thanks for info - very much appreciated.

If either of you want one I'll send them free of charge - I have no use for them.

Reply to g4jss@...

73

Vic
50% off Norton Security 2009 - http://www.tiscali.co.uk/security
---

[Non-text portions of this message have been removed]

2169. Re: [DrakeRadio] Valves?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 06:41:52 UTC
From: Richard Knoppow
Topic: 2159 Message: 2169

----- Original Message -----
From: <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 14, 2009 11:27 PM
Subject: Re: [DrakeRadio] Valves?

>
> Jim/Richard
>
> Thanks for info - very much appreciated.
>
> If either of you want one I'll send them free of charge -
> I have no use for them.
>
> Reply to g4jss@...
>
> 73
>
> Vic
While I wouldn't mind having one of them I think the
shipping from the UK to California would be excessive. But I
thank you sincerely for the thought.

--
Richard Knoppow
Los Angeles, CA, USA
dickburk@...

2170. How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 12:36:34 UTC
From: russellhulett
Topic: 2170 Message: 2170

I'm new to Drake rigs and this group, having recently bought an R-4 and T-4XB. The tuning scale adjustment on the R-4 is too loose to hold setting. I've searched through all the mailing lists, web forums, and the manual without success for how to tighten this up. What is the procedure to tighten the adjuster?

73, Curt KB5JO

2171. Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 14:51:52 UTC
From: Garey Barrell
Topic: 2170 Message: 2171

Curt -

Loosen the setscrew on the MAIN TUNING knob and remove it, along with the metal skirt behind it. There should be a short length of rubber or plastic tubing around the tuning shaft. Depending upon the condition of this tubing, (unless it is missing!,) it may either need to be replaced or just have the ends scuffed up with sandpaper. The original is 3/8" id by 5/8" od, by 1/2" long. Various types of tubing will work, from soft amber colored surgical tubing, to clear polyethelene, to automotive heater hose, to ...

IF the tubing is there and is in reasonable condition, often all that is needed is to replace the skirt and knob, and press in on the knob (to "compress" the skirt against the outer end of the tubing,) and tighten the setscrew.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> I'm new to Drake rigs and this group, having recently bought an R-4 and T-4XB. The tuning scale adjustment on the R-4 is too loose to hold setting. I've searched through all the mailing lists, web forums, and the manual without success for how to tighten this up. What is the procedure to tighten the adjuster?
>
> 73, Curt KB5JO
>
>
>

2172. Re: TR-72 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 16:16:50 UTC
From: Al Scanandoah
Topic: 2167 Message: 2172

John

I believe the TR-72 is close, if not identical to, the Kenwood TR7200. I got a number of hits when searching by the Kenwood model number.

73 - Al, K2ZN

--- In DrakeRadio@yahoogroups.com, "KO1H" <ko1h@...> wrote:
>
> Hi All I am looking for a copy (PDF is fine) of the manual for the TR-72 2m radio. Please let me know what you may have or a Source>
>
> 73 de John ko1h
>
> [Non-text portions of this message have been removed]
>

2173. Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 18:24:27 UTC
From: Richard Knoppow
Topic: 2170 Message: 2173

----- Original Message -----
From: "russellhulett" <rhulett1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, May 15, 2009 5:36 AM
Subject: [DrakeRadio] How to Tighten R-4 Tuning Scale
Adjuster

> I'm new to Drake rigs and this group, having recently
> bought an R-4 and T-4XB. The tuning scale adjustment on
> the R-4 is too loose to hold setting. I've searched
> through all the mailing lists, web forums, and the manual
> without success for how to tighten this up. What is the
> procedure to tighten the adjuster?
>
> 73, Curt KB5JO
>
Do you mean the adjustble pointer on the main scale or
the adjustable skirt on the knob?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2174. Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 18:49:36 UTC
From: LEE BAHR
Topic: 2170 Message: 2174

Take of the knob and you will see a rubber tension washer. (usually light grey). Buy some new rubber tubing and cut it to size and install. The old one is probably dried out.

Lee, w0vt

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Friday, May 15, 2009 1:24 PM
Subject: Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

----- Original Message -----
From: "russellhulett" <rhulett1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, May 15, 2009 5:36 AM
Subject: [DrakeRadio] How to Tighten R-4 Tuning Scale
Adjuster

> I'm new to Drake rigs and this group, having recently
> bought an R-4 and T-4XB. The tuning scale adjustment on
> the R-4 is too loose to hold setting. I've searched
> through all the mailing lists, web forums, and the manual
> without success for how to tighten this up. What is the
> procedure to tighten the adjuster?
>
> 73, Curt KB5JO
>
Do you mean the adjustble pointer on the main scale or
the adjustable skirt on the knob?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

2175. Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 19:00:48 UTC
From: K5vse-Mike
Topic: 2170 Message: 2175

I went to the local auto parts store, and bought 2 feet of 3/8" fuel line.
Over the years, I've repaired dozens of VFO/PTO in the Drake line. Works
forever as far as I can tell.

73 to all,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2176. Re: [DrakeRadio] How to Tighten R-4 Tuning Scale Adjuster

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-15 19:12:12 UTC
From: LEE BAHR
Topic: 2170 Message: 2176

When you take off the knob you will see the grey rubber compression ring. Some replace it with hose or tubing found at auto parts stores.

Lee, w0vt

[Non-text portions of this message have been removed]

2177. Drake 2-C VFO Knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-16 01:17:42 UTC
From: Mark Junk
Topic: 2177 Message: 2177

Looking for VFO knob for Drake 2-C...73...KK9U.

2178. Re: [DrakeRadio] TR-72 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-16 14:56:59 UTC
From: Bill Frost
Topic: 2167 Message: 2178

Hello John,

If you still need the TR-72 instruction manual, I have an original in excellent condition. $25.00 shipped USPS.

73, Bill

--- On Thu, 5/14/09, KO1H <ko1h@...> wrote:

> From: KO1H <ko1h@...>
> Subject: [DrakeRadio] TR-72 Manual
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, May 14, 2009, 9:50 PM
> Hi All I am looking for a copy
> (PDF is fine) of the manual for the TR-72 2m
> radio. Please let me know what you may have or a
> Source>
>
> 73 de John ko1h
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

2180. Re: TR-3 mike plug

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-17 12:33:59 UTC
From: angrc109
Topic: 2088 Message: 2180

--- In DrakeRadio@yahoogroups.com, "Fred" <radiomanl@...> wrote:
>
> anyone know of a source for these or maybe have an extra one .
> tnx.
> andrew kd5pnt
>

I have one I can part with. Email me with your snail mail address and I'll send it.

2181. Re: TR-3 mike plug

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-17 12:38:53 UTC
From: angrc109
Topic: 2088 Message: 2181

--- In DrakeRadio@yahoogroups.com, "angrc109" <angrc109@...> wrote:
>
> --- In DrakeRadio@yahoogroups.com, "Fred" <radiomanl@> wrote:
> >
> > anyone know of a source for these or maybe have an extra one .
> > tnx.
> > andrew kd5pnt
> >
>
>
> I have one I can part with. Email me with your snail mail address and I'll send it.
>
Sorry, if your address is available here....I just joined the group yesterday and not sure how to use the resources.

KB0YGO Roger

2182. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-17 20:54:48 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2182

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2183. WTB; R-4 Original Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-18 16:28:28 UTC
From: russellhulett
Topic: 2183 Message: 2183

I'm looking for an original (not a copy) R-4 manual with schematic.

Curt KB5JO

2184. Re: TR-7 CW Drift: Resolved

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-21 00:39:04 UTC
From: Al Scanandoah
Topic: 2080 Message: 2184

Just an FYI in case anyone else experiences this peculiar behavior.

The problem was a failed switch section in U1001 on the PBT/Reference board. When in CW TX, there was no voltage being applied to varactor CR1001, so the capacitance was simply drifting about.

Popped in a new 4066 bilateral switch, and life is good.

Now to see if I can implement a QSK scheme...

73 - Al, K2ZN

--- In DrakeRadio@yahoogroups.com, "Al Scanandoah" <k2zn@...> wrote:
>
> Hi
>
> When I key down in CW, my TX frequency begins to slowly drift upward. I've got a spare 2nd IF/Audio board - swapping that in didn't make any difference. The 10v supply seems stable.
>
> This happens even when I'm running at about 10 watts, so I don't think it's a thermal issue.
>
> Here's the kicker - AM an SSB appear to be fine.
>
> Any ideas?
>
> 73 - Al, K2ZN
>

2185. Re: [DrakeRadio] Re: TR-7 CW Drift: Resolved

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-21 02:12:19 UTC
From: Garey Barrell
Topic: 2080 Message: 2185

Al -

I don't recall seeing your original post here, if you did...??

Anyway, yes, the 4016 ICs are somewhat failure prone. U1, the one that handles the RIT switching, causes similar problems. I always install a socket when I replace any of them. They sometimes fail open, and other times just get noisy.

Good catch!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Al Scanandoah wrote:
> Just an FYI in case anyone else experiences this peculiar behavior.
>
> The problem was a failed switch section in U1001 on the PBT/Reference board. When in CW TX, there was no voltage being applied to varactor CR1001, so the capacitance was simply drifting about.
>
> Popped in a new 4066 bilateral switch, and life is good.
>
> Now to see if I can implement a QSK scheme...
>
> 73 - Al, K2ZN
>
> --- In DrakeRadio@yahoogroups.com, "Al Scanandoah" <k2zn@...> wrote:
>
>> Hi
>>
>> When I key down in CW, my TX frequency begins to slowly drift upward. I've got a spare 2nd IF/Audio board - swapping that in didn't make any difference. The 10v supply seems stable.
>>
>> This happens even when I'm running at about 10 watts, so I don't think it's a thermal issue.
>>
>> Here's the kicker - AM an SSB appear to be fine.
>>
>> Any ideas?
>>
>> 73 - Al, K2ZN

>>
>>
>

2186. TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-21 12:41:52 UTC
From: tjb813
Topic: 2186 Message: 2186

I purchased a basket case TR3 last summer. Very poor shape. I've had a blast restoring it. It receives and transmits fine. But, it has one re-occuring problem that has me stumped. It will at random jump 150Hz in frequency, then stay there for a minute or so, then jump back to the original frequency. It can go for an hour without doing it, or it will do it 20 times in one hour. No patttern to it. It happens on all bands. Since it happens on 20 meters it is either the VFO or the 9MHz BFO (since the hetrodyne oscillator is not used on 20). I put a counter on the 9MHz bfo and it stays very stable. I rebuilt the VFO and it tunes silky smooth. Replaced the 6AU6 VFO tube with known good one. Checked the 150V regulator, replaced it. No voltage jump. Re-did the grounds around the 6AU6 socket. Still jumps frequency. I checked the alignment of the VFO gears and mechanics.

Could it be a cap or resistor? Any ideas?

Thanks for reading this long note.

KD8CN - Tim

2187. TR4C out of storage & into XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-22 16:20:48 UTC
From: Patricia Turpin
Topic: 2187 Message: 2187

Hi all,

I just unpacked my old Drake TR4C after storage for about 15 years. When I turn it on, it is in transmit. With the switch in XCW, and all drive knobs at minimum and into a dummy load, I can hear a carrier on my other HF rig. If I set the Drake for 7.250, I get the carrier at 7.250 (or there abouts). If the switch is in either SSB settings, it is still in transmit. I will probably open the case this weekend and 'thump' a tube or two! I have turned the VOX & antiVOX just a bit and have put a straight key into the KEY connector - and pulled it out.

Have any of you experienced this happening on any of the 4 series transmitters or transceivers? Just looking for a place to start.

In case you need to know (when you see my name), I have a scope, volt meter, and frequency counter but no frequency generator (looking for one on ebay). I've been away from Ham Radio a while and always liked the Drake for it's punch and clean audio.

Patricia AB4CT
Licensed in 1962
Extra Since 1987

2188. Re: [DrakeRadio] TR4C out of storage & into XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-23 03:57:27 UTC
From: Garey Barrell
Topic: 2187 Message: 2188

Hi Patricia -

The "X-CW" position of the MODE switch is the TUNE function, and keys the transmitter. SSB is the "Standby" position, and should put you into receive mode.

The first check is to see if you have any "idle" plate current, which should be 100 mA when the transmitter is keyed with no modulation and/or if a code key is plugged in and "open". Turning the XMTR GAIN control full CCW should give the same result.

If you are using the AC-4 Power Supply, the idle BIAS is set with the control on the power supply chassis.

With the SIDEBAND switch in X, switching from SSB to X-CW should result in an audible click from the T/R relay, and result in 100 mA plate current. Advancing the XMTR GAIN and peaking the RF TUNE should increase the plate current which should then be dipped with the PLATE control. Switching back to SSB should then drop the plate current to 0 and activate the receiver.

Excuse my incoherence, but I've been on the road all day. Hopefully I haven't confused you too much.

73, Garey - K4OAH
Louisville, KY

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Patricia Turpin wrote:
> Hi all,
>
> I just unpacked my old Drake TR4C after storage for about 15 years. When I turn it on, it is in transmit. With the switch in XCW, and all drive knobs at minimum and into a dummy load, I can hear a carrier on my other HF rig. If I set the Drake for 7.250, I get the carrier at 7.250 (or there abouts). If the switch is in either SSB settings, it is still in transmit. I will probably open the case this weekend and 'thump' a tube or two! I have turned the VOX & antiVOX just a bit and have put a straight key into the KEY connector - and pulled it out.
>
> Have any of you experienced this happening on any of the 4 series transmitters or transceivers? Just looking for a place to start.
>
> In case you need to know (when you see my name), I have a scope, volt meter, and frequency counter but no frequency generator (looking for one on ebay). I've been away from Ham Radio a while and always liked the Drake for it's punch and clean audio.

>
> Patricia AB4CT
> Licensed in 1962
> Extra Since 1987
>

2189. Re: [DrakeRadio] TR4C out of storage & into XMIT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-23 06:36:36 UTC
From: Forrest Plumstead
Topic: 2187 Message: 2189

On Fri, May 22, 2009 at 10:57 PM, Garey Barrell <k4oah@...>wrote:

>
>
> Hi Patricia -
>
> The "X-CW" position of the MODE switch is the TUNE function, and keys
> the transmitter. SSB is the "Standby" position, and should put you into
> receive mode.
>
> The first check is to see if you have any "idle" plate current, which
> should be 100 mA when the transmitter is keyed with no modulation and/or
> if a code key is plugged in and "open". Turning the XMTR GAIN control
> full CCW should give the same result.
>
> If you are using the AC-4 Power Supply, the idle BIAS is set with the
> control on the power supply chassis.
>
> With the SIDEBAND switch in X, switching from SSB to X-CW should result
> in an audible click from the T/R relay, and result in 100 mA plate
> current. Advancing the XMTR GAIN and peaking the RF TUNE should
> increase the plate current which should then be dipped with the PLATE
> control. Switching back to SSB should then drop the plate current to 0
> and activate the receiver.
>
> Excuse my incoherence, but I've been on the road all day. Hopefully I
> haven't confused you too much.
>
> 73, Garey - K4OAH
> Louisville, KY
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Patricia Turpin wrote:
> > Hi all,
> >
> > I just unpacked my old Drake TR4C after storage for about 15 years. When
> I turn it on, it is in transmit. With the switch in XCW, and all drive knobs
> at minimum and into a dummy load, I can hear a carrier on my other HF rig.
> If I set the Drake for 7.250, I get the carrier at 7.250 (or there abouts).
> If the switch is in either SSB settings, it is still in transmit. I will
> probably open the case this weekend and 'thump' a tube or two! I have turned
> the VOX & antiVOX just a bit and have put a straight key into the KEY

> connector - and pulled it out.
> >
> > Have any of you experienced this happening on any of the 4 series
> transmitters or transceivers? Just looking for a place to start.
> >
> > In case you need to know (when you see my name), I have a scope, volt
> meter, and frequency counter but no frequency generator (looking for one on
> ebay). I've been away from Ham Radio a while and always liked the Drake for
> it's punch and clean audio.
> >
> > Patricia AB4CT
> > Licensed in 1962
> > Extra Since 1987
> >
>
>
>

Hi Pat Try plugging a key in.

--
Forrest Plumstead fplum1@...
PLUMSTEAD-L List master
http://lists.rootsweb.com/index/surname/p/plumstead.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Military Kool Lynx: http://geocities.com/fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
Photos: http://myspace.com/fplum7755

[Non-text portions of this message have been removed]

2190. Need some informations about Drake SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-24 05:04:12 UTC
From: Hans-Joachim Empel
Topic: 2190 Message: 2190

Hello Folks ,

im the new Owner of an DRAKE SPR - 4 Serial Number 327

its a great receiver but i have some questions about the handling and setup the XTALs of the RX.
hopefully somebody can give me some ideas for the handling´and setup

1 : what kind of position on the Crystal Selector Switch the Preselector and the Range Switch i need to receive the Frequency from 150kHz to 500kHz ????

2: in the Receiver there are all 23 Cristals installed like : first socket 11.59 MHz
second socket 12.09 MHz
third socket 12.59MHz and so on.
is this correct ore is there some role to set the Xtals in some special setup for the Cristals in the sockets ????
There is no good Description inside the SPR - 4 Manual for aswering Question 1 and 2 maybe some OM has experiance in setup the cristals and can give me some Help.

Following Xtals are available in my RX : 11.59 ,12.09 , 12.59 , 13.09 , 14.59 , 16.59 , 17.09 , 18.09 , 19.59 , 20.59 , 22.09 , 22.59 , 24.09 ,25.09 , 26.09 , 28.59 , 29.09 , 32.59 , 36.59 , 38.09 , 39.09 , 39.59 , 40.59 MHz
XTAL Socket No : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Specially Questions No. 1and 2. gives me a lot of gray hair.

I own also a DRAKE R8A and a DRAKE R8E with a VHF Converter , thats are great RX - machines , but the SPR - 4 is also a good RX - machine.
I am verry impressed about the SPR - 4 , its hot like a gun , if you receive signals on shortwave.

Hopfully somebody can help me
all idears are welcome

my email is hajoempel@...
ore DL2388RB@...

Sorry about my poor english

regards from Germany
Joachim

[Non-text portions of this message have been removed]

2191. Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-26 11:51:04 UTC
From: tjb813
Topic: 2186 Message: 2191

Just want to thank everyone for their great helpful replies!

Just to let everyone know, it was the ....

--- In DrakeRadio@yahoogroups.com, "tjb813" <tjb813@...> wrote:
>
>
> I purchased a basket case TR3 last summer. Very poor shape. I've had a blast restoring it. It receives and transmits fine. But, it has one re-occuring problem that has me stumped. It will at random jump 150Hz in frequency, then stay there for a minute or so, then jump back to the original frequency. It can go for an hour without doing it, or it will do it 20 times in one hour. No patttern to it. It happens on all bands. Since it happens on 20 meters it is either the VFO or the 9MHz BFO (since the hetrodyne oscillator is not used on 20). I put a counter on the 9MHz bfo and it stays very stable. I rebuilt the VFO and it tunes silky smooth. Replaced the 6AU6 VFO tube with known good one. Checked the 150V regulator, replaced it. No voltage jump. Re-did the grounds around the 6AU6 socket. Still jumps frequency. I checked the alignment of the VFO gears and mechanics.
>
> Could it be a cap or resistor? Any ideas?
>
> Thanks for reading this long note.
>
> KD8CN - Tim
>

2192. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-26 15:02:34 UTC
From: Sprint
Topic: 2186 Message: 2192

"the................." WHAT??!!! <<GRIN>>

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "tjb813" <tjb813@...>
Subject: [DrakeRadio] Re: TR3 Has frequency jump

> Just want to thank everyone for their great helpful replies!
>
> Just to let everyone know, it was the ....

2193. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-26 22:01:20 UTC
From: Richard Knoppow
Topic: 2186 Message: 2193

----- Original Message -----
From: "Sprint" <sprint@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, May 26, 2009 8:02 AM
Subject: Re: [DrakeRadio] Re: TR3 Has frequency jump

> "the................." WHAT??!!! <<GRIN>>
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
It just jumped...

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2194. TR-4 noise blanker alignment and misc q's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-27 04:04:30 UTC
From: Chris Farley
Topic: 2194 Message: 2194

Hi all, hope everyone had an enjoyable Memorial Day weekend!

I have a TR-4 S/N 30547 that has the noise blanker, but it must be a fairly early one as it is not the plug-in type- it is wired directly through a hole the chassis near the front. My question is this- The adjustments in every manual I have come across is for the plug-in type. There are several differences, most of which I have figured out. There are a couple that I am having trouble with though-
There is a trimmer on a little board underneath the chassis that straddles the Band switch, and I can not seem to do the "B" adjustment in the manual, which wants the blanker off, measuring voltage between terminal 8 (terminal 4 on the schematic I have) and ground, while peaking R-24 for positive voltage. Problem is, with the blanker turned off, there is no voltage present. With the blanker on, R24 seems to have no effect on voltage whatsoever.

Another problem I'm having is the neutralization.. It keeps changing! Is there a known flakiness somewhere in these that I'm not finding, or is there a sagging grid or something in one of my PA tubes? It's not consistant or drifting with warm-up or anything- it's just different each time I turn it on and tune up- dipped plate is never max pwr out.

Final issue regards Injection coupler alignment. On the 10m adjustments, I am unable to see a peak on one of the adjustments. I *think* I had this same problem with my other TR-4 too. Is there a better way to perform this alignment? I have a scope and sig gen, but no "good" frequency counter. My absolute last resort would be sending it off to be aligned- I wouldn't learn anything that way!

Any ideas? Lots of questions here, I probably should have split it up and asked one at a time after figuring it out! The blanker does seem to work pretty well as-is and the radio performs reasonably, but I'm trying to go through this thing once and for all so I can finally put the covers back on and put one in the car!

Thanks!!
Chris KC9IEQ

[Non-text portions of this message have been removed]

2195. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-27 04:57:18 UTC
From: Jim Shorney
Topic: 2186 Message: 2195

On Tue, 26 May 2009 11:51:04 -0000, tjb813 wrote:

>
>
>Just want to thank everyone for their great helpful replies!
>
>Just to let everyone know, it was the ....

Actually, you might get a better response if you posted the question to
the Drakelist reflector.

Offhand, I would think it would be .... ground braid modification.

Whatever.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2196. R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-27 16:16:44 UTC
From: Victor Waddington
Topic: 264 Message: 2196

Hello all
Bit of a problem with my Rx. Keep getting weird noises. Difficult to describe. The nearest I can get is if you walk into a large concert room and someone is on a mike and due to feedback it starts to howl/screech. At first I thought it was one of my neighbours on a CB or a passing taxi because every now and again I could hear distorted speech - cross modulation? But I don't get it on my other Rx's.
Any ideas, please?
Vic

2197. Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 16:04:04 UTC
From: Garey Barrell
Topic: 2194 Message: 2197

Chris -

The small board is the "NBK" board, and is used to match the NB to the older "soup can" filter. A TR-4 with your s/n should have the two blue filters with the external SIDEBAND switch, and should NOT have the NBK board installed. There should be 470 ohm resistors across T6 and T13, NOT 2.2k ohm resistors.

The R24 adjustment is done with the Blanker ON, but the Calibrator turned OFF. The adjustment is VERY sharp, and is easy to pass if you adjust too rapidly.

Changing neutralization is typically associated with 'off-brand' final tubes. Anything other than Sylvania, Zenith, RCA or GE brands are subject to all manner of "possible" problems. There are other possibilities, but until you have a pair of the "known good" tubes, of the same manufacturer, you're beating your head against the wall! :-)

The 10M Injection coupler alignment is pretty broad, and doesn't have a sharp "peak".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chris Farley wrote:
> Hi all, hope everyone had an enjoyable Memorial Day weekend!
>
> I have a TR-4 S/N 30547 that has the noise blanker, but it must be a fairly early one as it is not the plug-in type- it is wired directly through a hole the chassis near the front. My question is this- The adjustments in every manual I have come across is for the plug-in type. There are several differences, most of which I have figured out. There are a couple that I am having trouble with though-
> There is a trimmer on a little board underneath the chassis that straddles the Band switch, and I can not seem to do the "B" adjustment in the manual, which wants the blanker off, measuring voltage between terminal 8 (terminal 4 on the schematic I have) and ground, while peaking R-24 for positive voltage. Problem is, with the blanker turned off, there is no voltage present. With the blanker on, R24 seems to have no effect on voltage whatsoever.
>
> Another problem I'm having is the neutralization.. It keeps changing! Is there a known flakiness somewhere in these that I'm not finding, or is there a sagging grid or something in one of my PA tubes? It's not consistant or drifting with warm-up or anything- it's just different each time I turn it on and tune up- dipped plate is never max pwr out.
>
> Final issue regards Injection coupler alignment. On the 10m adjustments, I am unable to

see a peak on one of the adjustments. I *think* I had this same problem with my other TR-4 too. Is there a better way to perform this alignment? I have a scope and sig gen, but no "good" frequency counter. My absolute last resort would be sending it off to be aligned- I wouldn't learn anything that way!
>
> Any ideas? Lots of questions here, I probably should have split it up and asked one at a time after figuring it out! The blanker does seem to work pretty well as-is and the radio performs reasonably, but I'm trying to go through this thing once and for all so I can finally put the covers back on and put one in the car!
>
> Thanks!!
> Chris KC9IEQ
>
>

2198. Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 17:57:31 UTC
From: Chris Farley
Topic: 2194 Message: 2198

Hi Garey,

Thanks for all the information! I'll re-attempt the R24 adjustment, (perhaps with a different analog meter with a quicker movement), and I'll just assume 10m is good enough as-is. The calibrator signal was weaker than expected up there, so I just assumed there was a better way to perform that alignment, given the trouble I had. Fair enough!

I will check for the 470 ohm resistors across T6 and T13 instead of the 2.2k's. I can't picture them or what their purpose is w/o a schematic handy, is it somehow related to the filters?

Regarding the "NBK" board- Unless I have given a misleading description, it certainly seems to be there. Yes, the radio does have the blue filters, not the earlier separates or the soupcan. I didn't even think a NB was available when they were still using the soupcan filter!
I'm at work now, but offhand the board is about 1 1/2" square, has a metal screw/ceramic type trimmer cap, a toroid coil/transformer, possibly some misc resistors and whatnot, and the band switch shaft goes through a hole a bit offcenter in the board. There are a few pieces of thin coax (RG-174/U size stuff) going to a tube(s), and the NB board. Given all this, what procedure would I use to adjust this trimmer, or should I leave well enough alone? I can only assume that SOMEthing has drifted or changed over all these years, resulting in some sort of adjustment being needed.

On the PA tubes, I am well aware about branding and all that fun stuff, and they were tested as good the last time I had them out. Can't say for sure if they are the same date code, plate structure, or stamped brand, but they are definitely of Sylvania manufacture. I'm predijust against RCA's in RF PA's, and GE's in general. I could try swapping them out, but I don't have any "good" spares at the moment.

Does this help at all, or only present more questions??

Regards,
Chris

--- On Thu, 5/28/09, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's
To: DrakeRadio@yahoogroups.com
Date: Thursday, May 28, 2009, 11:04 AM

Chris -

The small board is the "NBK" board, and is used to match the NB to the

older "soup can" filter. A TR-4 with your s/n should have the two blue

filters with the external SIDEBAND switch, and should NOT have the NBK

board installed. There should be 470 ohm resistors across T6 and T13,

NOT 2.2k ohm resistors.

The R24 adjustment is done with the Blanker ON, but the Calibrator

turned OFF. The adjustment is VERY sharp, and is easy to pass if you

adjust too rapidly.

Changing neutralization is typically associated with 'off-brand' final

tubes. Anything other than Sylvania, Zenith, RCA or GE brands are

subject to all manner of "possible" problems. There are other

possibilities, but until you have a pair of the "known good" tubes, of

the same manufacturer, you're beating your head against the wall! :-)

The 10M Injection coupler alignment is pretty broad, and doesn't have a

sharp "peak".

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

<www.k4oah.com>

Chris Farley wrote:

> Hi all, hope everyone had an enjoyable Memorial Day weekend!

>

> I have a TR-4 S/N 30547 that has the noise blanker, but it must be a fairly early one as it is not the plug-in type- it is wired directly through a hole the chassis near the front. My question is this- The adjustments in every manual I have come across is for the plug-in type. There are several differences, most of which I have figured out. There are a couple that I am having trouble with though-

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>

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> Any ideas? Lots of questions here, I probably should have split it up and asked one at a time after figuring it out! The blanker does seem to work pretty well as-is and the radio performs reasonably, but I'm trying to go through this thing once and for all so I can finally put the covers back on and put one in the car!

>

> Thanks!!

> Chris KC9IEQ

>

>

[Non-text portions of this message have been removed]

2199. Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 18:53:43 UTC
From: Garey Barrell
Topic: 2194 Message: 2199

Chris -

OK. Well if you were trying to adjust R24 with a DMM ... :-)

Whoever installed your NB did it wrong. The NBK board is NOT required and should be removed. The resistors mentioned before are to terminate the filters and are most likely the incorrect 2.2k rather than the 470 ohms they should be for the separate filters. The trimmer on the NBK board was just peaked on the calibrator signal.

The NB-34 Blanker was designed for the TR-4 with the 470 ohm filters To allow it to be retrofitted into the TR-3 and early TR-4s which used the 'soupcan' and 'one-box' filters, the NBK board was designed to compensate for the higher impedance of those filters, 2.2k ohms. Later TR-4s used the same blanker without the NBK board because it was not required with 470 ohm filter impedance.

I think I have a "notes" sheet on my TR-4 CD that addresses all this.

I agree on the RCA and GE tubes, but they DO work consistently. The GEs seem to drop off in output faster than the other three, but not significantly. If in fact you DO have two tubes of the same manufacturer, perhaps an element support has broken or some other anomaly. The other potential trouble spot is the small disc ceramic capacitor connected across the neutralization cap. It's 12.5 pF, 2000V, NP0.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Chris Farley wrote:
> Hi Garey,
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> Regards,
> Chris
>
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>
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> To: DrakeRadio@yahoogroups.com
> Date: Thursday, May 28, 2009, 11:04 AM
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>
>
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>
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>>

>

2200. Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 20:16:26 UTC
From: tjb813
Topic: 2186 Message: 2200

Don't worry. I won't post here anymore and bother you. BTW is wasn't a grounding problem.

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 26 May 2009 11:51:04 -0000, tjb813 wrote:
>
> > >
> > >
> > >Just want to thank everyone for their great helpful replies!
> > >
> > >Just to let everyone know, it was the ....
> >
> >
> > Actually, you might get a better response if you posted the question to
> > the Drakelist reflector.
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> > Offhand, I would think it would be .... ground braid modification.
> >
> > Whatever.
> >
> > 73
> >
> > -Jim
> >
> >
> > --
> > Ham Radio NU0C
> > Lincoln, Nebraska, U.S.S.A.
> > TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!
> >
> > "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."
> >
> > HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> > http://radiojim.exofire.net
> > http://incolor.inetnebr.com/jshorney
> > http://www.nebraskaghosts.org
> >

2201. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 21:20:25 UTC
From: Jim Shorney
Topic: 2186 Message: 2201

On Thu, 28 May 2009 20:16:26 -0000, tjb813 wrote:

>
>Don't worry. I won't post here anymore and bother you. BTW is wasn't a grounding problem.

You're getting the wrong idea, it's no bother to post here. It's jsut
that Drakelist gets a lot more traffic, and most of the gurus seem to
hang out there.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2202. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 21:51:51 UTC
From: Richard Knoppow
Topic: 2186 Message: 2202

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 28, 2009 2:20 PM
Subject: Re: [DrakeRadio] Re: TR3 Has frequency jump

> On Thu, 28 May 2009 20:16:26 -0000, tjb813 wrote:
>
>>
>>Don't worry. I won't post here anymore and bother you. BTW
>>is wasn't a grounding problem.
>
>
> You're getting the wrong idea, it's no bother to post
> here. It's jsut
> that Drakelist gets a lot more traffic, and most of the
> gurus seem to
> hang out there.
>
> 73
>
> -Jim
>

Where is this other list?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2203. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 22:09:10 UTC
From: Jim Shorney
Topic: 2186 Message: 2203

On Thu, 28 May 2009 14:51:51 -0700, Richard Knoppow wrote:

>Where is this other list?

It's actually very easy to find. In Firefox, you can just type the word "drakelist" into your URL box, and it will magically find the home page. Google will also find it. Now that I've typed all that, here is the URL:

http://www.zerobeat.net/drakelist/

Follow the instructions near the bottom to join the Drakelist mailing list. You can also join the Drakelist web-based forum, but the mailing list has been around longer and has more members. The ARE two seperate entities, a post to one does not go to the other. I'm on both, as are a lot of the other die-hard Drakesters. Both have searchable archives, and I've found lots of good nuggets in the archives.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2204. Re: [DrakeRadio] Re: TR3 Has frequency jump

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-28 22:15:40 UTC
From: Richard Knoppow
Topic: 2186 Message: 2204

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 28, 2009 3:09 PM
Subject: Re: [DrakeRadio] Re: TR3 Has frequency jump

> On Thu, 28 May 2009 14:51:51 -0700, Richard Knoppow wrote:
>
>>Where is this other list?
>
>
> It's actually very easy to find. In Firefox, you can just
> type the word
> "drakelist" into your URL box, and it will magically find
> the home
> page. Google will also find it. Now that I've typed all
> that, here is
> the URL:
>
> http://www.zerobeat.net/drakelist/
>
> Follow the instructions near the bottom to join the
> Drakelist mailing
> list. You can also join the Drakelist web-based forum, but
> the mailing
> list has been around longer and has more members. The ARE
> two seperate
> entities, a post to one does not go to the other. I'm on
> both, as are a
> lot of the other die-hard Drakesters. Both have searchable
> archives,
> and I've found lots of good nuggets in the archives.
>
> 73
>
> -Jim
>
I did find this through Google but buried among what
looked like other lists. You recommendation is enough for me
to at least give it a try.
Thanks for the quick response.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

2205. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-05-31 18:03:52 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2205

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2206. mods to R 4.C & what happened to the Drake TR 5 ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-01 19:23:14 UTC
From: mytherpots
Topic: 2206 Message: 2206

Hi, I need to dust off a couple of R4 C rx's, and want to know what sort of mods have been brought out over the years? apart from fitting Sherwood 1st and 2nd IF filters, psu and some sort of Guf 1??? can't remember what that one was !

The other thing I've only ever heard/seen one Tr5 hf rig on the air and that was because it belonged to a local guy, I remember it had QSK.
So are these still alive and kicking ??

73 de ian g3yrq...sorry for the e.mail address it belonged to my xyl.

2207. Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-02 03:46:38 UTC
From: vacuuminded2@yahoo.com
Topic: 2194 Message: 2207

Hi Garey,

Finally had a chance to look at this thing again tonight- Thanks for the info sheet!

First off, the resistors across T-6 and T-13 are indeed 470 ohm, and not 2.2K. At least THAT is right!

Obviously you know a lot more about these TR-4's than I, but I really think this NB was factory installed. I see no evidence pointing towards an "in the field" installation, or even a trip back to Drake. The NB wiring is tied/laced with the same exact wire with a red and green tracer as the rest of the factory wiring, the faceplate has the blanker markings on it (as opposed to just a hole having been drilled), and every solder joint looks perfect, with absolutely not hint of being re-worked. To top it off, the little terminal strip and grounding lug on the side of the chassis with the two filter caps for the NB board are attached with the exact same rivets used on the RCVR/TCVR switch. My non-NB equipped TR-4 (S/N 29034 versus this S/N 30547) does not have any of this, not even the holes in the chassis where the strip and grounding lug would go).
I don't know when the first noise blankers were available, but is it possible this is just an early example before the plug-in ones were used?

In either case, is there really enough loss through the NBK board that it needs to be removed? The blanker does seem to function fairly well, after all. Perhaps if it was indeed factory installed, there could be a difference from the retro-fitted ones?

Haven't messed with the neutralization problem yet. If it is still screwy with different tubes, I'll swap that cap you mentioned.

When will it end!
Regards,
Chris KC9IEQ

--- On Thu, 5/28/09, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's
To: DrakeRadio@yahoogroups.com
Date: Thursday, May 28, 2009, 1:53 PM

Chris -

OK. Well if you were trying to adjust R24 with a DMM ... :-)

Whoever installed your NB did it wrong. The NBK board is NOT required

and should be removed. The resistors mentioned before are to terminate

the filters and are most likely the incorrect 2.2k rather than the 470

ohms they should be for the separate filters. The trimmer on the NBK board was just peaked on the calibrator signal.

The NB-34 Blanker was designed for the TR-4 with the 470 ohm filters To allow it to be retrofitted into the TR-3 and early TR-4s which used the 'soupcan' and 'one-box' filters, the NBK board was designed to compensate for the higher impedance of those filters, 2.2k ohms. Later TR-4s used the same blanker without the NBK board because it was not required with 470 ohm filter impedance.

I think I have a "notes" sheet on my TR-4 CD that addresses all this.

I agree on the RCA and GE tubes, but they DO work consistently. The GEs seem to drop off in output faster than the other three, but not significantly. If in fact you DO have two tubes of the same manufacturer, perhaps an element support has broken or some other anomaly. The other potential trouble spot is the small disc ceramic capacitor connected across the neutralization cap. It's 12.5 pF, 2000V, NP0.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

<www.k4oah.com>

Chris Farley wrote:

> Hi Garey,

>

> Thanks for all the information! I'll re-attempt the R24 adjustment, (perhaps with a different analog meter with a quicker movement), and I'll just assume 10m is good enough as-is. The calibrator signal was weaker than expected up there, so I just assumed there was a better way to perform that alignment, given the trouble I had. Fair enough!

>

> I will check for the 470 ohm resistors across T6 and T13 instead of the 2.2k's. I can't picture them or what their purpose is w/o a schematic handy, is it somehow related to the filters?

>

> Regarding the "NBK" board- Unless I have given a misleading description, it certainly seems to be there. Yes, the radio does have the blue filters, not the earlier separates or the soupcan. I didn't even think a NB was available when they were still using the soupcan filter!

> I'm at work now, but offhand the board is about 1 1/2" square, has a metal screw/ceramic type trimmer cap, a toroid coil/transformer, possibly some misc resistors and whatnot, and the band switch shaft goes through a hole a bit offcenter in the board. There are a few pieces of thin coax (RG-174/U size stuff) going to a tube(s), and the NB board. Given all this, what procedure would I use to adjust this trimmer, or should I leave well enough alone? I can only assume that SOMEthing has drifted or changed over all these years, resulting in some sort of adjustment being needed.

>

> On the PA tubes, I am well aware about branding and all that fun stuff, and they were tested as good the last time I had them out. Can't say for sure if they are the same date code, plate structure, or stamped brand, but they are definitely of Sylvania manufacture. I'm predijust against RCA's in RF PA's, and GE's in general. I could try swapping them out, but I don't have any "good" spares at the moment.

>

> Does this help at all, or only present more questions??

>

> Regards,

> Chris

>

>

>

> --- On Thu, 5/28/09, Garey Barrell <k4oah@mindspring. com> wrote:

>

> From: Garey Barrell <k4oah@mindspring. com>

> Subject: Re: [DrakeRadio] TR-4 noise blanker alignment and misc q's

> To: DrakeRadio@yahoogro ups.com

> Date: Thursday, May 28, 2009, 11:04 AM

>

>

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>

> Chris -

>

>

>

> The small board is the "NBK" board, and is used to match the NB to the

>

> older "soup can" filter. A TR-4 with your s/n should have the two blue

>

> filters with the external SIDEBAND switch, and should NOT have the NBK

>

> board installed. There should be 470 ohm resistors across T6 and T13,

>

> NOT 2.2k ohm resistors.

>

>

>

> The R24 adjustment is done with the Blanker ON, but the Calibrator

>

> turned OFF. The adjustment is VERY sharp, and is easy to pass if you

>

> adjust too rapidly.

>

>

>

> Changing neutralization is typically associated with 'off-brand' final

>

> tubes. Anything other than Sylvania, Zenith, RCA or GE brands are

>

> subject to all manner of "possible" problems. There are other

>

> possibilities, but until you have a pair of the "known good" tubes, of

>

> the same manufacturer, you're beating your head against the wall! :-)

>

>

>

> The 10M Injection coupler alignment is pretty broad, and doesn't have a

>

> sharp "peak".

>

>

>

> 73, Garey - K4OAH

>

> Glen Allen, VA

>

>

>

> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs

>

> <www.k4oah.com>

>

>

>

> Chris Farley wrote:

>

>

>> Hi all, hope everyone had an enjoyable Memorial Day weekend!

>>

>

>

>

>

>> I have a TR-4 S/N 30547 that has the noise blanker, but it must be a fairly early one as it is not the plug-in type- it is wired directly through a hole the chassis near the front. My question is this- The adjustments in every manual I have come across is for the plug-in type. There are several differences, most of which I have figured out. There are a couple that I am having trouble with though-

>>

>

>

>> There is a trimmer on a little board underneath the chassis that straddles the Band switch, and I can not seem to do the "B" adjustment in the manual, which wants the blanker off, measuring voltage between terminal 8 (terminal 4 on the schematic I have) and ground, while peaking R-24 for positive voltage. Problem is, with the blanker turned off, there is no voltage present. With the blanker on, R24 seems to have no effect on voltage whatsoever.

>>

>

>

>

>

>> Another problem I'm having is the neutralization. . It keeps changing! Is there a known flakiness somewhere in these that I'm not finding, or is there a sagging grid or something in one of my PA tubes? It's not consistant or drifting with warm-up or anything- it's just different each time I turn it on and tune up- dipped plate is never max pwr out.

>>

>

>

>

>

>> Final issue regards Injection coupler alignment. On the 10m adjustments, I am unable to see a peak on one of the adjustments. I *think* I had this same problem with my other TR-4 too. Is there a better way to perform this alignment? I have a scope and sig gen, but no "good" frequency counter. My absolute last resort would be sending it off to be aligned- I wouldn't learn anything that way!

>>

>

>

>

>

>> Any ideas? Lots of questions here, I probably should have split it up and asked one at a time after figuring it out! The blanker does seem to work pretty well as-is and the radio performs reasonably, but I'm trying to go through this thing once and for all so I can finally put the covers back on and put one in the car!

>>

>

[Non-text portions of this message have been removed]

2208. Drake 2-C Issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-03 02:46:08 UTC
From: Mark Junk
Topic: 2208 Message: 2208

Just got a 2-C from a fellow HAM. Radio worked ok before shipping. When received it pins the S meter and squeals. Checked tubes to see if they are in the sockets ok...any ideas? 73...KK9U

2209. Re: [DrakeRadio] Drake 2-C Issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-03 18:18:24 UTC
From: Garey Barrell
Topic: 2208 Message: 2209

Mark -

Sounds like an IF stage is oscillating. I would suggest going through with a screwdriver and tightening all mounting hardware, especially on tube sockets and terminal strips. If they seem to be tight, loosen slightly and then re-tighten. While you're doing this, keep your eyes open for anything that doesn't look right, or looks out of place. (Like a piece of wire or something floating around that shouldn't be there!)

If that doesn't resolve the problem, let us know and we can go further.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Mark Junk wrote:
> Just got a 2-C from a fellow HAM. Radio worked ok before shipping. When received it pins the S meter and squeals. Checked tubes to see if they are in the sockets ok...any ideas?
73...KK9U
>
>
>

2210. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-03 10:09:28 UTC
From: Victor Waddington
Topic: 606 Message: 2210

Hi all
Power suddenly dropped on 40m. Was getting 100w and then dropped to 10w on max gain in key down position. But in 'Tune 'position on max gain I get 60w. The max IC I can get is 150 ma in 'Tune ' and less than 100 ma in key down
On 20m I still get 100w in key down and also 'Tune ' and the IC is OK.
Haven't tried the other bands yet.
Any ideas, please?
Vic
G4JSS

2211. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-03 21:15:47 UTC
From: Garey Barrell
Topic: 606 Message: 2211

Vic -

Where is the LOAD control set on 40M for max output?

Check C87 for solder condition, connection, etc. Watch for HV!!

Carefully examine the switch sections in the back compartment of the
BAND switch.

If no luck, check the other bands for reference.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor Waddington wrote:
> Hi all
> Power suddenly dropped on 40m. Was getting 100w and then dropped to 10w on max gain in key down position. But in 'Tune 'position on max gain I get 60w. The max IC I can get is 150 ma in 'Tune ' and less than 100 ma in key down
> On 20m I still get 100w in key down and also 'Tune ' and the IC is OK.
> Haven't tried the other bands yet.
> Any ideas, please?
> Vic
> G4JSS
>
>
>

2212. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-04 06:26:07 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 2212

Gary

Thanks for info.

The load setting was just under the 3 into a dummy load. Tried again this morning (hoping it had gone away!) still the same.

73

Vic
Value your online security. Get 50% off Norton Security 2009 only from Tiscali - http://www.tiscali.co.uk/securepc
---

[Non-text portions of this message have been removed]

2213. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-04 15:07:11 UTC
From: Garey Barrell
Topic: 606 Message: 2213

Vic -

A sudden failure like this usually indicates a cracked solder joint. If the problem is ONLY 40M (have you tried other bands yet?), the trouble is most likely in the PA area. There are large wires from the tank coil to the bandswitch wafer in the last compartment under the chassis that are subject to solder cracking from mechanical stress. Of course switch contacts are also subject to corrosion. Poking and prodding with an INSULATED or fiber rod in that area with the transmitter operating into a dummy load will often locate the problem. Watch out for HV!!!!

The tuned circuits for the PreMixer and Driver stages are possible suspects, so careful inspection of switch contacts and solder joints in these areas may find something.

Obviously if you have a scope available it makes it a lot easier to troubleshoot if you can isolate the problem to a particular stage.

It would be worth a quick check just to make sure that the 10W you are getting are REALLY on 40M, and not some other frequency.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Gary
>
> Thanks for info.
>
> The load setting was just under the 3 into a dummy load. Tried again this morning (hoping it had gone away!) still the same.
>
>
>
> 73
>
> Vic
>
>

2214. Re: Drake 2-C Issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-04 17:24:56 UTC
From: gonzalo
Topic: 2208 Message: 2214

-I borrow mine to a friend,when returns the radio appears to be death just noise ,I check everything tubes,transistors,wiring ,just to find at last the slider switch AUX-NOR,located in the left side doesn't make good contact,maybe get a dang in the carry.well go to figure ¡¡ that let me familiarize with this radio a LOT¡¡ hope you find the fault it may be something simple.

Saludos desde Venezuela.
Gonzalo Mijares.
YV5NGK.
Greetings from Venezuela.

> Mark Junk wrote:,
> > Just got a 2-C from a fellow HAM. Radio worked ok before shipping. When received it pins the S meter and squeals. Checked tubes to see if they are in the sockets ok...any ideas? 73...KK9U
> >
> >
> >
>

2215. Informations for DRAKE SPR - 4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-05 17:22:44 UTC
From: Hans-Joachim Empel
Topic: 2215 Message: 2215

Hi folks ,
i have 3 Drake SPR - 4 Receivers.
one of the RX was in worst conditions before i was starting to clean repair and adjust.
for this RX i am looking for a new ore good used frontplate and original knobs.
has anybody an idear how to find this parts ????
Regards from Germany
Joachim
DL2388RB

[Non-text portions of this message have been removed]

2216. Re: [DrakeRadio] Informations for DRAKE SPR - 4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-05 19:36:26 UTC
From: N9JCQ@aol.com
Topic: 2215 Message: 2216

Joachim, here is a link for a company here in the US that sells exact reproduction panels:
http://www.universal-radio.com/catalog/hamacc/4870.html

Good luck with your restoration.

Joe, N9JCQ
-----Original Message-----
From: Hans-Joachim Empel <hajoempel@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, 5 Jun 2009 12:22 pm
Subject: [DrakeRadio] Informations for DRAKE SPR - 4

Hi folks ,

i have 3 Drake SPR - 4 Receivers.

one of the RX was in worst conditions before i was starting to clean repair and adjust.

for this RX i am looking for a new ore good used frontplate and original knobs.

has anybody an idear how to find this parts ????

Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2217. Some idears about DRAKE SPR - 4 Trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-06 08:11:48 UTC
From: Hans-Joachim Empel
Topic: 2217 Message: 2217

Hello folks ,
i need some good idears.

following problem i have with my DRAKE SPR - 4.

at first , all 23 xtals are in the DRAKE placed.

at some frequencys i can use with the xtals i have no signal.

i was testing the the frequency selector and the cristal selector in several positions , same result.

for example frequency selector to pos.6 MHz , cristal selector in pos.B and turning slowly the preselector from 0 - 10 nothing.

than same frequency , cristal selector in pos.C and turning slowly the preselector from 0 - 10 nothing and so on.

one other thinks it gives me some gray hairs

i receive the 150 to 500 kHz Range with the cristal selector in position 22 , the range switch in position F and the preselector near 10.

the signals are clear and good and stromg , DCF 77 on 77.5 kHz and DWD on 147.5 kHz in RTTY are excellent to receive.

also alle longwave radio stations from europe.

if i take the cristal selector in position A and the frequency selector to position 1 like in the DRAKE - Manual nothing on signal (s) to receive.

Please all idears are welcome to fix the problem (s).

Regards from Germany

Joachim DL2388RB

[Non-text portions of this message have been removed]

2218. Re: [DrakeRadio] Need some informations about Drake SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-12 08:24:19 UTC
From: Hans-Joachim Empel
Topic: 2190 Message: 2218

Good morning from Germany .

so my third SPR - 4 is also running very fine.

i have the SPR - 4s No.327 , No.1445 and No.4385

all three are running on 12 VDC powersorce and they are smooth and cool and absolut frequency stable.

from the receiving sensitivity , they are better as my R8A and R8

i am using my LOG - PERIODIC antenna (TITANEX DLP-18) and i can listen to signals , never before received.

i had a couple of receivers in the past , but the SPR - 4 is like a GUN , smooth adjusted they are better as the most of the

new receivers.

GREAT WORK FROM DRAKE --- FOR ME : DRAKE , RHODE und SCHWARZ and JRC are the best for receivers

i will looking for a fourth SPR - 4 (if the price is accaptable on EPAY sorry EBAY).

only a small question about the Xtals , has anybody an idear how to buy additional Xtals for the SPR - 4 ?????

some offers on EPAY are that high thats already too expensive to buy (25 Dollars for one Xtal is money - robbery)

if anybody have any idear about buying Xtals , please let me know.

Regards and thanks again from Germany

Joachim Empel

my email is hajoempel@...
ore DL2388RB@...

Sorry about my poor english

regards from Germany
Joachim

[Non-text portions of this message have been removed]

Yahoo! Groups Links

2219. Need a 4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 12:56:58 UTC
From: charles_orzech
Topic: 2219 Message: 2219

Hi folks,

I'm looking for a 4B to join my Tr7. Does anyone have one they can bear to part with?

Best regards,

Charlie Orzech

2220. RE: [DrakeRadio] Need a 4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 13:51:33 UTC
From: Joel Levy
Topic: 2219 Message: 2220

Charlie, I'd trade you my 4B for a SPR-4. 73, Joel AE2JL

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of charles_orzech
Sent: Saturday, June 13, 2009 8:57 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Need a 4B

Hi folks,

I'm looking for a 4B to join my Tr7. Does anyone have one they can bear to part with?

Best regards,

Charlie Orzech

[Non-text portions of this message have been removed]

2221. R4 RF Amp Confusion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 16:16:02 UTC
From: russellhulett
Topic: 2221 Message: 2221

I recently acquired 2 R-4 receivers, until recently had only tried them on 40M. Tuned the one presently in the operating position to 20M and noticed sensitivity seemed low on 20, 15 and 10 as well. Adjusted the trimmer caps for max S reading of calibrator signal, S-5 was max obtainable on 20. My schematic showed a 12BZ6 for V12 calibrator, so thought to swap. On opening the case, turned out it was a 12BA6 instead.

Checking schematic in the manual for the other R-4 and found the V-12 was shown as a 12BA6. Opened up the other R-4 to borrow V-1 from that radio, but the previous owner had installed a 12BA6 instead. Having read somewhere that the 12BA6 could be subbed for the 12BZ6, I tried it and found the sensitivity on 20 was up above S-9. But, using a 12BA6 will provide a grounded cathode, no bias, because the two type tubes have pins 2 & 7 swapped.

My question, did Drake at some point change V12 from 12BZ6 to 12BA6 or is my first schematic wrong? And, what about using an unbiased 12BA6 instead of the 12BZ6. Finally, what is best source for top quality 12BZ6 tubes? I'm reading that about 1/2 of those tried are no good.

73, Curt KB5JO

2222. CQ CQ CQ DRAKE OPS TO SHOOT THE BREEZE????

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 17:14:06 UTC
From: Kris Merschrod
Topic: 2222 Message: 2222

A few of us (N3JQD, W8AC...) would like to extend the Tuesday night swap net to shoot the breeze, compare performance, mics, and just talk about Drakes. This would be an opened, all around chat format - no control station.

That would be Tuesdays 3.865 MHz starting after the 8 PM Eastern Time net ends

If there are any other Drake nets please post.

Kris KA2OIG Merschrod
123 Warren Road
Ithaca, NY 14850
(607) 257-1734

www.merschrod.net/KA2OIG.htm

2223. Re: [DrakeRadio] R4 RF Amp Confusion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 18:19:57 UTC
From: Garey Barrell
Topic: 2221 Message: 2223

Curt -

There were at least two versions of the R-4 schematic. The first one was 107640001, 10/7/64, s/n 0001, and showed the 12BZ6 RF Amp (V1) and 12BZ6 Calibrator (V12). This one was circulated in the very early manuals, at least some of which were marked "Preliminary". I had one of the first R-4s, ordered when they were announced, and it in fact had the 12BZ6 at V12. The second version, 29650001, 02/09/65, s/n 0001, showed a 12BZ6 at V1 and a 12BA6 at V12.

The two tubes stayed the same then up through the R-4 and four versions of the R-4A, until the R-4B of 926677000, 9/26/67, s/n 7000 when V1 was changed to a 6BZ6 and the calibrator went solid-state.

There are more than a few R-4s and R-4As that have a 6BZ6 at V1, even thought the chassis was stamped with "12BZ6". The 12BZ6 was an elusive tube, and considerably more expensive than the 6BZ6, even back then. It was a simple change to move one wire to put 6.3 VAC on the V1 filament pin.

The 12BA6 and 12BZ6 "may" be interchanged in "some" circuits, i.e., those where the Suppressor grid is tied directly to the Cathode. The Drake calibrator circuit is NOT one of those circuits!

As for the relative sensitivity of the receiver as determined by the Calibrator signal, you'll find that all Calibrator harmonics are NOT created equal, and that they can vary 10 or more dB from one harmonic to the next, especially on the higher bands. The only sure test of sensitivity is with a calibrated signal generator such as the Elecraft XG-1/2 or the NORCAL S9, in lieu of a "real" calibrated signal generator such as an HP 606A, etc.

I'm not aware of a problem with 12BZ6 tubes. The 12BA6 is subject to grid emission or "gas" which is of little consequence in most circuits, but IS a problem in the IF stages because it loads the AVC line and causes the S-Meter to "drift" around over time. This is why it's sometimes necessary to try a few 12BA6 tubes when replacing V4 and V5.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> I recently acquired 2 R-4 receivers, until recently had only tried them on 40M. Tuned the one presently in the operating position to 20M and noticed sensitivity seemed low on 20, 15 and 10 as well. Adjusted the trimmer caps for max S reading of calibrator signal, S-5 was

max obtainable on 20. My schematic showed a 12BZ6 for V12 calibrator, so thought to swap. On opening the case, turned out it was a 12BA6 instead.
>
> Checking schematic in the manual for the other R-4 and found the V-12 was shown as a 12BA6. Opened up the other R-4 to borrow V-1 from that radio, but the previous owner had installed a 12BA6 instead. Having read somewhere that the 12BA6 could be subbed for the 12BZ6, I tried it and found the sensitivity on 20 was up above S-9. But, using a 12BA6 will provide a grounded cathode, no bias, because the two type tubes have pins 2 & 7 swapped.
>
> My question, did Drake at some point change V12 from 12BZ6 to 12BA6 or is my first schematic wrong? And, what about using an unbiased 12BA6 instead of the 12BZ6. Finally, what is best source for top quality 12BZ6 tubes? I'm reading that about 1/2 of those tried are no good.
>
> 73, Curt KB5JO
>
>

2224. Re: Need a 4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-13 21:00:16 UTC
From: charles_orzech
Topic: 2219 Message: 2224

Hi Joel,

Thanks--but I don't have an spr-4 to trade!

Best,

Charlie

--- In DrakeRadio@yahoogroups.com, Joel Levy <jlevy01@...> wrote:
>
> Charlie, I'd trade you my 4B for a SPR-4. 73, Joel AE2JL
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of charles_orzech
> Sent: Saturday, June 13, 2009 8:57 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Need a 4B
>
>
>
>
>
>
>
>
>
> Hi folks,
>
> I'm looking for a 4B to join my Tr7. Does anyone have one they can bear to
> part with?
>
> Best regards,
>
> Charlie Orzech
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2225. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-14 18:07:07 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2225

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2226. Drake R-7 Distorted AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-16 02:19:14 UTC
From: Dale Parfitt
Topic: 2226 Message: 2226

I just got in an R-7- beautiful cosmetically, but has a problem on AM. Let me first say there is no AM filter per se- just the resistive bypass. SSB/CW is normal. AM is very crackly- seems to be detecting a lot of highs- and yet is also muffled and distorted. Reseating the 2/3rd IF board made no difference. Thoughts?

Tnx,
Dale W4OP

2227. Re: [DrakeRadio] Need a 4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-19 23:16:01 UTC
From: K4GM-George
Topic: 2219 Message: 2227

I have a couple to sell. Do you want one with a cw filter? Sherwood mods? or plain vanilla as it came from the factory???
K4GM- George

charles_orzech wrote:
>
>
> Hi folks,
>
> I'm looking for a 4B to join my Tr7. Does anyone have one they can
> bear to part with?
>
> Best regards,
>
> Charlie Orzech
>
>

2228. Re: Need a 4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-20 22:18:00 UTC
From: charles_orzech
Topic: 2219 Message: 2228

Hi George,

Thanks for the message--I found one (though I've not received it yet). which Sherwood mods do you recommend?

Best,

Charlie

--- In DrakeRadio@yahoogroups.com, K4GM-George <k4gm@...> wrote:
>
> I have a couple to sell. Do you want one with a cw filter? Sherwood
> mods? or plain vanilla as it came from the factory???
> K4GM- George
>
> charles_orzech wrote:
> >
> >
> > Hi folks,
> >
> > I'm looking for a 4B to join my Tr7. Does anyone have one they can
> > bear to part with?
> >
> > Best regards,
> >
> > Charlie Orzech
> >
> >
>

2229. Wiring a T-UG8 for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-27 21:51:44 UTC
From: russellhulett
Topic: 2229 Message: 2229

Usually operate CW, haven't tried my T-4X with SSB yet. I have an old D-104 with T-UG8 base would like to use, wiring has me a little bumfuzzled.

If anyone has successfully wired a T-UG8 base to a S260 connector for T-4x, would surely appreciate info on the connections made. Of course I want to bypass the preamp.

So, believe the correct method would be to connect T-UG8 white to S-260 tip, red to ring, shield to sleeve. T-UG8 Black remains unconnected. Inside the base, jumper terminal 3 to 8 (to bypass the preamp), remove the battery, set base switch to "E".

Thanks in advance & 73 Curt KB5JO

2230. mike element

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-27 23:01:00 UTC
From: stevelighthall
Topic: 2230 Message: 2230

i am looking for a new element for the drake desk mike that came with my tr-7
I have emailed Heil and gotten no response
does any one have any other ideas
thanks
steve

2231. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-28 17:38:34 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2231

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2232. Re: [DrakeRadio] Wiring a T-UG8 for T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-29 00:04:49 UTC
From: Jim Shorney
Topic: 2229 Message: 2232

On Sat, 27 Jun 2009 21:51:44 -0000, russellhulett wrote:

>So, believe the correct method would be to connect T-UG8 white to S-260 tip, red to ring, shield to sleeve. T-UG8 Black remains unconnected. Inside the base, jumper terminal 3 to 8 (to bypass the preamp), remove the battery, set base switch to "E".

You do not want to leave the preamp connected in any way. The manual can be found here:

http://www.cbtricks.com/mic_manuals/astatic/astatic_d104_manual.pdf

Move the green wire that comes frm the mic cartridge from pin 3 to pin 8, or better yet, put a 470K resistor in series with the green wire to pin 8. This will improve your audio. Disconnect the white wire that comes from the preamp board to #8. Or, the way I usually do it: lift the white wire from the mic cable from #8, and lift the green wire from the mic cartridge from pin three, solder each to one end of a 470K resistor, and cover with heat shrink tubing. This leaves the mic element active at all times, which allows VOX operation.

Leave the switch in "R". Red is PTT, black is PTT Return (ground), white is mic audio, and shield is mic return (ground). The "E" position is for electronically switched (CB) radios. Wouldn't hurt anything if you used it as you described, but "R" provides the classic wiring scheme for relay switched radios.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2233. Re: R4 RF Amp Confusion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-06-30 03:32:16 UTC
From: w1fued@sbcglobal.net
Topic: 2221 Message: 2233

--- In DrakeRadio@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> I recently acquired 2 R-4 receivers, until recently had only tried them on 40M. Tuned the one presently in the operating position to 20M and noticed sensitivity seemed low on 20, 15 and 10 as well. Adjusted the trimmer caps for max S reading of calibrator signal, S-5 was max obtainable on 20. My schematic showed a 12BZ6 for V12 calibrator, so thought to swap. On opening the case, turned out it was a 12BA6 instead.
>
> Checking schematic in the manual for the other R-4 and found the V-12 was shown as a 12BA6. Opened up the other R-4 to borrow V-1 from that radio, but the previous owner had installed a 12BA6 instead. Having read somewhere that the 12BA6 could be subbed for the 12BZ6, I tried it and found the sensitivity on 20 was up above S-9. But, using a 12BA6 will provide a grounded cathode, no bias, because the two type tubes have pins 2 & 7 swapped.
>
> My question, did Drake at some point change V12 from 12BZ6 to 12BA6 or is my first schematic wrong? And, what about using an unbiased 12BA6 instead of the 12BZ6. Finally, what is best source for top quality 12BZ6 tubes? I'm reading that about 1/2 of those tried are no good.
>
> 73, Curt KB5JO
> Hi Curt,
Well I can't speak for the r4, but I have 2 r4a's and an r4b.
The 12bz6 tubes are available for the r4 and r4a and my SW4a, but as reported some are no good as new. What I did (as others have done) is to rewire the filament voltage for 6 volts and run 6bz6 tubes, They are plentiful and I have had good luck with replacements. The r4b uses the 6bz6 from new.
I have one r4a that appears to have had 6bz6 from new and my late model 2-c has a 6bz6 (as stamped on the chassis) although the schematic says 12bz6. Try a stupid thing first and see if the filament voltage is 6 or 12 v. Stranger things have happened depending on how long you have owned the radio and if it worked before.
GL,
ED

2234. R-4C Notch filter not working, at all

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-01 03:25:33 UTC
From: exploreaustralia
Topic: 2234 Message: 2234

Hi All

I am not the most experienced Drake repair person, so some advise is what I am after.

I bought a R-4C from an original owner, it was in good condition but I did not get a chance to test it before buying it so I guess I am stuck with it

1. I am located in australia, is there a good Drake tech here? I may have to send this one to him.

2. The receiver is about 4dB down in sensitivity and the notch filter has no effect when turned.
The notch filter physically works perfectly, the slug tracks its self without issues.
placing iron then brass into the coil had no effect, this effects the inductance of the coil without touching its settings .
It almost appears not to have a 50KHz oscillator.
I am finding it fun as I do not get a challenge often.

The agc is all over the place when compared to test voltage table in the manual. and my heater 6.3v is 7.0v due to my 250V input voltage.
Is the R-4C particularly sensitive to input voltages
I have a R-4A sitting beside it and it works perfectly.

Anyway any ideas are welcome.

Regards John
VK2XCQ

2235. WTB: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-02 05:06:42 UTC
From: Dale Parfitt
Topic: 2235 Message: 2235

I am posting this for a friend who is looking for a clean 4B.
Anyone have one available?

Tnx,
Dale W4OP

2236. LOOKING for another DRAKE SPR - 4 ore DRAKE - R4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-04 20:52:26 UTC
From: Hans-Joachim Empel
Topic: 2236 Message: 2236

Hi folks ,
i have 3 Drake SPR - 4 Receivers , Serial No.372 , Serial No.1445 and
Serial No.4385
i am looking for a fourth DRAKE SPR - 4 receiver.
has anybody some idear , ore offer an DRAKE SPR - 4 receiver for a fair
price.
PLEASE NO EPAY .
i am thinking to buy a DRAKE - R4 HAM - Receiver for the same conditions.
If the Receiver is in not so good conditions , no problem , Serial No.4385
was a pain in the neck ,
before i finished the work and took the Receiver alive.
If somebody has an offer , please feel free and contact me.
Regards from Germany
Joachim
DL2388RB

2237. Re: [DrakeRadio] lokking for a DRAKE SPR - 4 ore a DRAKE R4 receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-04 20:58:54 UTC
From: Hans-Joachim Empel
Topic: 2237 Message: 2237

Hi folks ,
i have three Drake SPR - 4 Receivers Serial No.327 , Serial No.1445 and Serial No.4385

i am looking for a fourth Drake SPR - 4 receiver for a fair price ore for a Drake R - 4 HAM receiver.

the conditions for the receivers are not that problem.

if anybody has a fair offer , please contact me ore give some informations

Regards from Germany
Joachim
DL2388RB

2238. drake nb or cal. plug

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-12 16:23:40 UTC
From: w1fued@sbcglobal.net
Topic: 2238 Message: 2238

Does anyone know the name of the plug found on the end of the 2-cq or calibrator that plugs into the chasis on 2b, 2c, etc. or more importantly where I might find one?
Thanks,
Ed

2239. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-13 01:17:40 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2239

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2240. Requested Response

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-16 02:43:38 UTC
From: Jim Jordan
Topic: 2240 Message: 2240

[Non-text portions of this message have been removed]

2241. Re: Requested Response

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-16 03:23:58 UTC
From: wa6rkn
Topic: 2240 Message: 2241

--- In DrakeRadio@yahoogroups.com, Jim Jordan <w5ssn1@...> wrote:
>
>
>
>
> [Non-text portions of this message have been removed]
>

Hi Jim! Welcome aboard!

As you can see, nothing in your post, came through. Perhaps you can resend it.

We are always happy to read about your interests and what Drake equipment you have or are interested in adding to your shack.

Again, glad to see you here!

Joe Wolfe
WA6RKN
Reno, Nevada

2242. Drake-4C First IF Filter Assignments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-18 12:21:37 UTC
From: tux792
Topic: 2242 Message: 2242

Do any of you have personal experience with either the INRAD or Sherwood Engineering crystal 1st IF filter options? I would like to know, before I spend more than the receiver cost (new), how well the INRAD option works and how it works as compared to the Sherwood options.

73, Jim, W5SSN

2243. Drake TR-270 Components Needed - TNC-270, DEMOD270

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-19 22:53:40 UTC
From: hamradio1012000
Topic: 2243 Message: 2243

Hi All,

I am in need of copies of the software and manuals for the Drake TNC-270 and DEMOD270. I have the TR-270 radio with the TNC and DEMOD installed, but somehow misplaced the manuals and SW.

I have called Drake, and the parts are no longer available. I will be happy to pay copying, shipping, and handling costs.

BTW the TR-270 is a heck of a one-and-a-half bander. It is a full 2m radio with a 440 receiver. I always get compliments on the transmit audio. TNC works well for APRS and I have copied airline ACARS info in the past.

73 and thanks in advance for any help,

Gene K1NR

2244. RE: [DrakeRadio] Drake TR-270 Components Needed - TNC-270, DEMOD270

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-19 23:35:12 UTC
From: Jim Chaggaris
Topic: 2243 Message: 2244

I would check out the BAMA website.

http://bama.sbc.edu/drake.htm

Best Regards,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental Corp.
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Cell: 630-669-2241
www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of hamradio1012000
Sent: Sunday, July 19, 2009 5:54 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake TR-270 Components Needed - TNC-270, DEMOD270

Hi All,

I am in need of copies of the software and manuals for the Drake TNC-270 and DEMOD270. I have the TR-270 radio with the TNC and DEMOD installed, but somehow misplaced the manuals and SW.

I have called Drake, and the parts are no longer available. I will be happy to pay copying, shipping, and handling costs.

BTW the TR-270 is a heck of a one-and-a-half bander. It is a full 2m radio with a 440 receiver. I always get compliments on the transmit audio. TNC works well for APRS and I have copied airline ACARS info in the past.

73 and thanks in advance for any help,

Gene K1NR

[Non-text portions of this message have been removed]

2245. Re: [DrakeRadio] Drake TR-270 Components Needed - TNC-270, DEMOD270

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-20 01:38:57 UTC
From: Al
Topic: 2243 Message: 2245

Hi Gene, I just checked eHam.net to see if there were any reviews of the TR-270 and found one. KQ6EA James reviewed the radio in May 2004 and had the options you wanted. He may still have the radio or know who does. You may try contacting him. His email is listed as kq6ea@... . Good luck.

Al n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Sun, 7/19/09, hamradio1012000 <eugeneb@...> wrote:

From: hamradio1012000 <eugeneb@...>
Subject: [DrakeRadio] Drake TR-270 Components Needed - TNC-270, DEMOD270
To: DrakeRadio@yahoogroups.com
Date: Sunday, July 19, 2009, 4:53 PM

Hi All,

I am in need of copies of the software and manuals for the Drake TNC-270 and DEMOD270. I have the TR-270 radio with the TNC and DEMOD installed, but somehow misplaced the manuals and SW.

I have called Drake, and the parts are no longer available. I will be happy to pay copying, shipping, and handling costs.

BTW the TR-270 is a heck of a one-and-a-half bander. It is a full 2m radio with a 440 receiver. I always get compliments on the transmit audio. TNC works well for APRS and I have copied airline ACARS info in the past.

73 and thanks in advance for any help,

Gene K1NR

[Non-text portions of this message have been removed]

2246. QSL

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-20 09:15:07 UTC
From: Victor Waddington
Topic: 2246 Message: 2246

Hello
Anyone know of a QSL route for XU7MBY? Sent one via the bureau but came back no route.
Nothing on QRZ either.
Thanks
Vic
G4JSS

2247. Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 08:56:54 UTC
From: Victor Waddington
Topic: 2247 Message: 2247

Hi all
Am trying to source a Jones socket that will fit the polarised 4 pin jones plug on my TR7 (battery connection next to fan) The minimum oredr trap has beaten me. e.g. found a source in the US where the socket was about $5 but they would impose a $95 surcharge for minimum order plus postage making the cost of 1 socket about $125.
Anyone got one they would sell me or have a better idea, please.
At the momemnt I am using spade connectors from my PSU - I don't have a PS7
73
Vic

2248. re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 12:41:20 UTC
From: jimc@pwrone.com
Topic: 2247 Message: 2248

Vic,

Did you try Newark Electronics or Allied Electronics in the US?

73,

Jim N9WW

James Chaggaris
PowerOne Corp.
1020 Cedar Avenue Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505

-------- Original Message --------
> From: "Victor Waddington" <g4jss@...>
> Sent: Sunday, July 26, 2009 4:53 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Cinch Jones connector
>
> Hi all
> Am trying to source a Jones socket that will fit the polarised 4 pin jones plug on my TR7 (battery connection next to fan) The minimum oredr trap has beaten me. e.g. found a source in the US where the socket was about $5 but they would impose a $95 surcharge for minimum order plus postage making the cost of 1 socket about $125.
> Anyone got one they would sell me or have a better idea, please.
> At the momemnt I am using spade connectors from my PSU - I don't have a PS7
> 73
> Vic

2249. re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 16:11:48 UTC
From: g4jss@tiscali.co.uk
Topic: 2247 Message: 2249

Hi Jim

Yep. It was Allied who wanted a surcharge of $100 for a minimum order outside the U.S.

The others were much the same.

I suppose we all have to live with it but this minimum order is getting a bit beyond reason. Yes, I've heard the arguments for it which don't hold up. i.e. 'We have to pay a man to pick it up and then we have to parcel it which involves packaging materials and then we have to send a man down to the Post Office etc. etc. That really doesn't cover a $5 item being turned into $125 or more - and shipping isn't done like that anyway. Just another rip off by dealers.

But thanks for your suggestion.

Cheers

Vic
Services and exclusives from Tiscali - http://www.tiscali.co.uk/services

---

[Non-text portions of this message have been removed]

2250. Re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 16:58:02 UTC
From: Jim Chaggaris
Topic: 2247 Message: 2250

Vic
I was going to place an order for a few Jones connectors from Mouser today
If you want I can add the ones you want onto that order and have my company ship it out to you
Just let me know the part numbers
73
Jim N9WW

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "g4jss@..." <g4jss@...>

Date: Sun, 26 Jul 2009 17:11:48 +0100 (GMT+01:00)
To: <DrakeRadio@yahoogroups.com>
Subject: re: [DrakeRadio] Cinch Jones connector

Hi Jim

Yep. It was Allied who wanted a surcharge of $100 for a minimum order outside the U.S.

The others were much the same.

I suppose we all have to live with it but this minimum order is getting a bit beyond reason. Yes, I've heard the arguments for it which don't hold up. i.e. 'We have to pay a man to pick it up and then we have to parcel it which involves packaging materials and then we have to send a man down to the Post Office etc. etc. That really doesn't cover a $5 item being turned into $125 or more - and shipping isn't done like that anyway. Just another rip off by dealers.

But thanks for your suggestion.

Cheers

Vic
Services and exclusives from Tiscali - http://www.tiscali.co.uk/services
---

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2251. Re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 19:21:20 UTC
From: g4jss@tiscali.co.uk
Topic: 2247 Message: 2251

Hi

Fabulous. The part No.is S304-H-CCT. It 's a female plug for the four pin polarised battery connector on the TR7. It used to be S-404-CCT but the part No's have now changed.

Let me know the cost and I can either sort it by Paypal or whatever way you prefer.

73 and thanks

Vic

G4JSS
Services and exclusives from Tiscali - http://www.tiscali.co.uk/services
---

[Non-text portions of this message have been removed]

2252. Looking for a Main tuning knob for DRAKE SPR-4 / additional Filters for DRAKE R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 20:11:08 UTC
From: Hans-Joachim Empel
Topic: 2252 Message: 2252

Hello from Germany ,

i am the owner of four DRAKE SPR-4 receivers.
for one of the receivers i am looking for an original main tuning knob. (Serial No. 2112)
has anybody an idear how to buy an original main tuning knob ore know anybody a supplier for good replicas ????
all idears are welcome.

i am looking also for accesory cristal filters for my DRAKE R-4C.
this DRAKE R-4C is in absolute mint conditions and comes from the German Government.
i am looking only for original DRAKE - Parts.

i am interested in following filters :

1. 6 ore 4kHz AM - Filter
2. 500 Hz CW - Filter
3. 250Hz CW - Filter

i am also interested in a NB-4 Noiseblanker.

please no EPAY sometimes the quality is horrable.

i am also happy if i can get some informations about buying the parts for my R-4C

Regards from Germany

Joachim Empel
DL2388RB

2253. Re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 21:44:41 UTC
From: jimc@pwrone.com
Topic: 2247 Message: 2253

Vic,

I placed my order today for the Cinch Jones connectors including the S-304H-CCT from Mouser Electronics. The part was $4.00. Mouser ships pretty quick so I should have the parts by Wednesday.

Best Regards,

Jim N9WW

James Chaggaris
PowerOne Corp.
1020 Cedar Avenue Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505

-------- Original Message --------
> From: "g4jss@..." <g4jss@...>
> Sent: Sunday, July 26, 2009 2:36 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Cinch Jones connector
>
> Hi
>
> Fabulous. The part No.is S304-H-CCT. It 's a female plug for the four pin polarised battery connector on the TR7. It used to be S-404-CCT but the part No's have now changed.
>
> Let me know the cost and I can either sort it by Paypal or whatever way you prefer.
>
> 73 and thanks
>
>
>
> Vic
>
> G4JSS
> Services and exclusives from Tiscali - http://www.tiscali.co.uk/services
> _____
>
> [Non-text portions of this message have been removed]

2254. TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 22:01:50 UTC
From: Roger White
Topic: 2254 Message: 2254

I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?

Thanks and 73,

Roger W5RDW
Murphy, Texas

[Non-text portions of this message have been removed]

2255. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-26 22:27:31 UTC
From: Jim Shorney
Topic: 2254 Message: 2255

On Sun, 26 Jul 2009 17:01:50 -0500, Roger White wrote:

>I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?

The first thing to do before you start digging in would be to remove and re-seat all the boards. As these radios age, oxidized Molex pin connectors start to become a problem. Could also be oxidized switching contacts in the headhphone or external speaker jacks.

Are the S-Meter readings about the same on both radios? Does the problem exist in only one or two modes, or does it follow all modes? Is the audio normal with headphones or an external speaker? Characterising how the radio operates under various conditions compared to the good sample will help isolate the problem area.

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2256. Re: [DrakeRadio] Cinch Jones connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-27 06:14:35 UTC
From: g4jss@tiscali.co.uk
Topic: 2247 Message: 2256

Hi Jim

That's brilliant - a bit different to $125+. Let me know the final cost and will see to it.

All the best

Vic
Services and exclusives from Tiscali - http://www.tiscali.co.uk/services

---

[Non-text portions of this message have been removed]

2257. Re: [DrakeRadio] Looking for a Main tuning knob for DRAKE SPR-4 / additional Filters for DRAKE R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-27 06:28:47 UTC
From: g4jss@tiscali.co.uk
Topic: 2252 Message: 2257

Hi Joachim

Just search ' Drake knobs' on Google. Then click on Drake Membervillia. You'll finds lots of Drake bits and pieces there. I got a full set of knobs for 4B from WB4HN

Vic

G4JSS
Services and exclusives from Tiscali - http://www.tiscali.co.uk/services

---

[Non-text portions of this message have been removed]

2258. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-27 14:38:58 UTC
From: Roger White
Topic: 2254 Message: 2258

Unfortunately, I don't have any headphones. The TR7 that has the low audio had been repaired for bad PIN diodes and was otherwise looked all over and seems to be OK as far as Pout, sensitivity, etc. I am not sure it had any boards pulled and reseated. Maybe not, if the problem was with the PIN diodes, since I think they are on the a small board that does not plug into any large connectors. Both have very similar S-meter readings across all bands 10 to 80 meters. When both are on the same external speaker, the same low audio is apparent on the TR7 that has the low audio on its internal speaker. The low audio is for all modes, CW, SSB, etc.

Thanks!

Roger W5RDW
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Sunday, July 26, 2009 5:27 PM
Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

On Sun, 26 Jul 2009 17:01:50 -0500, Roger White wrote:

>I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?

The first thing to do before you start digging in would be to remove and re-seat all the boards. As these radios age, oxidized Molex pin connectors start to become a problem. Could also be oxidized switching contacts in the headhphone or external speaker jacks.

Are the S-Meter readings about the same on both radios? Does the problem exist in only one or two modes, or does it follow all modes? Is the audio normal with headphones or an external speaker? Characterising how the radio operates under various conditions compared to the good sample will help isolate the problem area.

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

2259. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-27 17:53:29 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2259

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2260. Re: [DrakeRadio] Looking for a Main tuning knob for DRAKE SPR-4 / additional Filters for DRAKE R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-27 18:19:08 UTC
From: Hans-Joachim Empel
Topic: 2252 Message: 2260

Thanks for the good tip
regards
Joachim
----- Original Message -----
From: <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 27, 2009 8:28 AM
Subject: Re: [DrakeRadio] Looking for a Main tuning knob for DRAKE SPR-4 / additional Filters for DRAKE R-4C

>
> Hi Joachim
>
> Just search ' Drake knobs' on Google. Then click on Drake Membervillia.
> You'll finds lots of Drake bits and pieces there. I got a full set of
> knobs for 4B from WB4HN
>
>
>
> Vic
>
> G4JSS
> Services and exclusives from Tiscali - http://www.tiscali.co.uk/services
> ----------
>
> [Non-text portions of this message have been removed]
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> ----------
>
> Yahoo! Groups Links
>
>
>

2261. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-28 00:49:10 UTC
From: Jim Shorney
Topic: 2254 Message: 2261

Roger,

You are correct about the PIN diodes, they are in another area. You could still have dirty contacts on the headphone jack, or Molex pin connectors. You didn't mention if you checked AM audio - the audio path is switched by the mode switch between the product detector for SSB/CW/RTTY and the AM detector. If AM audio is normal, you may have a problem in the product detector area, or perhaps the mode switch needs cleaning. If Am audio is also low, look at the mode switch and the audio chain following that, or possibly a fault with T1102. Normal S-Meter readings suggest that everything ahead of T1102 is OK.

My experience with audio PA ICs in general is that they are either good or bad, so the fact that you have audio at all says that the IC is probably good. After checking for dirty/oxidized contacts, I think I would look at electrolytic capacitors in the Q1113/U1101 circuit area. And don't overlook a possible fault with the volume control itself, or the possibility of a mod by a previous owner.

Hope this helps.

73

-Jim

On Mon, 27 Jul 2009 09:38:58 -0500, Roger White wrote:

>Unfortunately, I don't have any headphones. The TR7 that has the low audio had been repaired for bad PIN diodes and was otherwise looked all over and seems to be OK as far as Pout, sensitivity, etc. I am not sure it had any boards pulled and reseated. Maybe not, if the problem was with the PIN diodes, since I think they are on the a small board that does not plug into any large connectors. Both have very similar S-meter readings across all bands 10 to 80 meters. When both are on the same external speaker, the same low audio is apparent on the TR7 that has the low audio on its internal speaker. The low audio is for all modes, CW, SSB, etc.
>
>Thanks!
>
>Roger W5RDW
> ----- Original Message -----
> From: Jim Shorney
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, July 26, 2009 5:27 PM
> Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting
>
>
> On Sun, 26 Jul 2009 17:01:50 -0500, Roger White wrote:
>

> >I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?
>
> The first thing to do before you start digging in would be to remove and
> re-seat all the boards. As these radios age, oxidized Molex pin connectors
> start to become a problem. Could also be oxidized switching contacts in the
> headhphone or external speaker jacks.
>
> Are the S-Meter readings about the same on both radios? Does the problem exist
> in only one or two modes, or does it follow all modes? Is the audio normal with
> headphones or an external speaker? Characterising how the radio operates under
> various conditions compared to the good sample will help isolate the problem
> area.
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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>
>[Non-text portions of this message have been removed]
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>

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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

2262. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-28 01:31:12 UTC
From: Roger White
Topic: 2254 Message: 2262

Thanks, Jim for a lot of interesting areas to look at. I will follow thru on these.

The radio seems to work just fine otherwise. Yes, I did try the AM mode but did not spend anytime on it other than switch to it once. I will go back and look at it in more detail.

Roger W5RDW
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, July 27, 2009 7:49 PM
Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Roger,

You are correct about the PIN diodes, they are in another area. You could still have dirty contacts on the headphone jack, or Molex pin connectors. You didn't mention if you checked AM audio - the audio path is switched by the mode switch between the product detector for SSB/CW/RTTY and the AM detector. If AM audio is normal, you may have a problem in the product detector area, or perhaps the mode switch needs cleaning. If Am audio is also low, look at the mode switch and the audio chain following that, or possibly a fault with T1102. Normal S-Meter readings suggest that everything ahead of T1102 is OK.

My experience with audio PA ICs in general is that they are either good or bad, so the fact that you have audio at all says that the IC is probably good. After checking for dirty/oxidized contacts, I think I would look at electrolytic capacitors in the Q1113/U1101 circuit area. And don't overlook a possible fault with the volume control itself, or the possibility of a mod by a previous owner.

Hope this helps.

73

-Jim

On Mon, 27 Jul 2009 09:38:58 -0500, Roger White wrote:

>Unfortunately, I don't have any headphones. The TR7 that has the low audio had been repaired for bad PIN diodes and was otherwise looked all over and seems to be OK as far as Pout, sensitivity, etc. I am not sure it had any boards pulled and reseated. Maybe not, if the problem was with the PIN diodes, since I think they are on the a small board that does not plug into any large connectors. Both have very similar S-meter readings across all bands 10 to 80 meters. When both are on the same external speaker, the same low audio is apparent on the TR7 that has the low audio on its internal speaker. The low audio is for all modes, CW, SSB, etc.
>

>Thanks!
>
>Roger W5RDW
> ----- Original Message -----
> From: Jim Shorney
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, July 26, 2009 5:27 PM
> Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting
>
>
> On Sun, 26 Jul 2009 17:01:50 -0500, Roger White wrote:
>
> >I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?
>
> The first thing to do before you start digging in would be to remove and
> re-seat all the boards. As these radios age, oxidized Molex pin connectors
> start to become a problem. Could also be oxidized switching contacts in the
> headhphone or external speaker jacks.
>
> Are the S-Meter readings about the same on both radios? Does the problem exist
> in only one or two modes, or does it follow all modes? Is the audio normal with
> headphones or an external speaker? Characterising how the radio operates under
> various conditions compared to the good sample will help isolate the problem
> area.
>
> -Jim
>
> --
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>
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>
>[Non-text portions of this message have been removed]

>
>

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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

2263. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-28 02:43:54 UTC
From: Richard Knoppow
Topic: 2254 Message: 2263

```
----- Original Message -----
From: "Roger White" <rwhitetexas@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 27, 2009 6:31 PM
Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max.
volume setting

> Thanks, Jim for a lot of interesting areas to look at. I
> will follow thru on these.
>
> The radio seems to work just fine otherwise. Yes, I did
> try the AM mode but did not spend anytime on it other than
> switch to it once. I will go back and look at it in more
> detail.
>
> Roger W5RDW
> ----- Original Message -----
> From: Jim Shorney
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, July 27, 2009 7:49 PM
> Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max.
> volume setting
>
>
> Roger,
>
> You are correct about the PIN diodes, they are in another
> area. You could still
> have dirty contacts on the headphone jack, or Molex pin
> connectors. You didn't
> mention if you checked AM audio - the audio path is
> switched by the mode switch
> between the product detector for SSB/CW/RTTY and the AM
> detector. If AM audio
> is normal, you may have a problem in the product detector
> area, or perhaps the
> mode switch needs cleaning. If Am audio is also low, look
> at the mode switch
> and the audio chain following that, or possibly a fault
> with T1102. Normal
> S-Meter readings suggest that everything ahead of T1102
> is OK.
>
> My experience with audio PA ICs in general is that they
> are either good or bad,
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> so the fact that you have audio at all says that the IC
> is probably good. After
> checking for dirty/oxidized contacts, I think I would
> look at electrolytic
> capacitors in the Q1113/U1101 circuit area. And don't
> overlook a possible fault
> with the volume control itself, or the possibility of a
> mod by a previous
> owner.
>
> Hope this helps.
>
> 73

Since you have two of these guys, one good and one bad,
you can do comparitive measurements in the likely areas and
see what is different. This is a very powerful method of
trouble shooting. Look at both AC and DC voltages. If you
have a decent scope use that.
Also, someone mentioned the headphone jack. Even if you
don't have a pair of phones you can work the jack with any
plug that will fit. That will sometimes clear a dirty
normaling contact. Also, just measure the voltage at the
jack.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2264. Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-28 02:53:12 UTC
From: Roger White
Topic: 2254 Message: 2264

Very good ideas indeed!. Many thanks. Yes, I will compare both of them.

I do not have a scope, but think I can get one on loan from our ham club.

Roger W5RDW

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Monday, July 27, 2009 9:43 PM
Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max. volume setting

----- Original Message -----
From: "Roger White" <rwhitetexas@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 27, 2009 6:31 PM
Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max.
volume setting

> Thanks, Jim for a lot of interesting areas to look at. I
> will follow thru on these.
>
> The radio seems to work just fine otherwise. Yes, I did
> try the AM mode but did not spend anytime on it other than
> switch to it once. I will go back and look at it in more
> detail.
>
> Roger W5RDW
> ----- Original Message -----
> From: Jim Shorney
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, July 27, 2009 7:49 PM
> Subject: Re: [DrakeRadio] TR7A Low Receive Audio at max.
> volume setting
>
>
> Roger,
>
> You are correct about the PIN diodes, they are in another
> area. You could still
> have dirty contacts on the headphone jack, or Molex pin
> connectors. You didn't
> mention if you checked AM audio - the audio path is
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> between the product detector for SSB/CW/RTTY and the AM
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> is normal, you may have a problem in the product detector
> area, or perhaps the
> mode switch needs cleaning. If Am audio is also low, look
> at the mode switch
> and the audio chain following that, or possibly a fault
> with T1102. Normal
> S-Meter readings suggest that everything ahead of T1102
> is OK.
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> My experience with audio PA ICs in general is that they
> are either good or bad,
> so the fact that you have audio at all says that the IC
> is probably good. After
> checking for dirty/oxidized contacts, I think I would
> look at electrolytic
> capacitors in the Q1113/U1101 circuit area. And don't
> overlook a possible fault
> with the volume control itself, or the possibility of a
> mod by a previous
> owner.
>
> Hope this helps.
>
> 73

Since you have two of these guys, one good and one bad,
you can do comparitive measurements in the likely areas and
see what is different. This is a very powerful method of
trouble shooting. Look at both AC and DC voltages. If you
have a decent scope use that.
Also, someone mentioned the headphone jack. Even if you
don't have a pair of phones you can work the jack with any
plug that will fit. That will sometimes clear a dirty
normaling contact. Also, just measure the voltage at the
jack.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

2265. PA's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-30 08:29:17 UTC
From: Victor Waddington
Topic: 2265 Message: 2265

Hi
Can anyone tell me if a 6JB6 can be paired with a 6JB6A in a T-4XC without problems?

Vic

2266. Re: PA's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-30 12:21:58 UTC
From: tnham63
Topic: 2265 Message: 2266

No problem at all Vic. Been running mine that way for over 4 years now ever since I got them from Antique Electronic Supply. The only difference I think is that the "A" has a quicker heater warm up time.
73
WINK
WA8KOQ
....
> Hi
> Can anyone tell me if a 6JB6 can be paired with a 6JB6A in a T-4XC without problems?
>
> Vic
>

2267. Re: [DrakeRadio] Re: PA's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-30 13:51:03 UTC
From: g4jss@tiscali.co.uk
Topic: 2265 Message: 2267

Much obliged Wink.

Wasn't sure if there were different internal connections on each tube which may have involved altering pin layout.

Have just ordered a couple of 6JB6A's from Antique at quite an amazing price (cheap) but there is a single 6JB6A on Ebay (NOS) and the guy also has a NOS 6JB6. Both of these are far less than what I can buy them here - including shipping but wasn't sure if they could be mixed. Might as well get a couple of spares whilst they are still available.

Tnx agan

Vic

Earn money when you recycle with Tiscali - http://www.tiscali.co.uk/recycle

---

[Non-text portions of this message have been removed]

2268. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-31 16:18:45 UTC
From: Victor Waddington
Topic: 855 Message: 2268

Hi
Can anyone tell me the make and part No. of the 4 socket(with hole for male locator pin) female connector for a battery to the TR7. The No. I have in the manual is S-404-cct (Cinch- Jones) but I understand this No. has now changed.
I have searched Cinch Jones, Molex etc but don't seem to come up with the right part.
I seem to be making a hash of things so accurate info would definitely help.

Vic
G4JSS

2269. RE: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-31 16:21:57 UTC
From: Jim Chaggaris
Topic: 855 Message: 2269

Vic,

I got the right part number and ordered it from Mouser.

Best Regards,

Jim

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Victor Waddington
Sent: Friday, July 31, 2009 11:19 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR7

Hi
Can anyone tell me the make and part No. of the 4 socket(with hole for male locator pin) female connector for a battery to the TR7. The No. I have in the manual is S-404-cct (Cinch- Jones) but I understand this No. has now changed.
I have searched Cinch Jones, Molex etc but don't seem to come up with the right part.
I seem to be making a hash of things so accurate info would definitely help.

Vic
G4JSS

[Non-text portions of this message have been removed]

2271. RE: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-31 16:35:38 UTC
From: Jim Chaggaris
Topic: 855 Message: 2271

Sorry,

The link was incorrect.

The part #38541-8404

Best Regards,

Jim

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Friday, July 31, 2009 11:22 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] TR7

Vic,

I got the right part number and ordered it from Mouser.

Best Regards,

Jim

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of Victor Waddington
Sent: Friday, July 31, 2009 11:19 AM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] TR7

Hi
Can anyone tell me the make and part No. of the 4 socket(with hole for male locator pin) female connector for a battery to the TR7. The No. I have in the manual is S-404-cct (Cinch- Jones) but I understand this No. has now changed.
I have searched Cinch Jones, Molex etc but don't seem to come up with the right part.
I seem to be making a hash of things so accurate info would definitely help.

Vic
G4JSS

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2272. RE: [DrakeRadio] TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-07-31 17:42:45 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2272

Hi Jim

Thanks for further info and also for all your efforts.

Have a good weekend and will wait to hear from you.

73

Vic
Find out whether your data is safe: Explore the issues at Tiscali Security Centre. - http://www.tiscali.co.uk/security

[Non-text portions of this message have been removed]

2273. Power supply and speaker cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-01 13:31:30 UTC
From: Forrest Plumstead
Topic: 2273 Message: 2273

I am building my own cabinet. I am using 3/4" Plywood. The AC-4 measures 10" long so I cut my base 12" long. The original idea had been to attach the sides to the side of the base leaving 1" clearance on each side of the power supply. Well . . . "The best laid plans of mice and men . . ." the sides are going on top of the base cutting my clearance to 1/4" per side. Here is my question: Would a muffin fan on top, be unnecessary over kill, or would the reduction in clearance produce more heat and need cooling? There are pictures of the first mock up @ http://forrest.3h.com/AC-3%20PS%20cabinet.html Thanks in advance for any help.
73s
Forrest WB5HQO
--
Forrest Plumstead fplum1@...
PLUMSTEAD-L List master
http://lists.rootsweb.com/index/surname/p/plumstead.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Military Kool Lynx: http://geocities.com/fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
Photos: http://myspace.com/fplum7755

[Non-text portions of this message have been removed]

2274. Re: [DrakeRadio] Power supply and speaker cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-01 16:54:09 UTC
From: g4jss@tiscali.co.uk
Topic: 2273 Message: 2274

Hi

If you have got some board left, also patience, why not build another to the same spec as the the MS-4 ? If you build a cabinet with L 11.75" x W 10.75" x H 5.5" - these are internal measurements so add .75" to all the dimensions for external measurements with your 3/4 board.

It will be much easier to fit a speaker if you leave out the front panel, find a piece of grill meshing (you can spray that up) and hey presto!

Cheers

Vic
Find out whether your data is safe: Explore the issues at Tiscali Security Centre. - http://www.tiscali.co.uk/security

[Non-text portions of this message have been removed]

2275. Fw: TR7A Low Receive Audio at max. volume setting...Update 8/3/2009

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-03 21:59:14 UTC
From: Roger White
Topic: 2275 Message: 2275

I have narrowed down the problem in my TR7A with low audio. Since I have another TR7 that is working correctly (nice loud audio at max Audio Gain setting), I started to swap boards that were easily swapped (no unsoldering of cables, wires...). I first swapped the 2nd IF/AGC Board with no improvement. I then swapped the IF Selectivity board with no improvements. Then I swapped the Passband Tuning Reference Assembly. I then noticed the low audio immediately became good, loud audio and the other TR7 (the good one) had low audio with the board that came out of the low audio TR7. . Well I am making progress. I need to next see if I can determine if this board is not adjusted properly. I have the Service Manual for the TR7 so maybe that will shed some light. I am not yet ready to tweak coils, pots, etc.....!

Roger W5RDW
Murphy, Texas
----- Original Message -----
From: Roger White
To: DrakeRadio@yahoogroups.com
Sent: Sunday, July 26, 2009 5:01 PM
Subject: TR7A Low Receive Audio at max. volume setting

I have two identical TR7A transceivers. When both are receiving with their volume controls set at maximum ON setting (all other controls are identically set between the rigs), one TR7A is noticeably lower in audio than the other. I am listening on their internal speakers. Could there be a problem with the SL61545 audio amp or a component around the part is bad or failing?

Thanks and 73,

Roger W5RDW
Murphy, Texas

[Non-text portions of this message have been removed]

2276. Re: [DrakeRadio] Fw: TR7A Low Receive Audio at max. volume setting...Update 8/3/2009

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 00:22:57 UTC
From: Jim Shorney
Topic: 2275 Message: 2276

On Mon, 03 Aug 2009 16:59:14 -0500, Roger White wrote:

>Then I swapped the Passband Tuning Reference Assembly. I then noticed the low audio immediately became good

Interesting. I wonder if it has something to do with BFO or some other oscillator injection level? Thanks for sharing that info, Roger.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2277. Re: [DrakeRadio] Fw: TR7A Low Receive Audio at max. volume setting...Update 8/3/2009

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 00:28:36 UTC
From: Richard Knoppow
Topic: 2275 Message: 2277

----- Original Message -----
From: "Roger White" <rwhitetexas@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 03, 2009 2:59 PM
Subject: [DrakeRadio] Fw: TR7A Low Receive Audio at max.
volume setting...Update 8/3/2009

>I have narrowed down the problem in my TR7A with low audio.
>Since I have another TR7 that is working correctly (nice
>loud audio at max Audio Gain setting), I started to swap
>boards that were easily swapped (no unsoldering of cables,
>wires...). I first swapped the 2nd IF/AGC Board with no
>improvement. I then swapped the IF Selectivity board with
>no improvements. Then I swapped the Passband Tuning
>Reference Assembly. I then noticed the low audio
>immediately became good, loud audio and the other TR7 (the
>good one) had low audio with the board that came out of the
>low audio TR7. . Well I am making progress. I need to next
>see if I can determine if this board is not adjusted
>properly. I have the Service Manual for the TR7 so maybe
>that will shed some light. I am not yet ready to tweak
>coils, pots, etc.........!
>
> Roger W5RDW
> Murphy, Texas

Again, since you have one good one and one bad one you
can compare levels at appropriate points on the boards
(assuming the test points are reachable). That should be a
big help in isolating the problem. Check for both AC and DC.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2278. [DrakeRadio] Fw: TR7A Low Receive Audio ....Sort of non technical solution .....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 01:49:36 UTC
From: Roger White
Topic: 2278 Message: 2278

I got brave and took out the old trusty tweaker and stared at the 5 tunable coils I could easily see on the edge of the Passband Tuning Reference Assembly. They looked too tempting to just leave alone and first read the manual. I was not going to turn them more than one turn anyway before I read the manual. I started by chance at the coil on the right (L1012, the front panel is toward me). I tweaked it about 1/2 turn. The audio level went down. I turned it back and then the other way and the audio level went up. I went to the next one L1011, then L1009, then L1001 and finally L1006 until the audio level was much louder (with the calibrator on and also just listening at the noise level). L1012 had the greatest effect and I guess it was mistuned the most. I had both radios into an antenna thru a switch and set both radios identically as far as the front panel knobs. The AF gain was at 12 o'clock. Now the audio was at best I could tell identical for both radios (I also listened to the 14.300 MHz net which is always on) and both radios were the same volume at identical front panel settings. So far, I have not screwed up anything that I can tell (as far as the received audio is concerned). I never turned any coil slug more than 1 turn, L1012 was turned the most. The others were just touched up slightly. On down the road, I will get more technical, read the service manual and go thru the alignment procedure when I have nothing else better to do. I did not touch the little tunable cap C1030, which tunes the 8.050 MHz signal. Best I wait until I have a counter set up. I also could never find L1011 or L1012 on the schematic. I did find L1102 and L1101. Guess they labeled them wrong.

Roger W5RDW
Murphy, Texas

----- Original Message -----
From: "Roger White" <rwhitetexas@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 03, 2009 2:59 PM
Subject: [DrakeRadio] Fw: TR7A Low Receive Audio at max.
volume setting...Update 8/3/2009

>I have narrowed down the problem in my TR7A with low audio.
>Since I have another TR7 that is working correctly (nice
>loud audio at max Audio Gain setting), I started to swap
>boards that were easily swapped (no unsoldering of cables,
>wires...). I first swapped the 2nd IF/AGC Board with no
>improvement. I then swapped the IF Selectivity board with
>no improvements. Then I swapped the Passband Tuning
>Reference Assembly. I then noticed the low audio
>immediately became good, loud audio and the other TR7 (the
>good one) had low audio with the board that came out of the
>low audio TR7. . Well I am making progress. I need to next
>see if I can determine if this board is not adjusted
>properly. I have the Service Manual for the TR7 so maybe
>that will shed some light. I am not yet ready to tweak

>coils, pots, etc.....!
>
> Roger W5RDW
> Murphy, Texas

Again, since you have one good one and one bad one you
can compare levels at appropriate points on the boards
(assuming the test points are reachable). That should be a
big help in isolating the problem. Check for both AC and DC.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

On Mon, 03 Aug 2009 16:59:14 -0500, Roger White wrote:

>Then I swapped the Passband Tuning Reference Assembly. I then noticed the low audio immediately became good

Interesting. I wonder if it has something to do with BFO or some other oscillator injection level? Thanks for sharing that info, Roger.

73

-Jim

[Non-text portions of this message have been removed]

2279. Re: [DrakeRadio] Fw: TR7A Low Receive Audio ....Sort of non technical solution .....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 02:19:13 UTC
From: Jim Shorney
Topic: 2278 Message: 2279

On Mon, 03 Aug 2009 20:49:36 -0500, Roger White wrote:

> L1011, then L1009, then L1001 and finally L1006 until the audio level was much louder

L1001 is the 40 MHz oscillator adjust. That one will need to be set accurately.
Also L1005, the 13.695 adjustment.

I'm glad you found the problem, that's good info. Thanks for passing it along.
That radio must have been in the hands of a "golden screwdriver". Now, get into
that service manual and go through the adjustments in the proper sequence! That
is critical to proper operation of the radio, as one improper adjustment can
throw off all the others that follow it. I would suggest starting at the
beginning, and be sure to check the +10v with an accurate voltmeter - the +10v
helps set the character of the whole radio, and will affect other adjustments
down the line. The S-Meter/AGC can be fun too, I did a web page on that one:

http://radiojim.exofire.net/pages/TR7_2IFA.html

I need to revise it again, I have some more data points. But it's a good
start.... If you don't have access to a calibrated signal generator, use the
service manual procedure (or just leave well enough alone if the S-Meter
performance is acceptable). The pedestal adjustment should be checked if you
adjust the +10v regulator.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2280. Re: [DrakeRadio] Fw: TR7A Low Receive Audio ....Sort of non technical solution .....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 02:29:21 UTC
From: Roger White
Topic: 2278 Message: 2280

Ok, thanks Jim. Yes, I will do it right the "second time". Hi Hi.....I just pulled up your web page. Very nice. Thought I had seen all the TR7 sites but will for sure add yours to my list.

In looking at your site, that reminds me one of my TR7A has a very low level LED display. It is the one that has not been toughed by anyone, owned by a former Kahoona at the Drake factory years ago. In looking at it, I can tell it has not been touched as all of the solder joints look as if they were brand new. The other TR7A has a number of tell tell signs of a soldering iron repair/mod here and there.

I also have a L-7 I love, so will read your section on it also.

73, Roger W5RDW

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, August 03, 2009 9:19 PM
Subject: Re: [DrakeRadio] Fw: TR7A Low Receive Audio ....Sort of non technical solution .....

On Mon, 03 Aug 2009 20:49:36 -0500, Roger White wrote:

> L1011, then L1009, then L1001 and finally L1006 until the audio level was much louder

L1001 is the 40 MHz oscillator adjust. That one will need to be set accurately.
Also L1005, the 13.695 adjustment.

I'm glad you found the problem, that's good info. Thanks for passing it along.
That radio must have been in the hands of a "golden screwdriver". Now, get into
that service manual and go through the adjustments in the proper sequence! That
is critical to proper operation of the radio, as one improper adjustment can
throw off all the others that follow it. I would suggest starting at the
beginning, and be sure to check the +10v with an accurate voltmeter - the +10v
helps set the character of the whole radio, and will affect other adjustments
down the line. The S-Meter/AGC can be fun too, I did a web page on that one:

http://radiojim.exofire.net/pages/TR7_2IFA.html

I need to revise it again, I have some more data points. But it's a good
start.... If you don't have access to a calibrated signal generator, use the
service manual procedure (or just leave well enough alone if the S-Meter
performance is acceptable). The pedestal adjustment should be checked if you
adjust the +10v regulator.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

2281. Re: [DrakeRadio] Fw: TR7A Low Receive Audio ....Sort of non technical solution .....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-04 02:38:55 UTC
From: Jim Shorney
Topic: 2278 Message: 2281

On Mon, 03 Aug 2009 21:29:21 -0500, Roger White wrote:

>Ok, thanks Jim. Yes, I will do it right the "second time". Hi Hi.....I just pulled up your web page. Very nice. Thought I had seen all the TR7 sites but will for sure add yours to my list.

Thanks, Roger. I guess it's sort of "under the radar" still. I've got more stuff planned, some of which has already been posted to the Drakelist reflector/online forum in text form. As time permits. I need about a 6 month vacation....

>In looking at your site, that reminds me one of my TR7A has a very low level LED display.

I think there were variations in the display brighness over the production life, plus they tend to lose brightness as the number of hours goes up. My R7A is brighter than some of the old TR7s I have seen. Have seen the replacement LED units made by Willi DF4NW? The blue one I put in my TR7 looks really sharp - the pics don't do it justice.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2282. Drake TR-7A for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-07 23:14:34 UTC
From: lratcliff lratcliff
Topic: 2282 Message: 2282

This Drake TR-7A is a TR-7 that was factory upgraded to an A. It does have the 3 piece back panel.

Included is the TR-7A, a PS-7 power supply, FA-7 cooling fan, 300hz CW filter, 6Khz AM filter, 1.8Khz SSB filter, and 7077 desk mic. Everything works great. Only blimishes I can find is a small scratch near the mic connector, and a scuff on the top, where another piece of equipment was sat on top of it.

Im asking $650 obo plus shipping. We are looking at abt 51# before packing. I will consider local pickup near Pulaski, VA.

Here are the photos.
http://www.flickr.com/photos/41218546@N07/sets/72157621975084868/ The top looks better than it shows in the pic.

Lee Ratcliff
KC4ART

[Non-text portions of this message have been removed]

2283. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-09 19:17:47 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2283

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2284. Restoration for cabinets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-10 00:44:14 UTC
From: jshea_n4dsp
Topic: 2284 Message: 2284

Does someone do restoration of Drake Covers?

thanks

john

2285. Re: [DrakeRadio] Restoration for cabinets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-10 01:45:54 UTC
From: rrkrr
Topic: 2284 Message: 2285

The company that originally painted the Drake cabinets is still in
business in Miamisburg, OH::

For those who are interested in original Drake paint. That is a true
baked powder coat finish, two part system and much more durable than a
spray can job. The place to call is Hartzell Mfg
<http://www.hartzellmfg.com/>. in Miamisburg, OH at 513-859-5955.
vickroy@... <mailto:vickroy@...> They can
repaint your cabinets to like new condition.

Bob
K4ERR

"They are the arguments that kings have made for enslaving the people in
all ages of the world. You will find that all the arguments in favor of
king-craft were of this class; they always bestrode the necks of the
people, not that they wanted to do it, but because the people were
better off for being ridden."

Abraham Lincoln, July 10, 1858

[Non-text portions of this message have been removed]

2286. For Sale: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-10 14:43:51 UTC
From: jfelts13
Topic: 2286 Message: 2286

Early Drake 2A. This is a analog tube reciever covering 3.5-4.1, 6.9-7.5, 13.9-14 5, 20.9-21.5, and 28.5-29.5 MHZ in addition to 7 additional empty slots. Just putting crystals in empty slots you can get the WARC Bands. The bandwidth values are 4.8, 2.4 khz-6db. Features: 1/4 inchheadphone jack, S-Meter, RF Gain, AVC SLOW/FAST, Preselector, Mute Line, BFO, Dial Set, Diode/Productor Detector, NL. Requires a speaker. 12 x 7 x 9 inches 14.5 Lbs. 120 VAC 60 Hz 40 watts. Early serial number 519.

Also includes new can capacitor from Hayseed Sales, has all new tubes. Fair shape, but could use a tune up. copper chassis in fair shape, needs a cleaning. Listening to 40m 3905 Century Club net as I type this. Due to its age unit is sold ASIS!

Would like $90 plus shipping.

Jerry - NR5A

2287. Re: [DrakeRadio] For Sale: Drake 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-10 16:51:57 UTC
From: Bruce
Topic: 2286 Message: 2287

Hello Jerry,

I am interested in your Drake 2A.

How does the front panel look?

Do you have any photos?

What would shipping be to 44312?

Thank you,

Bruce WA8TNC
==========
jfelts13 wrote:
>
> Early Drake 2A. This is a analog tube reciever covering 3.5-4.1,
> 6.9-7.5, 13.9-14 5, 20.9-21.5, and 28.5-29.5 MHZ in addition to 7
> additional empty slots. Just putting crystals in empty slots you can get
> the WARC Bands. The bandwidth values are 4.8, 2.4 khz-6db. Features: 1/4
> inch headphone jack, S-Meter, RF Gain, AVC SLOW/FAST, Preselector, Mute
> Line, BFO, Dial Set, Diode/Productor Detector, NL. Requires a speaker.
> 12 x 7 x 9 inches 14.5 Lbs. 120 VAC 60 Hz 40 watts. Early serial number
> 519.
>
> Also includes new can capacitor from Hayseed Sales, has all new tubes.
> Fair shape, but could use a tune up. copper chassis in fair shape, needs
> a cleaning. Listening to 40m 3905 Century Club net as I type this. Due
> to its age unit is sold ASIS!
>
> Would like $90 plus shipping.
>
> Jerry - NR5A

2288. What Shure 444?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-12 22:25:21 UTC
From: jshea_n4dsp
Topic: 2288 Message: 2288

I have been told the Shure 444 is the mic for the Drakes. Is this correct? Dual Impedance? And what plug does the T4XB need for this mic?

Thank You

john

2289. Re: [DrakeRadio] What Shure 444?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-13 03:23:27 UTC
From: Jim Shorney
Topic: 2288 Message: 2289

On Wed, 12 Aug 2009 22:25:21 -0000, jshea_n4dsp wrote:

>I have been told the Shure 444 is the mic for the Drakes. Is this correct? Dual Impedance?

Depends on what you want to do. The 444 is an excellent, natural sounding mic for general operation. For contesting an DXing, a properly tweaked D-104 (non-amplified) will give a little bit more "edge" to your audio. I've used both, and wouldn't turn down a 444.

Dual impedance (set to high impedance) or high impedance only will work.

>And what plug does the T4XB need for this mic?

A .206 three-conductor. Looks like a 1/4" stereo plug, but isn't - it measures .206 OD instead of .250. They are usually available from some of the internet Drake gurus, or are often seen on eBay advrertised as "Collins" plugs. If you have a good local parts jobber, they may be able to get you one as well.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2290. Re: [DrakeRadio] What Shure 444?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-13 04:57:55 UTC
From: Richard Knoppow
Topic: 2288 Message: 2290

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, August 12, 2009 8:23 PM
Subject: Re: [DrakeRadio] What Shure 444?

> On Wed, 12 Aug 2009 22:25:21 -0000, jshea_n4dsp wrote:
>
>>I have been told the Shure 444 is the mic for the Drakes.
>>Is this correct? Dual Impedance?
>
> Depends on what you want to do. The 444 is an excellent,
> natural sounding mic
> for general operation. For contesting an DXing, a properly
> tweaked D-104
> (non-amplified) will give a little bit more "edge" to your
> audio. I've used
> both, and wouldn't turn down a 444.
>
> Dual impedance (set to high impedance) or high impedance
> only will work.
>
>
>>And what plug does the T4XB need for this mic?
>
> A .206 three-conductor. Looks like a 1/4" stereo plug, but
> isn't - it measures
> .206 OD instead of .250. They are usually available from
> some of the internet
> Drake gurus, or are often seen on eBay advrertised as
> "Collins" plugs. If you
> have a good local parts jobber, they may be able to get
> you one as well.
>
> 73
>
> -Jim

The military designator is PJ 068. I was able to find
some by doing a Google search for this.
http://www.flyaas.com/acatalog/Online_Catalogue_PLUGS_JACKS_20.html

http://www.airsource1.com/catalog.cgi?c=HEADSET%20PARTS&i=ELESWC-480

http://www.sonetronics.com/products_detail.php?intIdProduct=59

Above does not seem to list a price.

I thought Switchcraft still made these but the only .206
plug I could find on their site is a mono (sleeve and tip)
type.
My T-4XB was modified some time in its life with a
standard 1/4" RTS stereo jack. This is a great convenience
because plugs, even right angle ones, are readily available
and cheap. It does not look like a difficult job to do.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2291. Re: [DrakeRadio] What Shure 444?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-13 05:04:19 UTC
From: Jim Shorney
Topic: 2288 Message: 2291

On Wed, 12 Aug 2009 21:57:55 -0700, Richard Knoppow wrote:

> The military designator is PJ 068.

Yeah, I've got a bunch of those stashed around here somewhere.... Never used one. Odd looking devils, they don't look like the SwitchCraft .206 at all, but they do work.

> My T-4XB was modified some time in its life with a
>standard 1/4" RTS stereo jack. This is a great convenience
>because plugs, even right angle ones, are readily available
>and cheap. It does not look like a difficult job to do.

It's not at all. I think I converted an old Galaxy once. I suspect the rationale behind using the .206 connector was to prevent the op from accidentally plugging phones or CW key into the Mic jack. I've kept mine original, the plugs aren't that hard to find. Usually a query on the Drakelist reflector will turn up one or two.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2292. Re: What Shure 444?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-15 21:44:07 UTC
From: Fred
Topic: 2288 Message: 2292

they are still shown in teh Allied Electronics catalogue .

Mfr Part#: 237
Allied Stock#: 932-0237

Standard Pricing:
1 - 9 $8.860
10 - 24 $7.760
25 - 49 $6.890
50 - 99 $6.200
100+ $5.640

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Wed, 12 Aug 2009 22:25:21 -0000, jshea_n4dsp wrote:
>
> >I have been told the Shure 444 is the mic for the Drakes. Is this correct? Dual Impedance?
>
> Depends on what you want to do. The 444 is an excellent, natural sounding mic
> for general operation. For contesting an DXing, a properly tweaked D-104
> (non-amplified) will give a little bit more "edge" to your audio. I've used
> both, and wouldn't turn down a 444.
>
> Dual impedance (set to high impedance) or high impedance only will work.
>
>
> >And what plug does the T4XB need for this mic?
>
> A .206 three-conductor. Looks like a 1/4" stereo plug, but isn't - it measures
> .206 OD instead of .250. They are usually available from some of the internet
> Drake gurus, or are often seen on eBay advrertised as "Collins" plugs. If you
> have a good local parts jobber, they may be able to get you one as well.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn

for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2293. Drake Dial Filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-16 15:36:50 UTC
From: jshea_n4dsp
Topic: 2293 Message: 2293

Hello.
Like to hear everyone's suggestions on what they use and where they purchase the dial and S meter filters for the Drakes. Not only the blue filters but the white as well. And any other suggestions that would be helpful in changing mine out.

Thank You.

john

2294. Re: [DrakeRadio] Drake Dial Filters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-16 17:49:02 UTC
From: Jim Shorney
Topic: 2293 Message: 2294

On Sun, 16 Aug 2009 15:36:50 -0000, jshea_n4dsp wrote:

>Like to hear everyone's suggestions on what they use and where they purchase the dial and S meter filters for the Drakes. Not only the blue filters but the white as well. And any other suggestions that would be helpful in changing mine out.

Hi John,

Well, in my 7-Line, I just replaced the dial lamps with blue LEDs. Problem solved. In my C-line, I used the plastic colored Roledex card covers, but I don't know if they are still available. There's also been some discussion lately of the white background having yellowed over the years, requiring a repaint to make it pure white again, as being a root cause of the greenishness.

You can probably find every answer there ever was to this question in the Drakelist archive.

http://www.mail-archive.com/search?l=drakelist%40zerobeat.net&q=blue+filters

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2295. Group member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-17 14:35:55 UTC
From: Victor Waddington
Topic: 2295 Message: 2295

Hello all
Anybody have any info on Garey Barrel?
Last I heard (several weeks ago) he was in in hospital for surgery of some kind but haven't heard anything since.
Kinda miss his presence and unstinting advice.
73
Vic

2296. Re: [DrakeRadio] Group member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-17 19:59:09 UTC
From: Richard Knoppow
Topic: 2295 Message: 2296

----- Original Message -----
From: "Victor Waddington" <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 17, 2009 7:35 AM
Subject: [DrakeRadio] Group member

> Hello all
> Anybody have any info on Garey Barrel?
> Last I heard (several weeks ago) he was in in hospital
> for surgery of some kind but haven't heard anything since.
> Kinda miss his presence and unstinting advice.
> 73
> Vic
>
There have been a series of messages on the "other"
Drake list at Zerobeat.

http://mailman.zerobeat.net/mailman/listinfo/drakelist

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2297. Re: [DrakeRadio] Group member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-17 20:03:34 UTC
From: Richard Knoppow
Topic: 2295 Message: 2297

----- Original Message -----
From: "Victor Waddington" <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 17, 2009 7:35 AM
Subject: [DrakeRadio] Group member

> Hello all
> Anybody have any info on Garey Barrel?
> Last I heard (several weeks ago) he was in in hospital
> for surgery of some kind but haven't heard anything since.
> Kinda miss his presence and unstinting advice.
> 73
> Vic
>
Not sure the URL I sent will work. Try just
http://zerobeat.net/

You should be able to find the archives from there.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2298. Cleaning the Pots

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-18 01:31:06 UTC
From: jshea_n4dsp
Topic: 2298 Message: 2298

Tomorrow the wafer switches on my R4B are going to be cleaned and lubed thanks to the excellent article by Mark Gilger, WB0IQK and while I have the covers off I just as well may do the PTO because someone oiled the nylon gears thinking it would make it "silky smooth"! Being a clock repairman I see this all the time in Grandfather Clocks. The only way to clean it is a total dismantle of the movement and immersion in a chemical solution.

But my question refers to the pots such as the AF Gain, RF Gain, etc. Back in my novice days in the late 60's we used "pot spray cleaners". Is there something out there to clean the pots today or is that considered a bad practice today?

thank you

john

2299. Re: [DrakeRadio] Cleaning the Pots

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-18 14:41:10 UTC
From: Jim Shorney
Topic: 2298 Message: 2299

On Tue, 18 Aug 2009 01:31:06 -0000, jshea_n4dsp wrote:

>But my question refers to the pots such as the AF Gain, RF Gain, etc. Back in my novice days in the late 60's we used "pot spray cleaners". Is there something out there to clean the pots today or is that considered a bad practice today?

My usual approach these days is an alcohol flush, followed by a sparing application of Radio Shack contact cleaner with lubricant to keep the wiper lubricated. Be careful with this stuff, it wants to go everywhere and you end up with a film of lubricant in spots that you don't need it. A modified turkey baster works pretty well as a syringe to get alcohol into the pot. I've been meaning to try this for alcohol delivery, but havn't got a round tuit:

http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=65297

Stiff shafts are another story. A drop of PTFE based oil worked into the shaft sometimes helps. I had one unit that was so bad that I had to completely disassemble the pots, clean and re-lube the shafts with PTFE based grease. They are smooth as silk now. That was a Heath SB-620, if anyone cares.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2300. TR4 - loose wire...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-18 15:07:54 UTC
From: caviloso
Topic: 2300 Message: 2300

Hello!

I am the PU1WJH, QRA Ricardo, of Rio de Janeiro, Brasil.

I have a "Drake TR4" serial 27271, and similarly, more than 16 years did not call the transceiver that was packed.

For over 17 years I am QRT, but I am claiming back the activities of HAM as soon as possible.

However I noticed that there is a "loose wire", white/brown, in the vicinity of V13 (12AX7A), V16 and V2.

Someone could help me, please?

I thank in advance.

73's

PU1WJH
Ricardo

[Non-text portions of this message have been removed]

2301. Re: [DrakeRadio] TR4 - loose wire...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-18 16:52:23 UTC
From: Kris Merschrod
Topic: 2300 Message: 2301

Muinto Bem Ricardo, e Boa Tarde,

Faz muinto tempo então melhor em Ingles! :>)

If you plug in the radio does it work? The problem may show up that way to identify where it is supposed to be.

These loose wires are a difficult problem. I had one and all I did was to move the wire around at it full length to see which soldering places it could have come from. Then, using a lens (magnifier) I looked to see if there was a broken piece. I tested that with a jumper wire.

Another approach is to trace the wire back to where it is still attached and try to guess its use. Very difficult.

One ham sells a CD with all of the wiring photos from Drake Service manuals. His web site is : http://www.k4oah.com/ He (Garey Barrell) is a very nice guy and he helped me via email many times. He is not well, he was in the hospital, but is now recovering.

Here is a URL with a review of those CDs

http://www.eham.net/reviews/detail/8008

I have those from my TR-4cw/rit.

There may be some hams on here who will know exactly what the wire is. You could take a photo and send it too.

73,

Kris KA2OIG
Merschrod
www.merschrod.net/KA2OIG

----- Original Message -----
From: caviloso
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, August 18, 2009 11:07 AM
Subject: [DrakeRadio] TR4 - loose wire...

Hello!

I am the PU1WJH, QRA Ricardo, of Rio de Janeiro, Brasil.

I have a "Drake TR4" serial 27271, and similarly, more than 16 years did not call the transceiver that was packed.

For over 17 years I am QRT, but I am claiming back the activities of HAM as soon as possible.

However I noticed that there is a "loose wire", white/brown, in the vicinity of V13 (12AX7A), V16 and V2.

Someone could help me, please?

I thank in advance.

73's

PU1WJH
Ricardo

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2302. Re: TR4 - loose wire...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-18 20:42:00 UTC
From: w6ou
Topic: 2300 Message: 2302

In my Drake TR-4CW the white/brown wire is connected to V13-1.
If this is disconnected, the transmitter AGC will not work.
When you transmit, the S-meter indicates the transmitter AGC.
Does this meter show any change when you increase your audio
during transmitting?

--- In DrakeRadio@yahoogroups.com, "caviloso" <caviloso@...> wrote:
>
> Hello!
>
> I am the PU1WJH, QRA Ricardo, of Rio de Janeiro, Brasil.
>
>
> I have a "Drake TR4" serial 27271, and similarly, more than 16 years did not call the transceiver that was packed.
>
> For over 17 years I am QRT, but I am claiming back the activities of HAM as soon as possible.
>
> However I noticed that there is a "loose wire", white/brown, in the vicinity of V13 (12AX7A), V16 and V2.
>
>
> Someone could help me, please?
>
>
> I thank in advance.
>
>
>
> 73's
>
>
>
> PU1WJH
> Ricardo
>
>
> [Non-text portions of this message have been removed]
>

2303. TR-4 Front Panel Screws

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-21 14:19:56 UTC
From: qrp17mssb
Topic: 2303 Message: 2303

Are the four screws that hold the front panel to the sub-panel the same as the cabinet screws. I believe the cabinet screws are 6-32 with a black finish. In several photos I have recently been reviewing it appears the front panel screws are 4-40's. Any one know the size (4-40 or 6-32) and the length? McMaster Carr has the screws I just need to know which ones.

Pete N6QW

2304. Garey Barrell K4OAH Update

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-21 17:44:04 UTC
From: xjjb4x4
Topic: 2304 Message: 2304

Hi guys,

Got an update on Garey the other day from his XYL, Carol. Sounds like he is steadily improving but, evidently, had been in ICU longer than expected.

[JB:

Able now to read incoming e-mails, but unable to type my own replies as yet. Out of the Hospital ICU, but in a Rehab Facility for the next few weeks. On the road to recovery. Thanks for your concern and thoughts.

For Garey-K4OAH
Carol (XYL)]

For those who fight on their knees, keep up the good work.
k4oah@...

God bless
73
jb
kg6biw

2305. Re: [DrakeRadio] TR-4 Front Panel Screws

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-21 18:08:07 UTC
From: g4jss@tiscali.co.uk
Topic: 2303 Message: 2305

I don't know the size but the facia screws are much smaller than the case screws.

Cheers

Vic

G4JSS

Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

2306. Re: [DrakeRadio] TR-4 Front Panel Screws

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-21 22:48:12 UTC
From: RadiosRUs
Topic: 2303 Message: 2306

Hi Vic,

Thanks for your reply! It looked like they were smaller but I thought I would ask. Someone on the list offered to send me some. As long as I know the size I have a source other than those offered to me. I know there is about a 1/16 inch spacer between the front panel and the sub-panel thus my question about the length. Figuring 1/16 for the panel plus 1/16 for the spacer makes 1/8 inch figure at least 1/8 inch into the sub-panel so it looks like 1/4 inch in length should do it.

Thank you again.

Cheers and 73's
Pete N6QW

From: g4jss@...
Sent: Friday, August 21, 2009 11:08 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR-4 Front Panel Screws

I don't know the size but the facia screws are much smaller than the case screws.

Cheers

Vic

G4JSS

Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2307. Re: [DrakeRadio] TR-4 Front Panel Screws

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-22 09:54:52 UTC
From: g4jss@tiscali.co.uk
Topic: 2303 Message: 2307

Just taken one off and measured it - you are spot on with 1/4"

Vic

Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

2308. 6JB6 Frustration

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-22 13:54:27 UTC
From: russellhulett
Topic: 2308 Message: 2308

Of four pair 6JB6 I own, only one will load on 15M and 10M.
Only two will load above 40M. I'm beginning to reluctantly think about converting to 6146s, the expense of buying non-performing sweep tubes is becoming an issue for me. Have folks found the 6146 to be less problematic than the 6JB6 sweep tubes?

73, Curt KB5JO

2309. Re: [DrakeRadio] 6JB6 Frustration

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-22 23:23:41 UTC
From: ltaft@charter.net
Topic: 2308 Message: 2309

Try 6GJ5 Its the same tube with the suppressor grid internally connected (I think).
--
Larry Taft K2LT
T and T Measurements
drakerepair.com
800-687-9161

---- russellhulett <rhulett1@...> wrote:
> Of four pair 6JB6 I own, only one will load on 15M and 10M.
> Only two will load above 40M. I'm beginning to reluctantly think about converting to 6146s, the expense of buying non-performing sweep tubes is becoming an issue for me. Have folks found the 6146 to be less problematic than the 6JB6 sweep tubes?
>
> 73, Curt KB5JO
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

2310. TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-23 10:35:51 UTC
From: victorwaddington
Topic: 855 Message: 2310

Hi
Got a problem with TR7. I don't have a cct. dia or a sevice manual.
Problem is this.
I run it from a 30amp PSU to the 4 pin Cinch-Jones next to the fan (I don't have a PS7) and it has always worked OK.
The top right and top left pins are for the high current (Tx) and the bottom two for the Rx.
During the course of a QSO it packed in. Now I am left with a strange situation. If I disconnect the Jones plug my PSU meter shows 13.8v and Nil current - which it should. But even with the rig switched off if I connect it to the PSU the meters on the PSU flicker around 6v and show a current drain of 2 to 3 amps - and the rig is switched off!!
If I connect a supply to the Rx pins only the Rx works fine.
So any ideas why the PSU is OK when disconnected from the rig but goes awry when connected even though the rig is switched off?
Vic

2311. Re: TR4 - loose wire...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-23 17:57:59 UTC
From: caviloso
Topic: 2300 Message: 2311

Hi!

Hello!

Thank you for the kindness of dear HAMs.

The information was very useful.

As the TR4 was unused for 19 years, I decided to do a survey to cold throughout the chassis to prevent bigger problems.

Now, after restoring the electrolytic high voltage source, turn-on the TR4 but only clicks on the speaker.

There were 4 soldering oxiddas and filaments of two tubes (6JB6 & 6BZ6) not lit.

After 4 days of revision could make the TR4 back to work, but only with good yield at 40 and 80 meters.

(I have only one 6EV7 tube, I have no one to replacement...)

Here, in Brasil, We have serious difficult to find tubes.

Thank you again.

73's

Ricardo PU1WJH

[Non-text portions of this message have been removed]

2312. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-23 19:30:20 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2312

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2313. Re: 6JB6 Frustration

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-23 22:18:31 UTC
From: w6ou
Topic: 2308 Message: 2313

Are you replacing pairs of 6JB6 tubes in a T-4X without realignment?
When I replace 6JB6 tubes in my TR-4CW, I always realign the driver
grid and plate adjustments. It makes a big difference on 15 and 10
meter output power especially when I switch between different brand
tubes. After doing those adjustments at low power, I also touch up
those same adjustments at full power. Adjust the final bias current
and the final neutralization also after swapping tubes.

--- In DrakeRadio@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Of four pair 6JB6 I own, only one will load on 15M and 10M.
> Only two will load above 40M. I'm beginning to reluctantly think about converting to 6146s, the expense of buying non-performing sweep tubes is becoming an issue for me. Have folks found the 6146 to be less problematic than the 6JB6 sweep tubes?
>
> 73, Curt KB5JO
>

2314. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-24 17:22:14 UTC
From: querencias
Topic: 855 Message: 2314

You have a low impedance sink somewhere in the Tx section of the TR7 - if I were you I would check the connector, both the plug and the socket then follow the circuit with an ohm-meter to where the resistance is very low - have a feeling that it might be a capacitor

This will be a challenge without a manual - I have mine on a CD and can email you some of the pages - send me your email address

Grant

--- In DrakeRadio@yahoogroups.com, "victorwaddington" <g4jss@...> wrote:
>
> Hi
> Got a problem with TR7. I don't have a cct. dia or a sevice manual.
> Problem is this.
> I run it from a 30amp PSU to the 4 pin Cinch-Jones next to the fan (I don't have a PS7) and it has always worked OK.
> The top right and top left pins are for the high current (Tx) and the bottom two for the Rx.
> During the course of a QSO it packed in. Now I am left with a strange situation. If I disconnect the Jones plug my PSU meter shows 13.8v and Nil current - which it should. But even with the rig switched off if I connect it to the PSU the meters on the PSU flicker around 6v and show a current drain of 2 to 3 amps - and the rig is switched off!!
> If I connect a supply to the Rx pins only the Rx works fine.
> So any ideas why the PSU is OK when disconnected from the rig but goes awry when connected even though the rig is switched off?
> Vic
>

2315. MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-24 21:14:01 UTC
From: jshea_n4dsp
Topic: 2315 Message: 2315

Anyone know the size and ohms of the speaker in the enclosure?
Are they available through Antique Electronic Supply or other
suppliers?

thanks
john

2316. Re: [DrakeRadio] MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-24 21:33:47 UTC
From: Henry Gilmore
Topic: 2315 Message: 2316

I know it is 4 ohms not sure on size but it is close to 5x7.

--- On Mon, 8/24/09, jshea_n4dsp <jshea109@...> wrote:

From: jshea_n4dsp <jshea109@...>
Subject: [DrakeRadio] MS-4 Speaker
To: DrakeRadio@yahoogroups.com
Date: Monday, August 24, 2009, 5:14 PM

Anyone know the size and ohms of the speaker in the enclosure?
Are they available through Antique Electronic Supply or other
suppliers?

thanks
john

[Non-text portions of this message have been removed]

2317. Re: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-24 22:17:38 UTC
From: jshea_n4dsp
Topic: 2315 Message: 2317

Thanks Henry.

john

--- In DrakeRadio@yahoogroups.com, Henry Gilmore <hvg048@...> wrote:
>
> I know it is 4 ohms not sure on size but it is close to 5x7.
>

2318. Re: [DrakeRadio] Re: MS-4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-24 22:44:43 UTC
From: Jim Gerke
Topic: 2315 Message: 2318

Radio Shack used to sell a 5x7 for under $20, I believe. It can be wired for 4, 8, or 16 ohms, and will handle 10 watts of audio power. The RS part number is 40-1261C.

I got one off of the famous auction site several months ago for around $12, new in the box.

73, Jim K5JG

jshea_n4dsp wrote:
> Thanks Henry.
>
> john
>
>
> --- In DrakeRadio@yahoogroups.com, Henry Gilmore <hvg048@...> wrote:
>> I know it is 4 ohms not sure on size but it is close to 5x7.
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

2319. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 07:54:26 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2319

Hello Grant

My email is g4jss@....

Re the fault. The PSU is definitely OK and have also tried on another PSU and get the same fault.

In my ignorance I seem to think that the fault lies between the Jones connector and the on off switch on the rig as the PSU voltage drops to 6v and the PSU meter shows a drain of several amps without the rig being switched on. This only happens on the high current cct. (Tx) If I connect to the Rx cct only the Rx works fine.

Are there any RF decoupling caps associated with the connector and prior to the switch?

I have no idea which pages I would require but bearing in mind the nature of the fault you may be able to assist with that.

Your offer and assistance is very much appreciated.

Vic

G4JSS

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[Non-text portions of this message have been removed]

2320. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 10:59:27 UTC
From: Jim Shorney
Topic: 855 Message: 2320

The TR7 service manual can be found on the internet for free download in a couple of places.

73

-Jim

On Tue, 25 Aug 2009 08:54:26 +0100 (GMT+01:00), g4jss@... wrote:

>
>Hello Grant
>
>My email is g4jss@....
>
>Re the fault. The PSU is definitely OK and have also tried on another PSU and get the same fault.
>
>In my ignorance I seem to think that the fault lies between the Jones connector and the on off switch on the rig as the PSU voltage drops to 6v and the PSU meter shows a drain of several amps without the rig being switched on. This only happens on the high current cct. (Tx) If I connect to the Rx cct only the Rx works fine.
>
>Are there any RF decoupling caps associated with the connector and prior to the switch?
>
>I have no idea which pages I would require but bearing in mind the nature of the fault you may be able to assist with that.
>
>Your offer and assistance is very much appreciated.
>
>Vic
>
>G4JSS
>
>Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc
>
>[Non-text portions of this message have been removed]
>
>

--
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2321. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 15:11:34 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2321

hanks Jim

But where?

Vic

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[Non-text portions of this message have been removed]

2322. RE: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 15:24:35 UTC
From: Steve Finch
Topic: 855 Message: 2322

I have the service manual as a PDF. I would be happy to post it on the web, but the manual is 80 MB ☐ too large for the yahoo group. If someone has a site I can upload it to, I will be happy to upload it.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of g4jss@...
Sent: Tuesday, August 25, 2009 9:12 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: TR7

hanks Jim

But where?

Vic

Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2323. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 15:34:41 UTC
From: lratcliff lratcliff
Topic: 855 Message: 2323

I just sent you a copy of the service manuel to your email

Lee
KC4ART

On 8/25/09, g4jss@... <g4jss@...> wrote:
>
> hanks Jim
>
> But where?
>
> Vic
>
> Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

2324. RE: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 15:37:53 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2324

Hi Steve

Understand what you mean. Grant has very kindly sent me some of it but Yahoo said it was to big and cut it off half way thru.

Going to get back to Grant and explain what happened and hopefully he can send me the bits I need in installments.

Vic

G4JSS

Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc

[Non-text portions of this message have been removed]

2325. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 15:38:02 UTC
From: lratcliff lratcliff
Topic: 855 Message: 2325

Ur Domain rejected it, so Im not sure how to get it to you.

Lee
KC4ART

On 8/25/09, lratcliff lratcliff <lratcliff@...> wrote:
> I just sent you a copy of the service manuel to your email
>
> Lee
> KC4ART
>
> On 8/25/09, g4jss@... <g4jss@...> wrote:
> >
> > hanks Jim
> >
> > But where?
> >
> > Vic
> >
> > Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
>

2326. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 16:05:53 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2326

Hi Lee

Well they may have rejected it but all 179 pages have arrived so guess it's a case of the left hand not knowing what the right hand is doing.

I thank you sincerely for your for the documentation. I'm a li'l bit bewildered by it at the moment but maybe when I get it printed off and have more time to study it things may drop into place.

I thank all of you for your assistance not forgetting |Grant who, although exhausted and had an early start stayed up half the night trying to send me the info,

Again, thanks to all.

Vic

G4JSS

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[Non-text portions of this message have been removed]

2327. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-25 21:29:49 UTC
From: Jim Shorney
Topic: 855 Message: 2327

Can't say for sure. I found them through search engines, and discarded the URLs after I downloaded them. There seemed to be two variants, not the greatest scans, but usable. Start with mods.dk, then head to Google (or your search engine of choice).

I also have the version on CD from Hammanuals, and it is very good. But there are at least two known versions of the service manual.

73

-Jim

On Tue, 25 Aug 2009 16:11:34 +0100 (GMT+01:00), g4jss@... wrote:

>
>hanks Jim
>
>But where?
>
>Vic
>
>Protect your PC with 50% off Norton Security - http://www.tiscali.co.uk/securepc
>
>[Non-text portions of this message have been removed]
>
>

--
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"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2328. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 00:25:46 UTC
From: floydsense
Topic: 855 Message: 2328

<<snip>>
> I also have the version on CD from Hammanuals, and it is very good. But there
> are at least two known versions of the service manual.
>
> 73
>
> -Jim
>
>
<<snip>>

I bought an original late TR7 service manual on eBay some time ago and it included the diagrams and layouts for the various versions of the boards. I mention that only because it was news to me when I received the manual, and there's nothing like having the original photographs and large fold-out diagrams.

73, K8AC

2329. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 00:38:47 UTC
From: Jim Shorney
Topic: 855 Message: 2329

On Thu, 27 Aug 2009 00:25:46 -0000, floydsense wrote:

>I bought an original late TR7 service manual on eBay some time ago and it included the diagrams and layouts for the various versions of the boards. I mention that only because it was news to me when I received the manual, and there's nothing like having the original photographs and large fold-out diagrams.

Got one of those, too (early rev). :) Along with a very nice repro that I completely forgot about until I stumbled across it.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

2330. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 00:59:58 UTC
From: Jim Shorney
Topic: 855 Message: 2330

On Tue, 25 Aug 2009 08:54:26 +0100 (GMT+01:00), g4jss@... wrote:

>In my ignorance I seem to think that the fault lies between the Jones connector and the on off switch on the rig as the PSU voltage drops to 6v and the PSU meter shows a drain of several amps without the rig being switched on. This only happens on the high current cct. (Tx) If I connect to the Rx cct only the Rx works fine.

The high current rail does not connect to the power switch, it runs directly to
the PA deck and nowhere else.

>Are there any RF decoupling caps associated with the connector and prior to the switch?

There are both RF bypass and electrolytics on the PS deck, and possible on the
back of the JOnes connector itself (I haven' t looked lately).

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2331. RV-4C trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 03:44:23 UTC
From: lonelyone_64109
Topic: 2331 Message: 2331

While moving the station this weekend the RV-4C VFO has quit working in receive & receive/transmit positions (no tune or calibrate signal but dial lights and neon light is lit. I don't hear the VFO signal on a SW receiver but can hear the VFO in the TR-4C. I did the voltage and resistance checks and the resistances are fine. However the cathode voltage is missing on the tube in the VFO. None of the parts in the VFO look bad or burnt, from what I have checked they are fine.L3 tests good and I tried touching up the solder joints thinking it may be a solder joint that got loosened up. I have sprayed the switch with De-OxIt. Even swapped out the tube without luck.Any ideas???

The crazy thing is it was working fine a couple of weeks ago. Maybe I should have left it alone???

Paul WB0CJB

2332. Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 16:31:26 UTC
From: querencias
Topic: 855 Message: 2332

After looking at the diagram for the PA board one must think that the electrolytics are suspect. Because the power switch is in the off position there is no bias on the high current transistors and the only path to ground that I could see in a cursory pass is in the electrolytic caps, the bypass caps, and the resistors. High likelihood that at least one of those will prove to be the culprit.

best of luck, Vic

Grant

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 25 Aug 2009 08:54:26 +0100 (GMT+01:00), g4jss@... wrote:
>
> >In my ignorance I seem to think that the fault lies between the Jones connector and the on off switch on the rig as the PSU voltage drops to 6v and the PSU meter shows a drain of several amps without the rig being switched on. This only happens on the high current cct. (Tx) If I connect to the Rx cct only the Rx works fine.
>
>
> The high current rail does not connect to the power switch, it runs directly to
> the PA deck and nowhere else.
>
>
> >Are there any RF decoupling caps associated with the connector and prior to the switch?
>
> There are both RF bypass and electrolytics on the PS deck, and possible on the
> back of the JOnes connector itself (I haven' t looked lately).
>
> 73
>
> -Jim
>
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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>
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2333. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 19:42:56 UTC
From: g4jss@tiscali.co.uk
Topic: 855 Message: 2333

Hi again

If that proves to be the case then it ain't too bad.

Will let you know how we shape up on that. Will be a few days before I get around to it as I'm tied up for a while - grandkids come to stay for a week!!

Cheers

Vic

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[Non-text portions of this message have been removed]

2334. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-27 21:03:11 UTC
From: Jim Shorney
Topic: 855 Message: 2334

On Thu, 27 Aug 2009 16:31:26 -0000, querencias wrote:

>
>After looking at the diagram for the PA board one must think that the electrolytics are suspect. Because the power switch is in the off position there is no bias on the high current transistors and the only path to ground that I could see in a cursory pass is in the electrolytic caps, the bypass caps, and the resistors. High likelihood that at least one of those will prove to be the culprit.

Also worth checking are the driver transistors - I've had them go leaky on me.
The PS transistors possibly as well, but less likely from what I have seen and
read.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2335. Re: [DrakeRadio] Re: TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-28 04:13:44 UTC
From: Jim Shorney
Topic: 855 Message: 2335

On Thu, 27 Aug 2009 16:03:11 -0500, Jim Shorney wrote:

>The PS transistors possibly as well,

I meant to type "PA" transistors...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2336. Re: [DrakeRadio] RV-4C trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-28 11:45:38 UTC
From: rrkrr
Topic: 2331 Message: 2336

Have you checked the relay in the TR-4? The neon light on the RV-4 should toggle on and off as appropriate in RX only or TX only. Check the coax cable that carries the RV-4 signal back to the TR-4. I've had to replace this cable in three RV-4s that I've worked on - all had open center conductors. Also look carefully at the inside of the Jones plug that plugs into the bottom of the TR-4. Space is very tight and the insulation sleeves over the pins can deteriorate over time. You may have a short there.

Bob K4ERR

lonelyone_64109 wrote:
>
>
> While moving the station this weekend the RV-4C VFO has quit working
> in receive & receive/transmit positions (no tune or calibrate signal
> but dial lights and neon light is lit. I don't hear the VFO signal on
> a SW receiver but can hear the VFO in the TR-4C. I did the voltage and
> resistance checks and the resistances are fine. However the cathode
> voltage is missing on the tube in the VFO. None of the parts in the
> VFO look bad or burnt, from what I have checked they are fine.L3 tests
> good and I tried touching up the solder joints thinking it may be a
> solder joint that got loosened up. I have sprayed the switch with
> De-OxIt. Even swapped out the tube without luck.Any ideas???
>
> The crazy thing is it was working fine a couple of weeks ago. Maybe I
> should have left it alone???
>
> Paul WB0CJB
>
>

2337. TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-28 21:35:25 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2337

I have a Drake TR-7 that I did have for sale. I opened it up to answer a question for a buyer, and now it will not recieve or transmit. I pulled the NB and the Second Mixer board. All contections have been checked and double checked. I reseated all boards and conections that I could find.

Any ideas where to start?

Lee
KC4ART

2338. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 01:18:46 UTC
From: Jim Shorney
Topic: 2337 Message: 2338

It might be helpful to know what the radio DOES do. Does the frequency readout respond normally to PTO and bandswitch operation? Do you hear hiss from the speaker? Does the S-Meter respond to antenna signals or the calibrator signal? Does the T/R relay click when you PTT the mic?

The most common cause of sudden failures in the TR7 seems to be oxidation or dirt in the Molex connectors between the sub-boards and the parent board or DR7 board, or a poorly seated board. You have already checked that, but it might pay to check it again; some of the boards aren't real easy to properly seat. Also check all the small plug-in cables between boards to ensure that they are proplerly mated with the connectors. The wire from the DR7 board and the coax that passes through the DR7, both connecting to one of the bandswitch sections, are also critical. You might also want to check teh DC-DC converter board in the right front corner of the radio for proper output voltages. Be careful not to bump any of the adjustment pots, or you will need to realign them.

73

-Jim

On Fri, 28 Aug 2009 17:35:25 -0400, lratcliff lratcliff wrote:

>I have a Drake TR-7 that I did have for sale. I opened it up to
>answer a question for a buyer, and now it will not recieve or
>transmit. I pulled the NB and the Second Mixer board. All
>contections have been checked and double checked. I reseated all
>boards and conections that I could find.
>
>Any ideas where to start?
>
>Lee
>KC4ART
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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2339. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 03:06:59 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2339

It powers up, and shows all inclination of working correctly, but will
not recieve any signals at all. Not even with the calibrator on.
Also, the relay will switch over, but no output on any band or mode.

Lee

On 8/28/09, Jim Shorney <jshorney@...> wrote:
>
> It might be helpful to know what the radio DOES do. Does the frequency readout
> respond normally to PTO and bandswitch operation? Do you hear hiss from the
> speaker? Does the S-Meter respond to antenna signals or the calibrator signal?
> Does the T/R relay click when you PTT the mic?
>
> The most common cause of sudden failures in the TR7 seems to be oxidation or
> dirt in the Molex connectors between the sub-boards and the parent board or DR7
> board, or a poorly seated board. You have already checked that, but it might
> pay to check it again; some of the boards aren't real easy to properly seat.
> Also check all the small plug-in cables between boards to ensure that they are
> proplerly mated with the connectors. The wire from the DR7 board and the coax
> that passes through the DR7, both connecting to one of the bandswitch sections,
> are also critical. You might also want to check teh DC-DC converter board in
> the right front corner of the radio for proper output voltages. Be careful not
> to bump any of the adjustment pots, or you will need to realign them.
>
> 73
>
> -Jim
>
>
> On Fri, 28 Aug 2009 17:35:25 -0400, lratcliff lratcliff wrote:
>
> >I have a Drake TR-7 that I did have for sale. I opened it up to
> >answer a question for a buyer, and now it will not recieve or
> >transmit. I pulled the NB and the Second Mixer board. All
> >contections have been checked and double checked. I reseated all
> >boards and conections that I could find.
> >
> >Any ideas where to start?
> >
> >Lee
> >KC4ART
> >
>
>
> --

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> http://www.nebraskaghosts.org
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2340. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 05:15:53 UTC
From: Jim Shorney
Topic: 2337 Message: 2340

On Fri, 28 Aug 2009 23:06:59 -0400, lratcliff lratcliff wrote:

>
>
>It powers up, and shows all inclination of working correctly, but will
>not recieve any signals at all. Not even with the calibrator on.
>Also, the relay will switch over, but no output on any band or mode.

If the digital readout responds normally, that indicates that all the oscillators are running and locked. Which means the DC-DC converter is probably OK, as well as the +10. I would start looking at mixers and IF chain. And don't everlook those Molex connectors. The pins can become deformed or the female contacts lose thier "spring". All this is fixable.

If you don't have one, download a service manual. There's a couple of them floating around on the internet for free. Mods.dk has one.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

2341. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 16:57:38 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2341

I to have an Oscope. Is there a good way to trace signals from board
to board? Im thinking at the ends of the coax that runs from each
board.

I think I already have a service manuel for it, I will have to look.

Lee

On 8/29/09, Jim Shorney <jshorney@...> wrote:
> On Fri, 28 Aug 2009 23:06:59 -0400, lratcliff lratcliff wrote:
>
> >
> >
> >It powers up, and shows all inclination of working correctly, but will
> >not recieve any signals at all. Not even with the calibrator on.
> >Also, the relay will switch over, but no output on any band or mode.
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>
> If the digital readout responds normally, that indicates that all the
> oscillators are running and locked. Which means the DC-DC converter is probably
> OK, as well as the +10. I would start looking at mixers and IF chain. And don't
> everlook those Molex connectors. The pins can become deformed or the female
> contacts lose thier "spring". All this is fixable.
>
> If you don't have one, download a service manual. There's a couple of them
> floating around on the internet for free. Mods.dk has one.
>
> 73
>
> -Jim
>
> --
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2342. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 17:30:49 UTC
From: Jim Shorney
Topic: 2337 Message: 2342

On Sat, 29 Aug 2009 12:57:38 -0400, lratcliff lratcliff wrote:

>I to have an Oscope. Is there a good way to trace signals from board
>to board? Im thinking at the ends of the coax that runs from each
>board.
>
>I think I already have a service manuel for it, I will have to look.

O-scope should work fine, depending on the bandwidth. The 2nd if is 5.645 MHz. 1st is 40 MHz. Many of the critical signals are available on the bottom of the parent board. The cables that lug in near the top of the boards should be easy to probe, others not so. I would almost guess, based on your description of the symptoms, that you are losing injection somewhere. If you have a general coverage receiver, you could sniff the 2nd IF with it and see if that is working, at least. You should be able to hear yourself on transmit.

73

-Jim

--
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2343. Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 17:55:04 UTC
From: querencias
Topic: 2337 Message: 2343

It's significant that you cannot hear the calibrator signal and tha neither the rcvr nor xmtr function.

I had a similar problem after brining my TR-7 into the houe after it sat for almost 9 yrs in a leaky shed. I reseated all the cards and spent many hours trying to track the problem - no reception no xmsn.

After nearly giving up I reseated the cards again and noticed that one pin was slightly bent on the connector for the mixer board - had to look carefully to it - straightened the pin and it worked perfecty - these things are robust! still working with no problem at all.

Check the pins carefully and be GENTLE when manipulating the boards - they can be troublesome and they demand respect.

AFter you assure that the pins are ok and the boards are correctly seated look into the calibrator - that's a good test signal.

Could be the same problem that I had - mine involved the mixer

best pf luck

Grant

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Fri, 28 Aug 2009 23:06:59 -0400, lratcliff lratcliff wrote:
>
> > >
> > >
> > >It powers up, and shows all inclination of working correctly, but will
> > >not recieve any signals at all. Not even with the calibrator on.
> > >Also, the relay will switch over, but no output on any band or mode.
> >
> >
> > If the digital readout responds normally, that indicates that all the
> > oscillators are running and locked. Which means the DC-DC converter is probably
> > OK, as well as the +10. I would start looking at mixers and IF chain. And don't
> > everlook those Molex connectors. The pins can become deformed or the female
> > contacts lose thier "spring". All this is fixable.
> >
> > If you don't have one, download a service manual. There's a couple of them
> > floating around on the internet for free. Mods.dk has one.
> >
> > 73
> >
> > -Jim
> >

> --
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2344. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 19:00:45 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2344

I am leaning toward the problem being with the mixer, since I did pull
it out also. Will check that out later today or tomorrow, and see
what happens.

Lee

On 8/29/09, querencias <tuquerencia@...> wrote:
> It's significant that you cannot hear the calibrator signal and tha neither the rcvr nor xmtr function.
>
> I had a similar problem after brining my TR-7 into the houe after it sat for almost 9 yrs in a leaky shed. I reseated all the cards and spent many hours trying to track the problem - no reception no xmsn.
>
> After nearly giving up I reseated the cards again and noticed that one pin was slightly bent on the connector for the mixer board - had to look carefully to it - straightened the pin and it worked perfecty - these things are robust! still working with no problem at all.
>
> Check the pins carefully and be GENTLE when manipulating the boards - they can be troublesome and they demand respect.
>
> AFter you assure that the pins are ok and the boards are correctly seated look into the calibrator - that's a good test signal.
>
> Could be the same problem that I had - mine involved the mixer
>
> best pf luck
>
> Grant
>
> --- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
> >
> > On Fri, 28 Aug 2009 23:06:59 -0400, lratcliff lratcliff wrote:
> >
> > >
> > >
> > > >It powers up, and shows all inclination of working correctly, but will
> > > >not recieve any signals at all. Not even with the calibrator on.
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> > >
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> > > everlook those Molex connectors. The pins can become deformed or the female

> > contacts lose thier "spring". All this is fixable.
> >
> > If you don't have one, download a service manual. There's a couple of them
> > floating around on the internet for free. Mods.dk has one.
> >
> > 73
> >
> > -Jim
> >
> > --
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2345. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 20:27:09 UTC
From: Jim Shorney
Topic: 2337 Message: 2345

On Sat, 29 Aug 2009 15:00:45 -0400, lratcliff lratcliff wrote:

>I am leaning toward the problem being with the mixer, since I did pull
>it out also. Will check that out later today or tomorrow, and see
>what happens.

A couple of thoughts on the Molex connectors. The femalr contacts can lose thier spring tension. The best fix I have found for that (short of replacing the connector) is to desolder the connector from the board, carefully remove the contact and re-tension it.

My R7A had a solder blob from the factory on one of the male pins. It worked fine that way for many years before I got the radio and started reseating boards, at which point it deformed the female contact. After cleaning the male pin, I used the above procedure to re-form the female contact and all was well.

The interconnect coax cables can be fun too. The solid center conducter has to mate with a very small socket contact soldered to the board. It's not always easy to "hit the hole", as it were. A good visual inspection, with a flashlight in hand, will tell the tale.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
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2346. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 20:29:33 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2346

I know all about the coax connectors. I have had a fit with them in
the past. Is there any history of the center connector breaking up
inside the cable?

Lee

On 8/29/09, Jim Shorney <jshorney@...> wrote:
> On Sat, 29 Aug 2009 15:00:45 -0400, lratcliff lratcliff wrote:
>
> >I am leaning toward the problem being with the mixer, since I did pull
> >it out also. Will check that out later today or tomorrow, and see
> >what happens.
>
>
> A couple of thoughts on the Molex connectors. The femalr contacts can lose
> thier spring tension. The best fix I have found for that (short of replacing
> the connector) is to desolder the connector from the board, carefully remove
> the contact and re-tension it.
>
> My R7A had a solder blob from the factory on one of the male pins. It worked
> fine that way for many years before I got the radio and started reseating
> boards, at which point it deformed the female contact. After cleaning the male
> pin, I used the above procedure to re-form the female contact and all was well.
>
> The interconnect coax cables can be fun too. The solid center conducter has to
> mate with a very small socket contact soldered to the board. It's not always
> easy to "hit the hole", as it were. A good visual inspection, with a flashlight
> in hand, will tell the tale.
>
> 73
>
> -Jim
>
> --
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2347. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 22:10:54 UTC
From: Jim Shorney
Topic: 2337 Message: 2347

On Sat, 29 Aug 2009 16:29:33 -0400, lratcliff lratcliff wrote:

>I know all about the coax connectors. I have had a fit with them in
>the past. Is there any history of the center connector breaking up
>inside the cable?

Not that I have heard of. I've had my TR7 since about the mid 1980s, and the poor girl has suffered considerable abuse at my hands. :) Haven't had any problems with the cables. Molex connectors, driver transistors, filter caps on the DC-DC converter, yes. Cables, no.

My current niggle is my CW sidetone tends to disappear. Not a big deal, I don't run much CW. I suspect (you guessed it) a Molex connector...

All in all, over the life of the radio, that's not a bad record.

73

-Jim

--
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http://www.nebraskaghosts.org

2348. TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 22:27:37 UTC
From: david.rose@snet.net
Topic: 2337 Message: 2348

The TR-7 I bought earlier this year has been acting up recently and I'm wondering if anyone out there has seen this happen. When I advance the carrier control past the 1 o'clock position and transmit, the unit shuts off and it takes a moment or to before I can turn it on again. At 1 o'clock and below no problem. Also the green ALC light when starting a transmission (cw) starts out a bright green and slowly fades and goes out. Can anybody out there tell me if this normal? Thanks!

73

Dave KW1V

2349. Re: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 23:10:06 UTC
From: Jim Shorney
Topic: 2337 Message: 2349

Hi Dave,

Are you using the matching PS7 power supply? What is your corresponding output power at the point of shutdown? There may be an issue with the PS7, see http://www.alg.myzen.co.uk/radio/tr7/mods.htm#16 , and #17 immediatly following it. I would tend to suspect the adjustment of the white pot first.

The ALC circuit can be a little strange. I would highly recommend the ALC modification farther down on the same page as above. Does your power output remain constant, or does it fall off after a few seconds? This could indicate a fault in the PA deck. The predriver transistor on the Ver. 2 predriver board has been known to cause power falloff. There is good information on this in the "Drakemods" article and at the WB4HFN web site. In any case, for best signal quality, the rig should be run so that you are *just below* the ALC threshold; i.e., just below the point where the LED starts to illuminate.

Hope this helps.

73

-Jim

On Sat, 29 Aug 2009 22:27:37 -0000, david.rose@... wrote:

>The TR-7 I bought earlier this year has been acting up recently and I'm wondering if anyone out there has seen this happen. When I advance the carrier control past the 1 o'clock position and transmit, the unit shuts off and it takes a moment or to before I can turn it on again. At 1 o'clock and below no problem. Also the green ALC light when starting a transmission (cw) starts out a bright green and slowly fades and goes out. Can anybody out there tell me if this normal? Thanks!
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>73
>
>Dave KW1V
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>

--
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2350. Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 23:31:08 UTC
From: david.rose@snet.net
Topic: 2337 Message: 2350

Good evening Jim and thanks for your reply. Yes I am using the matching PS-7 supply and on 40m, the output stays at a steady 100W. I bookmarked the link you had sent me and will check it out. I am waiting for a second TR-7 that I purchased recently and when I get it will try the PS0-7 with the newly acquired TR-7 to see what happens. Many thanks my friend!

73

Dave KW1V

2351. RE: [DrakeRadio] TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-29 23:34:34 UTC
From: Keith R. Erickson
Topic: 2337 Message: 2351

A loose coax connector will also cause the first problem to occur.

Keith, K0GNW

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of david.rose@...
Sent: Saturday, August 29, 2009 5:28 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-7 problem

The TR-7 I bought earlier this year has been acting up recently and I'm wondering if anyone out there has seen this happen. When I advance the carrier control past the 1 o'clock position and transmit, the unit shuts off and it takes a moment or to before I can turn it on again. At 1 o'clock and below no problem. Also the green ALC light when starting a transmission (cw) starts out a bright green and slowly fades and goes out. Can anybody out there tell me if this normal? Thanks!

73

Dave KW1V

[Non-text portions of this message have been removed]

2352. Problem gone!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-30 00:41:17 UTC
From: david.rose@snet.net
Topic: 2352 Message: 2352

Jim & Keith,

Thanks to both of you for your suggestions and Keith you'll be glad to know that because of your suggesting to check the coax connector has resulted in both problems being fixed. I now can set carries ro full clockwise position with NO shutdown of rig and ALC light stays on. I will keep carrier setting at best position, probably at one o'clock. So again thanks to you both.

73

Dave KW1V

2353. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-30 18:38:05 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2353

Its fixed. I reseated the 2nd mixer board again, and it sprang to
life. I had already reseated that board several times before, with no
joy.

TNX for all the help.

Lee
KC4ART

On 8/29/09, Jim Shorney <jshorney@...> wrote:
> On Sat, 29 Aug 2009 16:29:33 -0400, lratcliff lratcliff wrote:
>
> >I know all about the coax connectors. I have had a fit with them in
> >the past. Is there any history of the center connector breaking up
> >inside the cable?
>
>
> Not that I have heard of. I've had my TR7 since about the mid 1980s, and the
> poor girl has suffered considerable abuse at my hands. :) Haven't had any
> problems with the cables. Molex connectors, driver transistors, filter caps on
> the DC-DC converter, yes. Cables, no.
>
> My current niggle is my CW sidetone tends to disappear. Not a big deal, I don't
> run much CW. I suspect (you guessed it) a Molex connector...
>
> All in all, over the life of the radio, that's not a bad record.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
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> Yahoo! Groups Links
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2354. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-31 01:19:30 UTC
From: Ken Burchfield
Topic: 2337 Message: 2354

Lee,
I have not followed all the thread. Was unseating. the mixer board, one of the things that you had done when you opened up your TR7 , when it Quit??
Most of the time I have to review the last thing I have done when something quits and I am "messing with the Unit"
73 Ken tnx for the feed back

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 8/30/09, lratcliff lratcliff <lratcliff@isp.com> wrote:

From: lratcliff lratcliff <lratcliff@...>
Subject: Re: [DrakeRadio] Re: TR-7 problem
To: DrakeRadio@yahoogroups.com
Date: Sunday, August 30, 2009, 1:38 PM

Its fixed. I reseated the 2nd mixer board again, and it sprang to
life. I had already reseated that board several times before, with no
joy.

TNX for all the help.

Lee
KC4ART

[Non-text portions of this message have been removed]

2355. Re: [DrakeRadio] Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-08-31 01:38:31 UTC
From: lratcliff lratcliff
Topic: 2337 Message: 2355

Yea, that and the NB board. I reseated it at least 20 times the other
day. Did it once today, and it came to life.

Lee

On 8/30/09, Ken Burchfield <k5jxl@...> wrote:
> Lee,
> I have not followed all the thread. Was unseating. the mixer board, one of the things
that you had done when you opened up your TR7 , when it Quit??
> Most of the time I have to review the last thing I have done when something quits and I
am "messing with the Unit"
> 73 Ken tnx for the feed back
>
> PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
>
>
>
> --- On Sun, 8/30/09, lratcliff lratcliff <lratcliff@...> wrote:
>
> From: lratcliff lratcliff <lratcliff@...>
> Subject: Re: [DrakeRadio] Re: TR-7 problem
> To: DrakeRadio@yahoogroups.com
> Date: Sunday, August 30, 2009, 1:38 PM
>
> Its fixed. I reseated the 2nd mixer board again, and it sprang to
> life. I had already reseated that board several times before, with no
> joy.
>
> TNX for all the help.
>
> Lee
> KC4ART
>
>
>
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links

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2356. Looking for SPR-4 Power Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-06 14:30:43 UTC
From: wb5kye100
Topic: 2356 Message: 2356

Hi..
I am helping a friend track down either a cable for the Drake SPR-4 or a source for the mating connector to build his own. Does anyone have a spare or know where I may find what I am looking for?

I've placed a picture of the receptacle on the back panel of the SPR-4 in the *FILES* section under WB5KYE. Any help that you can offer would be appreciated.

Thanks
Jim

2357. Re: [DrakeRadio] Looking for SPR-4 Power Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-06 18:34:25 UTC
From: Hans-Joachim Empel
Topic: 2356 Message: 2357

Hello Jim ,
i have four SPR-4 and if you want , i can give a powercable.
i modified all my SPR-4s for 12VDC , then the warming up is o.k.
Regards from Germany
Joachim
DL2388RB

----- Original Message -----
From: "wb5kye100" <jflan@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, September 06, 2009 4:30 PM
Subject: [DrakeRadio] Looking for SPR-4 Power Cable

> Hi..
> I am helping a friend track down either a cable for the Drake SPR-4 or a
> source for the mating connector to build his own. Does anyone have a
> spare or know where I may find what I am looking for?
>
> I've placed a picture of the receptacle on the back panel of the SPR-4 in
> the *FILES* section under WB5KYE. Any help that you can offer would be
> appreciated.
>
> Thanks
> Jim
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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2358. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-06 19:23:42 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2358

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2359. Re: [DrakeRadio] Looking for SPR-4 Power Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-06 19:44:32 UTC
From: Jim Flanagan
Topic: 2356 Message: 2359

Joachim..
That would be great! How much for shipping?
Please email me off list and we can set something up.
Thank you very much..
Jim
WB5KYE

Hans-Joachim Empel wrote:
> Hello Jim ,
> i have four SPR-4 and if you want , i can give a powercable.
> i modified all my SPR-4s for 12VDC , then the warming up is o.k.
> Regards from Germany
> Joachim
> DL2388RB
>
> ----- Original Message -----
> From: "wb5kye100" <jflan@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, September 06, 2009 4:30 PM
> Subject: [DrakeRadio] Looking for SPR-4 Power Cable
>
>
>> Hi..
>> I am helping a friend track down either a cable for the Drake SPR-4 or a
>> source for the mating connector to build his own. Does anyone have a
>> spare or know where I may find what I am looking for?
>>
>> I've placed a picture of the receptacle on the back panel of the SPR-4 in
>> the *FILES* section under WB5KYE. Any help that you can offer would be
>> appreciated.
>>
>> Thanks
>> Jim
>>
>>
>>
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>> Yahoo! Groups Links
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2360. Re: TR-7 problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-12 12:33:46 UTC
From: wd9cmd
Topic: 2337 Message: 2360

Hi,
I'm new to the group, but a long time Drake owner-operator. When re-seating the boards in the TR7, I recommend using some deoxit either on the pins or the board contacts themselves or both. These radios are getting some age on them, and board contacts are the first things to check if something goes wrong. Other common problems are the ground tabs on the boards not making good contact to the rear cover.
Good luck,
David

--- In DrakeRadio@yahoogroups.com, lratcliff lratcliff <lratcliff@...> wrote:
>
> Yea, that and the NB board. I reseated it at least 20 times the other
> day. Did it once today, and it came to life.
>
> Lee
>
>
>
> On 8/30/09, Ken Burchfield <k5jxl@...> wrote:
> > Lee,
> > I have not followed all the thread. Was unseating. the mixer board, one of the things that you had done when you opened up your TR7 , when it Quit??
> > Most of the time I have to review the last thing I have done when something quits and I am "messing with the Unit"
> > 73 Ken tnx for the feed back
> >
> > PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
> >
> >
> >
> > --- On Sun, 8/30/09, lratcliff lratcliff <lratcliff@...> wrote:
> >
> > From: lratcliff lratcliff <lratcliff@...>
> > Subject: Re: [DrakeRadio] Re: TR-7 problem
> > To: DrakeRadio@yahoogroups.com
> > Date: Sunday, August 30, 2009, 1:38 PM
> >
> > Its fixed. I reseated the 2nd mixer board again, and it sprang to
> > life. I had already reseated that board several times before, with no
> > joy.
> >
> > TNX for all the help.
> >
> > Lee

> > KC4ART
> >
> >
> >
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> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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2361. "Unobtanium" plug for Drake, plus other Drake items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-12 20:09:36 UTC
From: Ken Simpson, W8EK
Topic: 2361 Message: 2361

Drake items for sale:

"Unobtanium" 3 pin mic plug
This is the small 3 pin mic plug that fits the Drake TR-22
mic jack. It is much smaller than most of the mic connectors.
I thought these were completely gone, but one appeared from
a silent key. This one has been used, but should still be
usable some more. $12

Drake 1525 EM Touchtone DTMF Microphone
This is the mic that was used to add a touchtone pad to many
rigs in the 70s and 80s. It is a normal hand mic from the
front, but has a touchtone pad on the back. Four pin mic plug.
This particular unit has been used, but is in good shape and
includes paper work. $38

Drake TV-3300-LP Low Pass Filter
This is a modern low pass filter to go between your transmitter
and antenna, and has been optimized to have more attenuation
in the 40 MHz region, where many TVs have their IF. It is good
for 1000 Watts "average" according to the manual, and has
over 80 db attenuation at 41 MHz. This one looks great, and
includes the paper work. $30

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has
cutouts in the back for antenna, power, etc. It includes
the shoulder strap, and is in good shape. $12

Case for Drake TR-22
As above, but for the TR-22. No shoulder strap. $10

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

2362. TA-4 ADAPTER FOR SPR4- AUDIO TRANSFORMER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-13 06:08:02 UTC
From: w1fued@sbcglobal.net
Topic: 2362 Message: 2362

Hi All,

I have an SPR4 WITHOUT A TA-4 BOARD. I found the schematic and info online and wish to build one, but cant find any info on the audio transformer needed. Does anyone know the impedence of thiat transformer? Is the anti-vox necessary for PTT or cw?

I will build up the board for use with the digital display I built and try it, but would like to complete it with the transformer if possible.

Ed
W1FU

2363. SPR 4 FILTER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-13 06:13:18 UTC
From: w1fued@sbcglobal.net
Topic: 2363 Message: 2363

Can I install an 8 kc. filter from an r4 c into an spr4?
They are both 5645 kc, I dont know the difference the r4c filter is bigger, possibly with two more pole?

Thanks,
Ed

2364. Re: [DrakeRadio] TA-4 ADAPTER FOR SPR4- AUDIO TRANSFORMER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-13 08:15:55 UTC
From: Hans-Joachim Empel
Topic: 2362 Message: 2364

i have also an audiotransform?r available , i removed this one from one of
my SPR-4s.
if you want , i can send this also to you.

73s
Joachim
----- Original Message -----
From: <w1fued@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, September 13, 2009 8:08 AM
Subject: [DrakeRadio] TA-4 ADAPTER FOR SPR4- AUDIO TRANSFORMER

> Hi All,
>
> I have an SPR4 WITHOUT A TA-4 BOARD. I found the schematic and info online
> and wish to build one, but cant find any info on the audio transformer
> needed. Does anyone know the impedence of thiat transformer? Is the
> anti-vox necessary for PTT or cw?
>
> I will build up the board for use with the digital display I built and try
> it, but would like to complete it with the transformer if possible.
>
> Ed
> W1FU
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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2365. Drake 2-C Capacitor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-18 02:25:16 UTC
From: rumple70
Topic: 2365 Message: 2365

What would be somewhere to find a 1000 mfd 15v capacitor for my 2-C...Thanks!

2366. Re: Drake 2-C Capacitor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-18 03:17:44 UTC
From: toptyp19
Topic: 2365 Message: 2366

I just replaced a 1000mFd capacitor in a small regulated power supply
last week. It had a working voltage of at least 35V. It's sealed up
now so I can't see the exact voltage value. I bought it at Radio Shack.
Joe

--- In DrakeRadio@yahoogroups.com, "rumple70" <rumple70@...> wrote:
>
> What would be somewhere to find a 1000 mfd 15v capacitor for my 2-C...Thanks!
>

2367. Re: [DrakeRadio] Drake 2-C Capacitor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-18 13:33:14 UTC
From: Joel
Topic: 2365 Message: 2367

15v 1000?F is an odd voltage for most common use today, unless it's a Tantalum cap that require precise cut off voltage. But a 16v 1000?F cap is very common and can be found in almost any component supplier store. A 25v 1000?F cap will also work, if you are not cramped for room, all these are available in common domestic and amateur power supplies circuits, and parts box.

v44kai.....Joel.

----- Original Message -----
From: "rumple70" <rumple70@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, September 17, 2009 9:25 PM
Subject: [DrakeRadio] Drake 2-C Capacitor

> What would be somewhere to find a 1000 mfd 15v capacitor for my
> 2-C...Thanks!
>
>
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.103/2378 - Release Date: 09/17/09 06:18:00

2368. Re: Drake 2-C Capacitor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-18 13:11:21 UTC
From: captcurt2000
Topic: 2365 Message: 2368

online order from Digikey, Mouser, MCM, Jameco, or any of the amateur parts guys.

This does sound like an odd value from an older receiver. Be sure it is an electrolytic and not a polarized tantulum as mentioned before. Perhaps a picture?

It shouldn't cost more than a buck.

I have a 16V 1000mFD I'de be happy to send you a couple if you want to cover a priority flate rate or regular postage. Only thing is I only have radial mounts. ie both leads come out of one end--for pcb mounting. Works the same, but if you are just experimenting, its fine.

They are .375 dia x .625 long.

email me off list--KU8L@...

Cheers
Curt

--- In DrakeRadio@yahoogroups.com, "rumple70" <rumple70@...> wrote:
>
> What would be somewhere to find a 1000 mfd 15v capacitor for my 2-C...Thanks!
>

2369. Re: Drake 2-C Capacitor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-18 13:15:04 UTC
From: captcurt2000
Topic: 2365 Message: 2369

The board doesn't like email addresses I guess.

the email to the right of this box is ok or

KU8L @ flash dot net

2370. R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 08:35:09 UTC
From: Victor
Topic: 1070 Message: 2370

Hi can anyone tell me what the going price is for an R-4B?
I ask because there is one on Ebay UK and he wants $720 for it plus $30 shipping.
That seems very high to me especially as it ' worked when I last used it ' so he doesn't know if it works or not and he also suggests that before use the electrolytics should be checked. That seems to tell me that it hasn't been used for a long time and he's wary about switching it on!
Vic
G4JSS

2371. Re: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 11:34:20 UTC
From: amfone
Topic: 1070 Message: 2371

Victor

Way way to much money. Maybe at most by how he is describing the radio $150.00 U.S.

That's my max.

73 Tim
WB8UHZ

From: Victor <g4jss@...>
To: DrakeRadio@yahoogroups.com
Sent: Saturday, September 19, 2009 4:35:09 AM
Subject: [DrakeRadio] R-4B

Hi can anyone tell me what the going price is for an R-4B?
I ask because there is one on Ebay UK and he wants $720 for it plus $30 shipping.
That seems very high to me especially as it ' worked when I last used it ' so he doesn't know if it works or not and he also suggests that before use the electrolytics should be checked. That seems to tell me that it hasn't been used for a long time and he's wary about switching it on!
Vic
G4JSS

[Non-text portions of this message have been removed]

2372. Re: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 11:48:40 UTC
From: Lou W0TQ
Topic: 1070 Message: 2372

A check of recently sold on eBay looks like $200 - $225 US

Lou W0TQ

Victor wrote:
>
>
> Hi can anyone tell me what the going price is for an R-4B?
> I ask because there is one on Ebay UK and he wants $720 for it plus
> $30 shipping.
> That seems very high to me especially as it ' worked when I last used
> it ' so he doesn't know if it works or not and he also suggests that
> before use the electrolytics should be checked. That seems to tell me
> that it hasn't been used for a long time and he's wary about switching
> it on!
> Vic
> G4JSS
>
>

[Non-text portions of this message have been removed]

2373. RE: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 12:36:16 UTC
From: Jim Chaggaris
Topic: 1070 Message: 2373

Vic,

$720USD!...Run Away!

Maybe $250-$300USD IF it is a late serial number (which it isn't). He has no photos of the copper chassis to show what condition it is in. Also, the dials will discolor if exposed to direct sunlight and is a common issue with the B-Line (can't tell if the whole dial is clear from the photos).

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Victor
Sent: Saturday, September 19, 2009 3:35 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] R-4B

Hi can anyone tell me what the going price is for an R-4B?
I ask because there is one on Ebay UK and he wants $720 for it plus $30 shipping.

That seems very high to me especially as it ' worked when I last used it ' so he doesn't know if it works or not and he also suggests that before use the electrolytics should be checked. That seems to tell me that it hasn't been used for a long time and he's wary about switching it on!
Vic
G4JSS

[Non-text portions of this message have been removed]

2374. R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 13:11:33 UTC
From: Victor
Topic: 1070 Message: 2374

Jim, Tim, Lou
Thanks for your replies and info. I tend to think that this guy has somewhere along the line heard ' Drake ' as a magic name to produce £'s/$'s.
Going to watch this with interest.
Cheers
Vic

2375. Re: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 13:44:11 UTC
From: de_n7ioh
Topic: 1070 Message: 2375

--- In DrakeRadio@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Jim, Tim, Lou
> Thanks for your replies and info. I tend to think that this guy has somewhere along the line heard ' Drake ' as a magic name to produce £'s/$'s.
> Going to watch this with interest.
> Cheers
> Vic
>

I have been looking for one here on ebay for the last two months that is in good physical shape and in the later serial number group (10501 - 16000). The ones I have SEEN listed actually sold closer to $280 - $300. Condition seems to be more important to how much they sell for. Because of the copper plating some look very good and some very bad. I'm a little short of cash right now so I have only been keeping track of what they are selling for.

Al n7ioh

2376. Drake Gear and wild prices ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 14:10:29 UTC
From: Kris Merschrod
Topic: 1070 Message: 2376

As the old saying goes, "You can't blame 'm for trying."

Often your see extravagant "Buy Now" prices on eBay and you wonder just what is going on in the "advertising department." IMHO eBay does serve as a source for an idea of what is going on price wise in the US. However, I like WB4HFN's
http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm
for price ranges.

What happens in other countries is another story - shipping and customs ad a lot of cost and aggrevation that has to be worth something!

Kris KA2OIG

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Victor
To: DrakeRadio@yahoogroups.com
Sent: Saturday, September 19, 2009 4:35 AM
Subject: [DrakeRadio] R-4B

Hi can anyone tell me what the going price is for an R-4B?
I ask because there is one on Ebay UK and he wants $720 for it plus $30 shipping.
That seems very high to me especially as it ' worked when I last used it ' so he doesn't know if it works or not and he also suggests that before use the electrolytics should be checked. That seems to tell me that it hasn't been used for a long time and he's wary about switching it on!
Vic
G4JSS

[Non-text portions of this message have been removed]

2377. Re: [DrakeRadio] Re: R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 14:46:31 UTC
From: Joe
Topic: 1070 Message: 2377

Speaking of the copper.....

IF you are lucky enough to live in a town that has two businesses, you can bring your copper of to new standards.

First, find a printing outfit that can make a silk screen for you. And then a plating outfit that can do copper plating.

Strip your chassis and take it into the print store. They will take pictures of all the tube nomenclature and placement and print type (Font) and make a silk screen for you.

Then off to the replater, where they will strip the old chassis and replate with shiny new copper plating. When done, take the silk screen you had made, tape it to the chassis and reprint the tube info..then when dry, coat with a good clear coat of whatever you choose and your legacy radio will look top notch. Cost is a little on the high side but well worth it as the early Drakes are truly worthy of being on display as well as being in use!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "de_n7ioh" <mebareit@...>
Subject: [DrakeRadio] Re: R-4B

I have been looking for one here on ebay for the last two months that is in good physical shape and in the later serial number group (10501 - 16000). The ones I have SEEN listed actually sold closer to $280 - $300. Condition seems to be more important to how much they sell for. Because of the copper plating some look very good and some very bad. I'm a little short of cash right now so I have only been keeping track of what they are selling for.

2378. Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 17:14:07 UTC
From: jshea_n4dsp
Topic: 2378 Message: 2378

Can someone tell me the wiring configuration for a 1/4" phono jack for the R4B using the Shure 444 for PTT and Vox.

There is 3 wires, Red, Black, White, and the braided ground.

thanks

john

2379. Re: [DrakeRadio] Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 18:23:23 UTC
From: Jim Shorney
Topic: 2378 Message: 2379

On Sat, 19 Sep 2009 17:14:07 -0000, jshea_n4dsp wrote:

>Can someone tell me the wiring configuration for a 1/4" phono jack for the R4B using the Shure 444 for PTT and Vox.

>There is 3 wires, Red, Black, White, and the braided ground.

If the mic hasn't been re-wired:

Red = PTT
Black = PTT return
White = Audio
Braid = Audio return (shield)

Red probably goes to tip, white to ring (check your manual on this). Tie black and shield together and connect to the ground terminal. Depending on the 444 variant you have, the audio may or may not be enabled in RX mode. If not, there should be a switch on the bottom of the mic to open the PTT line when you want to use VOX. It varies. You may need to open it up to see how it is wired.

First hit on Google:

http://www.shure.com/stellent/groups/public/@gms_gmi_web_ug/documents/web_resource/us_pro_444_ug.pdf

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2380. Re: [DrakeRadio] Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 20:52:59 UTC
From: Jim Gerke
Topic: 2378 Message: 2380

Why would you be using a mic with a receiver?

Just asking..... :)

The mic plug for the Drake 4-line transmitters is slightly smaller than
1/4" -- .204", I think. Unless someone has changed out the mic jack on
the transmitter, a 1/4" plug won't work.

73, Jim K5JG

jshea_n4dsp wrote:
> Can someone tell me the wiring configuration for a 1/4" phono jack for the R4B using the Shure 444 for PTT and Vox.
>
> There is 3 wires, Red, Black, White, and the braided ground.
>
> thanks
>
> john
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

2381. Re: Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 21:09:14 UTC
From: jshea_n4dsp
Topic: 2378 Message: 2381

hahaha. I thought the receiver is what you transmit with. hahahaha.

Sorry for the typo! T4XB!
thanks for the correction Jim.

73
john

--- In DrakeRadio@yahoogroups.com, Jim Gerke <Jim.Gerke@...> wrote:
>
> Why would you be using a mic with a receiver?
>
> Just asking..... :)
>
> The mic plug for the Drake 4-line transmitters is slightly smaller than
> 1/4" -- .204", I think. Unless someone has changed out the mic jack on
> the transmitter, a 1/4" plug won't work.
>
> 73, Jim K5JG

2382. Re: Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 21:10:21 UTC
From: jshea_n4dsp
Topic: 2378 Message: 2382

Thanks Jim for the wiring configuration.

73
john

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sat, 19 Sep 2009 17:14:07 -0000, jshea_n4dsp wrote:
>
> >Can someone tell me the wiring configuration for a 1/4" phono jack for the R4B using the Shure 444 for PTT and Vox.
>
> >There is 3 wires, Red, Black, White, and the braided ground.
>
> If the mic hasn't been re-wired:
>
> Red = PTT
> Black = PTT return
> White = Audio
> Braid = Audio return (shield)
>
> Red probably goes to tip, white to ring (check your manual on this). Tie black and shield together and connect to the ground terminal. Depending on the 444 variant you have, the audio may or may not be enabled in RX mode. If not, there should be a switch on the bottom of the mic to open the PTT line when you want to use VOX. It varies. You may need to open it up to see how it is wired.
>
> First hit on Google:
>
> http://www.shure.com/stellent/groups/public/@gms_gmi_web_ug/documents/web_resource/us_pro_444_ug.pdf
>
> 73
>
> -Jim

2383. Re: [DrakeRadio] Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 21:26:51 UTC
From: Jim Shorney
Topic: 2378 Message: 2383

On Sat, 19 Sep 2009 15:52:59 -0500, Jim Gerke wrote:

>
>Why would you be using a mic with a receiver?

Well, they did it in the movies with a Heathkit after all...

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2384. Re: [DrakeRadio] Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 22:08:53 UTC
From: Joe
Topic: 2378 Message: 2384

Heh...so someone else caught that too?!! Heath 301 with a
mic....right......Good movie though.....

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Wiring Shure 444 for R4B

> On Sat, 19 Sep 2009 15:52:59 -0500, Jim Gerke wrote:
>
>>
>>Why would you be using a mic with a receiver?
>
>
> Well, they did it in the movies with a Heathkit after all...

2385. Re: [DrakeRadio] Wiring Shure 444 for R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-19 23:34:55 UTC
From: Jim Shorney
Topic: 2378 Message: 2385

On Sat, 19 Sep 2009 15:08:53 -0700, Joe wrote:

>Heh...so someone else caught that too?!! Heath 301 with a
>mic....right......Good movie though.....

LOTS of people caught that. I wasn't one of them. Never having owned a 301, I didn't really look all that close. Was just enjoying the movie.

I did enlighten IMDB on this little thing called "VOX", however.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2386. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-20 19:16:47 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2386

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2387. problem after tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-20 21:53:46 UTC
From: g.graulich1@verizon.net
Topic: 2387 Message: 2387

I have a problem after i tune up on any frequency on 75 meters. my problem is after tuneup and return it back to the SSB mode on the transmitter with the transceive switch in the separate mode the receive goes way off freq and if i turn the mode switch on the R-4C to AM and back to SSB it comes right back on frequency. Im useing the full C line. R-4C T-4XC MN2000 matcher and the W4 watt meter. I have the L-4B but im not using it when this happens. I checked for RF in the shack and that is not a problem. Also im using the shure 444D mike. All my interconnect cables are new. Please any help to put me in the right direction would be a great help. Thank in advance. Ps.. i will also get a high pitched tone comming from the R-4C speaker.

George
KC2EPD
"73"

2388. Drake Xtals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 00:09:42 UTC
From: jshea_n4dsp
Topic: 2388 Message: 2388

Anyone know where I may purchase xtals for my B line for the 30 and 17 meter bands besides eBay?

john

2389. Re: Drake Xtals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 00:22:08 UTC
From: toptyp19
Topic: 2388 Message: 2389

Hi John-
Either Jan Crystals or International Crystal can cut you any xtal
you want; and, they are pretty reasonable!
Joe.

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Anyone know where I may purchase xtals for my B line for the 30 and 17 meter bands besides eBay?
>
> john
>

2390. Re: Drake Xtals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 00:43:34 UTC
From: jshea_n4dsp
Topic: 2388 Message: 2390

Thanks Joe.

john

--- In DrakeRadio@yahoogroups.com, "toptyp19" <toptyp19@...> wrote:
>
>
>
> Hi John-
> Either Jan Crystals or International Crystal can cut you any xtal
> you want; and, they are pretty reasonable!
> Joe.

2391. Re: [DrakeRadio] problem after tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 01:39:22 UTC
From: Garey Barrell
Topic: 2387 Message: 2391

George -

It sounds like the LO for the 3rd mixer is not starting reliably. I would start with DeOxit on the MODE switch, which among other things switches between two crystals for either AM or SSB.

It's possible that V4 is weak, but more likely Q4 or the SSB crystal are weak.

There are other possibilities, but I'd start with the switch cleaning and sub for V4 just because it's easy!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g.graulich1@... wrote:
> I have a problem after i tune up on any frequency on 75 meters. my problem is after tuneup and return it back to the SSB mode on the transmitter with the transceive switch in the separate mode the receive goes way off freq and if i turn the mode switch on the R-4C to AM and back to SSB it comes right back on frequency. Im useing the full C line. R-4C T-4XC MN2000 matcher and the W4 watt meter. I have the L-4B but im not using it when this happens. I checked for RF in the shack and that is not a problem. Also im using the shure 444D mike. All my interconnect cables are new. Please any help to put me in the right direction would be a great help. Thank in advance. Ps.. i will also get a high pitched tone comming from the R-4C speaker.
>
> George
> KC2EPD
> "73"
>
>

2392. Re: [DrakeRadio] problem after tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 01:51:31 UTC
From: GEORGE GRAULICH
Topic: 2387 Message: 2392

Thanks Garey I'll try that as soon as i pickup some Deoxit and I'll let ya know how i made out.

--- On Sun, 9/20/09, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] problem after tune
To: DrakeRadio@yahoogroups.com
Date: Sunday, September 20, 2009, 9:39 PM

George -

It sounds like the LO for the 3rd mixer is not starting reliably. I
would start with DeOxit on the MODE switch, which among other things
switches between two crystals for either AM or SSB.

It's possible that V4 is weak, but more likely Q4 or the SSB crystal are
weak.

There are other possibilities, but I'd start with the switch cleaning
and sub for V4 just because it's easy!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g.graulich1@ verizon.net wrote:
> I have a problem after i tune up on any frequency on 75 meters. my problem is after tuneup and return it back to the SSB mode on the transmitter with the transceive switch in the separate mode the receive goes way off freq and if i turn the mode switch on the R-4C to AM and back to SSB it comes right back on frequency. Im useing the full C line. R-4C T-4XC MN2000 matcher and the W4 watt meter. I have the L-4B but im not using it when this happens. I checked for RF in the shack and that is not a problem. Also im using the shure 444D mike. All my interconnect cables are new. Please any help to put me in the right direction would be a great help. Thank in advance. Ps.. i will also get a high pitched tone comming from the R-4C speaker.
>
> George
> KC2EPD
> "73"
>
>

[Non-text portions of this message have been removed]

2395. No CW with Keyer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 11:03:34 UTC
From: jshea_n4dsp
Topic: 2395 Message: 2395

Can the Idiom Press K-5 keyer be used with the T-4XB? Having trouble getting the rig to key with this keyer.

john

2396. Re: No CW with Keyer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 11:24:19 UTC
From: jshea_n4dsp
Topic: 2395 Message: 2396

For the archives,, there is a jumper which needs to be changed with the K-5 keyer for vacuum tube radios. A very simple procedure which can be done within seconds by hand.

john

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Can the Idiom Press K-5 keyer be used with the T-4XB? Having trouble getting the rig to key with this keyer.
>
> john
>

2397. Welcome back

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 14:36:34 UTC
From: g4jss@tiscali.co.uk
Topic: 2397 Message: 2397

Hello Garey

Delighted to see you back on the group. Don't know what your problem was but it must have been pretty extensive since you have been QRT since June. Again, chuffed to bits you're back.

Loads of Drake probs here but if you want to lounge about all day in bed I'll put them aside until you're up to speed again!!

Welcome back.

Vic

G4JSS

Forget the rest, get the best - http://www.tiscali.co.uk/music

[Non-text portions of this message have been removed]

2398. Re: [DrakeRadio] Welcome back

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 14:53:18 UTC
From: Garey Barrell
Topic: 2397 Message: 2398

Hi Vic -

I'm "sorta" back. Typing is still a chore as my hands and arms are still weak and shake like mad with any effort. They shake just holding them over the keyboard, and they don't always hit the right keys! :-)

I had an aneurysm of the ascending aorta, the main "pipe" coming out of the top of the heart. It was about twice the diameter it should have been, and it seems they have a bad habit of "blowing", which is NOT good! The surgery was a snap, (a Dacron sleeve over the aorta (tire patch) and one bypass while he was in there. But I developed an infection a couple of days later and ended up "out" from June 25 through August 2. I got out of the hospital on August 13 and went to a rehab center until August 31 to try and rebuild a little muscle tone. I'm getting home therapy now, and am making progress.

The rule of thumb is that it takes 3 days of therapy for every day you are "down", so I still have a way to go. We have a hospital bed in the living room, but that should be gone next week. I've graduated to a cane from the walker. My chest looks like I've been attacked by a rabid cat, but the extra holes they punched are healing and the scars are fading.

So... I'm getting there, but it's a long road. When I went into the rehab hospital I was able to walk 12 feet with a walker, with a therapist following with a wheelchair for when I gave out. The day before I left, two and a half weeks later, I walked 450 feet with a walker.

I received a LOT of cards and prayers, and they were gratefully received. I don't know what others believe, but the prayers sure didn't hurt! The QSL cards and emails sure brightened some very long and tiresome days.

Since I have so much time, and backspacing, invested in this message I think I'll copy it to the list. It would be difficult to respond to everyone who wrote, the way I'm (NOT,) typing, but I hope that soon I'll be able to type again and thank each one individually. You can't know what it means unless you've been there!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hello Garey
>

> Delighted to see you back on the group. Don't know what your problem was but it must have been pretty extensive since you have been QRT since June. Again, chuffed to bits you're back.
>
> Loads of Drake probs here but if you want to lounge about all day in bed I'll put them aside until you're up to speed again!!
>
> Welcome back.
>
>
>
> Vic
>
> G4JSS
>

2399. Compatibility of MN-2000 on WARC bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 19:43:44 UTC
From: jshea_n4dsp
Topic: 2399 Message: 2399

Can they tune the 30 and 17 meter bands?

thanks
john

2400. Re: [DrakeRadio] Compatibility of MN-2000 on WARC bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 19:56:23 UTC
From: Kris Merschrod
Topic: 2399 Message: 2400

John,

Yes, antennas can be "matched" to the WARC bands with the Drake Tuners BUT - it all depends :>)

I do not know the range of mismatch that can be handled, but my experience has been on dipoles and loops cut for non-WARC bands, e.g., a 15 meter antenna for the 17 meter band.

The approach used is:
1) set the inductor to the next highest frequency band,
2) Set the two capacitors to mid-range;
3) apply some power and tweek the capacitors until a match is found via the SWR bridge.

If that fails, then set the inductor to the next lowest band and do the capacitor tweeking routine.

I have not tried any wild ideas such as the proverbial bedspring.

Kris KA2OIG
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

2401. Re: problem after tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 20:13:11 UTC
From: jb
Topic: 2387 Message: 2401

Hi Garey!!

It is sooo good to see you back on here.
Prayers answered.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> George -
>
> It sounds like the LO for the 3rd mixer is not starting reliably. I
> would start with DeOxit on the MODE switch, which among other things
> switches between two crystals for either AM or SSB.
>
> It's possible that V4 is weak, but more likely Q4 or the SSB crystal are
> weak.
>
> There are other possibilities, but I'd start with the switch cleaning
> and sub for V4 just because it's easy!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> g.graulich1@... wrote:
> > I have a problem after i tune up on any frequency on 75 meters. my problem is after tuneup and return it back to the SSB mode on the transmitter with the transceive switch in the separate mode the receive goes way off freq and if i turn the mode switch on the R-4C to AM and back to SSB it comes right back on frequency. Im useing the full C line. R-4C T-4XC MN2000 matcher and the W4 watt meter. I have the L-4B but im not using it when this happens. I checked for RF in the shack and that is not a problem. Also im using the shure 444D mike. All my interconnect cables are new. Please any help to put me in the right direction would be a great help. Thank in advance. Ps.. i will also get a high pitched tone comming from the R-4C speaker.
> >
> > George
> > KC2EPD
> > "73"
> >
> >

>

2402. Re: [DrakeRadio] Welcome back

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 21:00:14 UTC
From: GEORGE GRAULICH
Topic: 2397 Message: 2402

Garey, Get well soon sir were all pulling for ya. And ya dont have to type a long letter just an OK will be fine. Take care of yourself. George kc2epd,
--- On Mon, 9/21/09, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Welcome back
To: DrakeRadio@yahoogroups.com
Date: Monday, September 21, 2009, 10:53 AM

Hi Vic -

I'm "sorta" back. Typing is still a chore as my hands and arms are still weak and shake like mad with any effort. They shake just holding them over the keyboard, and they don't always hit the right keys! :-)

I had an aneurysm of the ascending aorta, the main "pipe" coming out of the top of the heart. It was about twice the diameter it should have been, and it seems they have a bad habit of "blowing", which is NOT good! The surgery was a snap, (a Dacron sleeve over the aorta (tire patch) and one bypass while he was in there. But I developed an infection a couple of days later and ended up "out" from June 25 through August 2. I got out of the hospital on August 13 and went to a rehab center until August 31 to try and rebuild a little muscle tone. I'm getting home therapy now, and am making progress.

The rule of thumb is that it takes 3 days of therapy for every day you are "down", so I still have a way to go. We have a hospital bed in the living room, but that should be gone next week. I've graduated to a cane from the walker. My chest looks like I've been attacked by a rabid cat, but the extra holes they punched are healing and the scars are fading.

So... I'm getting there, but it's a long road. When I went into the rehab hospital I was able to walk 12 feet with a walker, with a therapist following with a wheelchair for when I gave out. The day before I left, two and a half weeks later, I walked 450 feet with a walker.

I received a LOT of cards and prayers, and they were gratefully received. I don't know what others believe, but the prayers sure didn't hurt! The QSL cards and emails sure brightened some very long and tiresome days.

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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@tiscali. co.uk wrote:
> Hello Garey
>
> Delighted to see you back on the group. Don't know what your problem was but it must have been pretty extensive since you have been QRT since June. Again, chuffed to bits you're back.
>
> Loads of Drake probs here but if you want to lounge about all day in bed I'll put them aside until you're up to speed again!!
>
> Welcome back.
>
>
>
> Vic
>
> G4JSS
>

[Non-text portions of this message have been removed]

2403. Re: [DrakeRadio] Re: problem after tune

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-21 21:02:24 UTC
From: GEORGE GRAULICH
Topic: 2387 Message: 2403

Thanks again so much. Please be well

--- On Mon, 9/21/09, jb <xjjb4x4@yahoo.com> wrote:

From: jb <xjjb4x4@...>
Subject: [DrakeRadio] Re: problem after tune
To: DrakeRadio@yahoogroups.com
Date: Monday, September 21, 2009, 4:13 PM

Hi Garey!!

It is sooo good to see you back on here.
Prayers answered.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogro ups.com, Garey Barrell <k4oah@...> wrote:
>
> George -
>
> It sounds like the LO for the 3rd mixer is not starting reliably. I
> would start with DeOxit on the MODE switch, which among other things
> switches between two crystals for either AM or SSB.
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> It's possible that V4 is weak, but more likely Q4 or the SSB crystal are
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> There are other possibilities, but I'd start with the switch cleaning
> and sub for V4 just because it's easy!
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> 73, Garey - K4OAH
> Glen Allen, VA
>
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> g.graulich1@ ... wrote:
> > I have a problem after i tune up on any frequency on 75 meters. my problem is after tuneup and return it back to the SSB mode on the transmitter with the transceive switch in the separate mode the receive goes way off freq and if i turn the mode switch on the R-4C to AM and back to SSB it comes right back on frequency. Im useing the full C line. R-4C T-4XC MN2000 matcher and the W4 watt meter. I have the L-4B but im not using it when this happens. I checked for RF in the shack and that is not a problem. Also im using the shure

444D mike. All my interconnect cables are new. Please any help to put me in the right direction would be a great help. Thank in advance. Ps.. i will also get a high pitched tone comming from the R-4C speaker.
> >
> > George
> > KC2EPD
> > "73"
> >
> >
>

[Non-text portions of this message have been removed]

2404. R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 09:04:34 UTC
From: Victor
Topic: 594 Message: 2404

Hello all
Bit of a vague question here. Just give you a bit of history first. A couple of years ago I bought an R4C. The seller told me that the guy who he bought it from had told him that it had had some Sherwood mods but he didn't know what mods had been done.
In performance this particular Rx is much different to my other R4C - mainly the selectivity which is much sharper mainly on the pass band control which has a very narrow shut off.
Also, there is a toggle switch on the rear chassis which doesn't really seem to do anything.
Now the vague question. Is there something obvious I can look for which might give me an idea what (if any) Sherwood mod has been done?

73
Vic G4JSS

2405. Re: [DrakeRadio] R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 12:01:38 UTC
From: Larry Taft
Topic: 594 Message: 2405

Sherwood still offers the mods and has a ton on info on their web site.
www.sherweng.com
All the mods are shown and photos are avail in the instruction sheets.

73, Larry K2LT
drakerepair.com 800-687-9161

Victor wrote:
> Hello all
> Bit of a vague question here. Just give you a bit of history first. A couple of years ago I bought an R4C. The seller told me that the guy who he bought it from had told him that it had had some Sherwood mods but he didn't know what mods had been done.
> In performance this particular Rx is much different to my other R4C - mainly the selectivity which is much sharper mainly on the pass band control which has a very narrow shut off.
> Also, there is a toggle switch on the rear chassis which doesn't really seem to do anything.
> Now the vague question. Is there something obvious I can look for which might give me an idea what (if any) Sherwood mod has been done?
>
> 73
> Vic G4JSS
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

2406. Re: [DrakeRadio] R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 13:53:33 UTC
From: Roger White
Topic: 594 Message: 2406

If you e-mail Sherwood and send them pics of the inside of the radio, they can help identify their mods if possible. I did that to the Sherwood modified R4C I had and it was a great help identifying the mods I had. Bob Sherwood himself e-mailed me back with the details of my radio after seeing the pics.

Roger W5RDW
Murphy, Texas
----- Original Message -----
From: Larry Taft
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, September 23, 2009 7:01 AM
Subject: Re: [DrakeRadio] R-4C

Sherwood still offers the mods and has a ton on info on their web site.
www.sherweng.com
All the mods are shown and photos are avail in the instruction sheets.

73, Larry K2LT
drakerepair.com 800-687-9161

Victor wrote:
> Hello all
> Bit of a vague question here. Just give you a bit of history first. A couple of years ago I bought an R4C. The seller told me that the guy who he bought it from had told him that it had had some Sherwood mods but he didn't know what mods had been done.
> In performance this particular Rx is much different to my other R4C - mainly the selectivity which is much sharper mainly on the pass band control which has a very narrow shut off.
> Also, there is a toggle switch on the rear chassis which doesn't really seem to do anything.
> Now the vague question. Is there something obvious I can look for which might give me an idea what (if any) Sherwood mod has been done?
>
> 73
> Vic G4JSS
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

[Non-text portions of this message have been removed]

2407. Re: [DrakeRadio] R-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 14:58:44 UTC
From: g4jss@tiscali.co.uk
Topic: 594 Message: 2407

Hi Bob and Larry

Thanks for info.

Going to give it a go with Bob Sherwood - Just hope my camera work is good enough for him to take an interest.

I know the Rx is good and I know that somewhere along the line something has stepped it up but I sure would like to find out why. It's a bit like looking at a picture in the dark - you can see the vague outline but not the finer details!!

Cheers

Vic

Forget the rest, get the best - http://www.tiscali.co.uk/music

[Non-text portions of this message have been removed]

2408. Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 23:20:21 UTC
From: Chip Miller
Topic: 2408 Message: 2408

I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is out of alignment and the audio is just not right. Any recommendation on a repair facility that could bring it up to factory specifications would be appreciated.
Thanks and 73's,
WD5DUE...Chip

[Non-text portions of this message have been removed]

2409. Re: [DrakeRadio] Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-23 23:27:42 UTC
From: jimc@pwrone.com
Topic: 2408 Message: 2409

Call Jeff Covelli WA8SAJ
His contact info is on Ron Baker's web site
73
Jim N9WW

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Chip Miller <chip49@...>

Date: Wed, 23 Sep 2009 18:20:21
To: <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] Repair Facility Recommendation

I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is out of alignment and the audio is just not right. Any recommendation on a repair facility that could bring it up to factory specifications would be appreciated.
Thanks and 73's,
WD5DUE...Chip

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2410. Re: Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 07:54:41 UTC
From: jshea_n4dsp
Topic: 2408 Message: 2410

Ron Baker, WB4HFN, in Derry, NH. His website is
http://www.wb4hfn.com/Services/WB4HFN/RepairHomePage.htm

OR

www.wb4hfn.com

Ron refurbished and aligned a T-4XB transmitter for a very reasonable fee. During the process he found a bad capacitor, and a mechanical problem with the meter which were unknown to me at the time. He is cordial, respectful, and a pleasure to deal with.

john-n4dsp

--- In DrakeRadio@yahoogroups.com, Chip Miller <chip49@...> wrote:
>
> I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is
> out of alignment and the audio is just not right. Any recommendation on a
> repair facility that could bring it up to factory specifications would be
> appreciated.
> Thanks and 73's,
> WD5DUE...Chip
>
>
> [Non-text portions of this message have been removed]
>

2411. T-4XB carrier null pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 07:55:21 UTC
From: Richard Knoppow
Topic: 2411 Message: 2411

I have been fighting a carrier null problem for some
time. I discovered tonight that the null pot, R-4, measures
about 450 ohms rather than the 200 ohms indicated in the
schematic. It does not appear to be open. Is it possible
that some transmitters had 450 ohm pots in them?
If this is a bad guy is there a souce for replacements?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2412. Re: [DrakeRadio] Re: Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 14:58:04 UTC
From: chip49@gmail.com
Topic: 2408 Message: 2412

Thanks for the recommendations...73's Chip WD5DUE
Sent via BlackBerry by AT&T

-----Original Message-----
From: "jshea_n4dsp" <jshea109@...>

Date: Thu, 24 Sep 2009 07:54:41
To: <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] Re: Repair Facility Recommendation

Ron Baker, WB4HFN, in Derry, NH. His website is
http://www.wb4hfn.com/Services/WB4HFN/RepairHomePage.htm

OR

www.wb4hfn.com

Ron refurbished and aligned a T-4XB transmitter for a very reasonable fee. During the process he found a bad capacitor, and a mechanical problem with the meter which were unknown to me at the time. He is cordial, respectful, and a pleasure to deal with.

john-n4dsp

--- In DrakeRadio@yahoogroups.com, Chip Miller <chip49@...> wrote:
>
> I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is
> out of alignment and the audio is just not right. Any recommendation on a
> repair facility that could bring it up to factory specifications would be
> appreciated.
> Thanks and 73's,
> WD5DUE...Chip
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

2413. Service manual for B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 16:56:06 UTC
From: jshea_n4dsp
Topic: 2413 Message: 2413

Is there such a thing?

john

2414. Re: [DrakeRadio] Service manual for B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 17:24:46 UTC
From: Garey Barrell
Topic: 2413 Message: 2414

John -

See www.k4oah.com.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Is there such a thing?
>
> john
>
>
>

2415. Re: Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 21:06:16 UTC
From: Patricia
Topic: 2408 Message: 2415

Hi Chip,

I have my TR4C sitting in a box - just returned from:
Mike@Affordable Radio Repair

Mike Alexander in Colorado.

Good turn around, good price and excellent communication.

Patricia Turpin
AB4CT

ps I've had mine since the early 1980's.

--- In DrakeRadio@yahoogroups.com, Chip Miller <chip49@...> wrote:
>
> I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is
> out of alignment and the audio is just not right. Any recommendation on a
> repair facility that could bring it up to factory specifications would be
> appreciated.
> Thanks and 73's,
> WD5DUE...Chip
>
>
> [Non-text portions of this message have been removed]
>

2416. Need Part for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 21:27:11 UTC
From: jshea_n4dsp
Topic: 2416 Message: 2416

Is there a source for an antenna jack which is located on the back panel of the R-4B? Mine is worn out and the slightest movement causes a disruption in receive. I have tried other cables both new and old.

thanks.
john

2417. Re: Service manual for B line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 21:58:14 UTC
From: jshea_n4dsp
Topic: 2413 Message: 2417

Thanks Garey. I will be in touch.

73
john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> See www.k4oah.com.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>

2418. Re: [DrakeRadio] Need Part for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-24 22:04:02 UTC
From: Richard Knoppow
Topic: 2416 Message: 2418

----- Original Message -----
From: "jshea_n4dsp" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, September 24, 2009 2:27 PM
Subject: [DrakeRadio] Need Part for R-4B

> Is there a source for an antenna jack which is located on
> the back panel of the R-4B? Mine is worn out and the
> slightest movement causes a disruption in receive. I have
> tried other cables both new and old.
>
> thanks.
> john
>
Isn't this a standard RCA jack? If it is you can
probably get it working again by squeezing the center
terminal with a pair of pliers. Unless its some really
special part you should be able to get a replacement at
Radio Shack or other parts store although those seem to
mount with a nut rather than a bracket and screws.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2420. Re: [DrakeRadio] Re: Need Part for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-25 01:36:10 UTC
From: Garey Barrell
Topic: 2416 Message: 2420

John -

Perhaps a SHORTED cable?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Thanks for the info Richard but after doing that I realized that is not the problem. Whenever the ground of the jack is in contact with the ground of the plug it practically mutes the receiver. Pulling the jack out so the only contact is the tip of the jack do I have full receiver output. Hmmmm.
>
> john
>
>
>> Isn't this a standard RCA jack? If it is you can
>> probably get it working again by squeezing the center
>> terminal with a pair of pliers. Unless its some really
>> special part you should be able to get a replacement at
>> Radio Shack or other parts store although those seem to
>> mount with a nut rather than a bracket and screws.
>>
>>
>> --
>> Richard Knoppow
>> Los Angeles
>> WB6KBL
>> dickburk@...
>>

2421. Re: WB6KBL - B series CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-25 01:46:38 UTC
From: Garey Barrell
Topic: 2421 Message: 2421

My message to your address bounced so I'll try this.

73, Garey - K4OAH
Glen Allen, VA
Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>Richard -

PayPal for $25 to k4oah@...

Cash, check or Money Order to

Garey Barrell, K4OAH
10912 Virginia Forest Ct
Glen Allen, VA 23060

Thank you!

Garey - K4OAH

Richard Knoppow wrote:
> How do I go about actually ordering this?
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

2422. Re: Need Part for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-25 01:48:55 UTC
From: jshea_n4dsp
Topic: 2416 Message: 2422

That is what it was Garey. Thanks.

john

--- In DrakeRadio@...m, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Perhaps a SHORTED cable?
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>

2423. Re: [DrakeRadio] Re: WB6KBL - B series CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-25 05:38:16 UTC
From: Richard Knoppow
Topic: 2421 Message: 2423

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, September 24, 2009 6:46 PM
Subject: [DrakeRadio] Re: WB6KBL - B series CD

> My message to your address bounced so I'll try this.
>
>
It was my spam blocker and I unblocked you. This is a
different address than I use for the list, which does not go
through the blocker. Future e-mails will go through.
I've ordered a disc, it sounds like its _very_ useful.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2424. How much

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-25 12:59:35 UTC
From: amfone20000
Topic: 2424 Message: 2424

Wonder how much a TR4C without the AC4 should sell for. S/N 37497, I think that makes it an early TR4C. I buying not selling. Seller says he has used it on receive but not transmit as he does not have a method to do so.

Thanks

2425. Re: Repair Facility Recommendation

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-27 22:21:51 UTC
From: mvaughanusm81
Topic: 2408 Message: 2425

Just putting my 2 cents in also, but Ron Baker impressed me with his professional courtesy, he was very quick to answer back any email and gave good feedback about what was wrong and had to be changed. Highly recommended!
Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Ron Baker, WB4HFN, in Derry, NH. His website is
http://www.wb4hfn.com/Services/WB4HFN/RepairHomePage.htm
>
> OR
>
> www.wb4hfn.com
>
> Ron refurbished and aligned a T-4XB transmitter for a very reasonable fee. During the process he found a bad capacitor, and a mechanical problem with the meter which were unknown to me at the time. He is cordial, respectful, and a pleasure to deal with.
>
> john-n4dsp
>
>
> --- In DrakeRadio@yahoogroups.com, Chip Miller <chip49@> wrote:
> >
> > I have a 1977 TR4Cw that I purchased new in 1977. My rig tunes up but it is
> > out of alignment and the audio is just not right. Any recommendation on a
> > repair facility that could bring it up to factory specifications would be
> > appreciated.
> > Thanks and 73's,
> > WD5DUE...Chip
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2427. Re: [DrakeRadio] Check out my photos on Facebook

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-28 21:38:59 UTC
From: Joe
Topic: 2427 Message: 2427

Mark, and everyone else!!

This type of group solicitation post is not wanted here. If you wish to be a part of any of those groups, join on your own, but DO NOT include DrakeRadio. If this happens again, I guarantee it will result in a fast track out the back door.

I cannot emphasize this enough.

Thanks for understanding...

Joe Wolfe WA6RKN
Assistant moderator

----- Original Message -----
From: "Mark Helinski" <marksbuffalobills@...>
Subject: [DrakeRadio] Check out my photos on Facebook

>
> I set up a Facebook profile where I can post my pictures, videos and events and I want to add you as a friend so you can see it. First, you need to join Facebook! Once you join, you can also create your own profile.

[Non-text portions of this message have been removed]

2428. RE: [DrakeRadio] Check out my photos on Facebook

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-28 22:08:34 UTC
From: Jim Chaggaris
Topic: 2427 Message: 2428

Well said Joe.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

The information contained in this message is intended only for the personal and confidential use of the recipient(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify PowerOne Corporation immediately, and delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Joe
Sent: Monday, September 28, 2009 4:39 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Check out my photos on Facebook

Mark, and everyone else!!

This type of group solicitation post is not wanted here. If you wish to be a part of any of those groups, join on your own, but DO NOT include DrakeRadio. If this happens again, I guarantee it will result in a fast track out the back door.

I cannot emphasize this enough.

Thanks for understanding...

Joe Wolfe WA6RKN
Assistant moderator

----- Original Message -----
From: "Mark Helinski" <marksbuffalobills@...
<mailto:marksbuffalobills%40yahoo.com> >
Subject: [DrakeRadio] Check out my photos on Facebook

>
> I set up a Facebook profile where I can post my pictures, videos and
events and I want to add you as a friend so you can see it. First, you need
to join Facebook! Once you join, you can also create your own profile.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2429. RE: [DrakeRadio] Check out my photos on Facebook

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-09-29 07:55:24 UTC
From: g4jss@tiscali.co.uk
Topic: 2427 Message: 2429

And I second that.

Vic

G4JSS

Forget the rest, get the best - http://www.tiscali.co.uk/music

[Non-text portions of this message have been removed]

2431. Facebook

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-01 09:36:57 UTC
From: David Rose
Topic: 2431 Message: 2431

Amen to that brother!

Dave KW1V

[Non-text portions of this message have been removed]

2432. Re: [DrakeRadio] Re: Check out my photos on Facebook

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-01 20:25:55 UTC
From: GEORGE GRAULICH
Topic: 2427 Message: 2432

Echolink ? whats Echolink LOL.

--- On Thu, 10/1/09, jshea_n4dsp <jshea109@triad.rr.com> wrote:

From: jshea_n4dsp <jshea109@...>
Subject: [DrakeRadio] Re: Check out my photos on Facebook
To: DrakeRadio@yahoogroups.com
Date: Thursday, October 1, 2009, 2:01 AM

Amen to that!
Next thing people will be advocating how great
Echolink is.

john

--- In DrakeRadio@yahoogro ups.com, Joe <WA6RKN@...> wrote:
>
> Mark, and everyone else!!
>
> This type of group solicitation post is not wanted here. If you wish to be a part of any of those groups, join on your own, but DO NOT include DrakeRadio. If this happens again, I guarantee it will result in a fast track out the back door.
>
> I cannot emphasize this enough.
>
> Thanks for understanding. ..
>
> Joe Wolfe WA6RKN
> Assistant moderator

[Non-text portions of this message have been removed]

2433. Echolink

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-01 21:10:22 UTC
From: Dan Galligan
Topic: 2433 Message: 2433

I wouldn't say that Echolink is fantastic, or such, but it does have some good application, in limited scope. I am a cross country truck driver, and it gives me the ability to connect with my buddies in my local repeater group, when I wish to do so. So, for the person who travels frequently, and wishes to remain in contact with folks, some of whom are not capable of HF, all at the same time, it then becomes a useful tool. But, for the member of that local repeater group, who has to put up with the incessant "contacts" by people pretending to be making some sort of DX contact, it is more hassle, than help. I am thankful that my local repeater group has it, but often wonder why they put up with all of the other contacts, just to let me, and a couple of other friends of members, connect.

Daniel Galligan

w3rxo (at) mac (dot) com

When the last dutiful & humble petition from Congress received no other answer than declaring us rebels, and out of the King?s protection, I from that moment look?d forward to a revolution & independence, as the only means of salvation; and will risque the last penny of my fortune, & the last drop of my blood upon the issue.

George Mason,

2 October 1778

[Non-text portions of this message have been removed]

2435. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-04 19:20:02 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2435

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2436. Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-04 23:18:05 UTC
From: djv5
Topic: 2436 Message: 2436

Hi all,

Need to find a original size mic jack for my T-4XB as someone has replaced it with a standard 1/4 inch one.

Anyone have one from a parts set or can point me in the direction where I can find one?

Also where is the best place these days to buy 6JB6's?

Thanks,
Dave, K8DV

2437. Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-04 23:17:51 UTC
From: djv5
Topic: 2436 Message: 2437

Hi all,

Need to find a original size mic jack for my T-4XB as someone has replaced it with a standard 1/4 inch one.

Anyone have one from a parts set or can point me in the direction where I can find one?

Also where is the best place these days to buy 6JB6's?

Thanks,
Dave, K8DV

2438. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-04 23:37:01 UTC
From: amfone
Topic: 2436 Message: 2438

I think the T4XB and C used a standard quarter inch jack.

Tim

From: djv5 <k8dv@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 4, 2009 7:17:51 PM
Subject: [DrakeRadio] Need mic jack for T-4XB transmitter

Hi all,

Need to find a original size mic jack for my T-4XB as someone has replaced it with a standard 1/4 inch one.

Anyone have one from a parts set or can point me in the direction where I can find one?

Also where is the best place these days to buy 6JB6's?

Thanks,
Dave, K8DV

[Non-text portions of this message have been removed]

2439. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:02:11 UTC
From: Richard Knoppow
Topic: 2436 Message: 2439

----- Original Message -----
From: "amfone" <amfone20000@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, October 04, 2009 4:37 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB
transmitter

> I think the T4XB and C used a standard quarter inch jack.
>
> Tim
>
>

I thought the B series used the aircraft/Collins size
but mine has a 1/4" stereo jack. Makes it much easier to
find plugs since you can get them in any Radio Shack. Mine
appears to be a factory installation.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2440. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:06:01 UTC
From: amfone
Topic: 2436 Message: 2440

Yes my T4XC uses the 1/4 inch jack too. I know the TR4C series used the smaller Collins jack.

Tim

From: Richard Knoppow <1oldlens1@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 4, 2009 9:02:11 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB transmitter

----- Original Message -----
From: "amfone" <amfone20000@ yahoo.com>
To: <DrakeRadio@yahoogro ups.com>
Sent: Sunday, October 04, 2009 4:37 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB
transmitter

> I think the T4XB and C used a standard quarter inch jack.
>
> Tim
>
>

I thought the B series used the aircraft/Collins size
but mine has a 1/4" stereo jack. Makes it much easier to
find plugs since you can get them in any Radio Shack. Mine
appears to be a factory installation.

--
Richard Knoppow
LosAngeles
WB6KBL
dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

2441. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:34:22 UTC
From: K5vse-Mike
Topic: 2436 Message: 2441

Drake T4-X and most all Drake gear uses the .209 plug and jacks. I have 6 different Drake transmitters.
Mouser was stocking them both.
73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2442. Re: [DrakeRadio] Need mic jack for T-4XB transmitter C-line with .210"mic jack

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:38:09 UTC
From: Kris Merschrod
Topic: 2436 Message: 2442

My TX-4C uses the .210" mic jack (on the back upper left). It looks origina. It has serial number 27555 with a date stamp of 28 MAR 1977 on the inspection tag.

Kris (KA2OIG)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: amfone
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 04, 2009 9:06 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yes my T4XC uses the 1/4 inch jack too. I know the TR4C series used the smaller Collins jack.

Tim

From: Richard Knoppow <1oldlens1@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 4, 2009 9:02:11 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB transmitter

----- Original Message -----
From: "amfone" <amfone20000@ yahoo.com>
To: <DrakeRadio@yahoogro ups.com>
Sent: Sunday, October 04, 2009 4:37 PM
Subject: Re: [DrakeRadio] Need mic jack for T-4XB
transmitter

> I think the T4XB and C used a standard quarter inch jack.
>
> Tim
>
>

I thought the B series used the aircraft/Collins size
but mine has a 1/4" stereo jack. Makes it much easier to
find plugs since you can get them in any Radio Shack. Mine
appears to be a factory installation.

--
Richard Knoppow

LosAngeles
WB6KBL
dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2443. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:36:51 UTC
From: K5vse-Mike
Topic: 2436 Message: 2443

Any Drake you find with a 1/4" jack has been modified. They use a .209,
similar to Collins. Mouser was stocking plugs and jacks.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

2444. RE: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 01:48:23 UTC
From: Jim Chaggaris
Topic: 2436 Message: 2444

It's a .206 mic jack

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of K5vse-Mike
Sent: Sunday, October 04, 2009 8:37 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Any Drake you find with a 1/4" jack has been modified. They use a .209, similar to Collins. Mouser was stocking plugs and jacks.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2445. T-4XB Dial Lamp voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 02:56:04 UTC
From: jshea_n4dsp
Topic: 2445 Message: 2445

Due to the small type I cannot read my schematic but I believe the #47 dial and S mtr lamps should have 6.3 VAC but I am reading 10.5V on the dial lamp. For some reason the bulb's light output is only putting out about 20% barely making the dial readings visible while the S mtr bulb has full output.
These are in series I believe so what could cause this? I do not have a voltage reading for the S mtr bulb.
Thank You.

john

2446. Re: [DrakeRadio] T-4XB Dial Lamp voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 03:06:18 UTC
From: Garey Barrell
Topic: 2445 Message: 2446

John -

I suspect perhaps an incorrect bulb in one of the sockets. Both must be
#47 bulbs

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Due to the small type I cannot read my schematic but I believe the #47 dial and S mtr lamps should have 6.3 VAC but I am reading 10.5V on the dial lamp. For some reason the bulb's light output is only putting out about 20% barely making the dial readings visible while the S mtr bulb has full output.
> These are in series I believe so what could cause this? I do not have a voltage reading for the S mtr bulb.
> Thank You.
>
> john
>
>
>

2447. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 03:17:16 UTC
From: Garey Barrell
Topic: 2436 Message: 2447

None of the T-4X series of transmitters came with 1/4" MIC jacks.
However, the 0.210" plugs were always more difficult to locate, even
back then, and as result many were changed 'in the field'.....

The Switchcraft S230 is available from Mouser, which is the right angle
plug for the side mount jack in the B series. The mating jack is a
Switchcraft S12B, also in stock at Mouser.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

amfone wrote:
> Yes my T4XC uses the 1/4 inch jack too. I know the TR4C series used the smaller Collins
jack.
>
> Tim
>
>
>
>
> _____
> From: Richard Knoppow <1oldlens1@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, October 4, 2009 9:02:11 PM
> Subject: Re: [DrakeRadio] Need mic jack for T-4XB transmitter
>
>
>
> ----- Original Message -----
> From: "amfone" <amfone20000@ yahoo.com>
> To: <DrakeRadio@yahoogro ups.com>
> Sent: Sunday, October 04, 2009 4:37 PM
> Subject: Re: [DrakeRadio] Need mic jack for T-4XB
> transmitter
>
>
>> I think the T4XB and C used a standard quarter inch jack.
>>
>> Tim
>>
>>
>>
>

> I thought the B series used the aircraft/Collins size
> but mine has a 1/4" stereo jack. Makes it much easier to
> find plugs since you can get them in any Radio Shack. Mine
> appears to be a factory installation.
>
> --
> Richard Knoppow
> LosAngeles
> WB6KBL
> dickburk@ix. netcom.com
>
>
>

2448. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 03:37:08 UTC
From: K5vse-Mike
Topic: 2436 Message: 2448

Sorry Garey,

I have always thought they were .209. Oh well, we all make mistakes.

Have a great week.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

2449. Re: Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 13:07:54 UTC
From: jshea_n4dsp
Topic: 2436 Message: 2449

I may have one or two around here if you are interested.

john

--- In DrakeRadio@yahoogroups.com, "K5vse-Mike" <k5vse@...> wrote:
>
> Sorry Garey,
>
> I have always thought they were .209. Oh well, we all make mistakes.
>
> Have a great week.
>
> 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
> "In God We Trust"
>
> [Non-text portions of this message have been removed]
>

2450. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 13:33:32 UTC
From: Garey Barrell
Topic: 2436 Message: 2450

Mike -

:-) Well actually the jack is specified as 0.21" or 0.0210 thousandths
and the plug is specified as 0.206".... I'm sure there ARE some that
are 0.0209 thousandths!

Bottom line, they ain't 0.25"!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

K5vse-Mike wrote:
> Sorry Garey,
>
> I have always thought they were .209. Oh well, we all make mistakes.
>
> Have a great week.
>
> 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
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>
>

2451. Re: [DrakeRadio] Need mic jack for T-4XB transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 15:39:33 UTC
From: K5vse-Mike
Topic: 2436 Message: 2451

Hey Garey,

The only thing I can tell ya is I use the old Military PJ-068 and
Switchcraft S-230 series. Yup, they aint 1/4"! ! !

Have a good one,

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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All email scanned with Norton 2009
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[Non-text portions of this message have been removed]

2452. Re: Need mic jack for T-4XB transmitter - Found

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-05 22:02:02 UTC
From: djv5
Topic: 2436 Message: 2452

Found what I was looking for, placed order with Mouser today. I had looked there before but was unable to locate but using the part number that Garey gave I found it with no problems.

It really is not a big deal except all my other Drake gear has the original size jack in them and like to use the same mic with all of them.

Thanks to the group for your help.

Dave, K8DV

--- In DrakeRadio@yahoogroups.com, "K5vse-Mike" <k5vse@...> wrote:
>
> Hey Garey,
>
> The only thing I can tell ya is I use the old Military PJ-068 and
> Switchcraft S-230 series. Yup, they aint 1/4"! ! !
>
> Have a good one,
>
> 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

2453. Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-06 18:35:47 UTC
From: jshea_n4dsp
Topic: 2453 Message: 2453

My T-4XB generates lot of heat from the finals and I hooked up an old new Radio Shack fan which now sits on the top of the finals. Performs well except for the noise. The size is 4 1/2" by 4 1/2". Anyone recommend a quieter fan and source?

Thank You

john

2454. Re: [DrakeRadio] Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-06 19:11:19 UTC
From: Garey Barrell
Topic: 2453 Message: 2454

John -

A lot of air is not necessary, just enough to suck the heated air out of the PA cage and blow it away from the area.

I usually put a small fan on the back of the PA cage, which helps the noise as well by directing the noise away!

There are several options. One is to use a small (3" square or so) 12 VDC computer fan. These are plentiful and cheap at hamfests or surplus dealers. Most are nearly silent, but can be quieted even further by applying less than 12 VDC to them. A half-wave diode and small filter cap on the filament voltage of the transmitter works well, and a small resistor can be selected to provide the voltage needed. Many shacks have a small 12 VDC supply to run all the peripheral equipment around these days, and with a resistor are suitable. Also, one of the ubiquitous wall wart supplies could be used.

There are 4 x 4 fans that are quiet. Whisper Fan by Rotron was one that was offered for HiFi systems back when they were full of tubes. The larger fans can be set on top of the cabinet on rubber bumpers, blowing air UP.

Another approach is to find a fan rated for 220 VAC and run it from 125 VAC to slow and quiet it down.

Again, just a little air _blowing OUT_ will reduce the PA temperature considerably.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> My T-4XB generates lot of heat from the finals and I hooked up an old new Radio Shack fan which now sits on the top of the finals. Performs well except for the noise. The size is 4 1/2" by 4 1/2". Anyone recommend a quieter fan and source?
>
> Thank You
>
> john
>
>

2455. Re: Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-06 19:30:28 UTC
From: jshea_n4dsp
Topic: 2453 Message: 2455

Thanks Garey.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> A lot of air is not necessary, just enough to suck the heated air out of
> the PA cage and blow it away from the area.
>
> I usually put a small fan on the back of the PA cage, which helps the
> noise as well by directing the noise away!
>
> There are several options. One is to use a small (3" square or so) 12
> VDC computer fan. These are plentiful and cheap at hamfests or surplus
> dealers. Most are nearly silent, but can be quieted even further by
> applying less than 12 VDC to them. A half-wave diode and small filter
> cap on the filament voltage of the transmitter works well, and a small
> resistor can be selected to provide the voltage needed. Many shacks
> have a small 12 VDC supply to run all the peripheral equipment around
> these days, and with a resistor are suitable. Also, one of the
> ubiquitous wall wart supplies could be used.
>
> There are 4 x 4 fans that are quiet. Whisper Fan by Rotron was one that
> was offered for HiFi systems back when they were full of tubes. The
> larger fans can be set on top of the cabinet on rubber bumpers, blowing
> air UP.
>
> Another approach is to find a fan rated for 220 VAC and run it from 125
> VAC to slow and quiet it down.
>
> Again, just a little air _blowing OUT_ will reduce the PA temperature
> considerably.
>
> 73, Garey - K4OAH
> Glen Allen, VA

2456. SPR 4 KNOBS and spr4 Product detecor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-07 04:04:15 UTC
From: w1fued@sbcglobal.net
Topic: 2456 Message: 2456

Does any one know where I could find the knobs for the crystal switch and the preselector tuning for the SPR 4?
I have heard they area available but cannot seems to find them.
The spr 4 I have came with heavy metal knobs (maybe Stainless) they must have been made and sold for the spr as the tuning knob matches the other two, very nice, but would like to go back to the original ones if possible.

Also I have just fitted the spr4 with the SHERWOOD designed product detector. While designed for the r4c, I put one in the spr4 It fits nicely inside. I have marked up drawing for installation if anyone is interested.
Thanks,
Ed

2457. Re: Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-07 13:35:40 UTC
From: Ralph
Topic: 2453 Message: 2457

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> My T-4XB generates lot of heat from the finals and I hooked up an old new Radio Shack fan which now sits on the top of the finals. Performs well except for the noise. The size is 4 1/2" by 4 1/2". Anyone recommend a quieter fan and source?
>
> Thank You
>
> john
>

Find an old computer power supply. Most have 12 volt dc fans in them. Then get a wall cube. Maybe one at even reduced voltage from 12 volts to slow the fan some.

2458. Re: Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-07 17:21:42 UTC
From: jshea_n4dsp
Topic: 2453 Message: 2458

Thanks Ralph, Garey for the information. On my way to the local computer store where I found a couple to fit my needs.

john

> Find an old computer power supply. Most have 12 volt dc fans in them. Then get a wall cube. Maybe one at even reduced voltage from 12 volts to slow the fan some.
>

2459. Re: Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 12:44:26 UTC
From: floydsense
Topic: 2453 Message: 2459

As you may already know, there's a vast difference in noise level produced by available 12VDC fans for PCs. For my TR7, I bought a fan from one of the PC sites dedicated to super-quiet PCs and then installed a thermostatically controlled circuit that turns the fan off when the temperature of the air stream (or heat sink in the TR7 case) falls below an adjustable value. Google "super quiet PCs" for sites dealing with PC noise. I built the thermostat controller on a little piece of perf board about 1" x 1.5" that could be mounted on the side of the fan housing in the case of the T4XB.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> My T-4XB generates lot of heat from the finals and I hooked up an old new Radio Shack fan which now sits on the top of the finals. Performs well except for the noise. The size is 4 1/2" by 4 1/2". Anyone recommend a quieter fan and source?
>
> Thank You
>
> john
>

2460. TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 13:04:03 UTC
From: wilderness4two
Topic: 2460 Message: 2460

Greatings from a new Drake owner. I'm getting a tr4 from a friend sometime next wk I hope. I'm a MARS member & don't have a radio that will go on freqs between 3 & 3.5 MC. Can I change the 80 meter xtal to allow me to operate the radio on these freqs ?

If so what's involved, new xtal & retuning ? R xtals available these days ????

Tnx,
Butch
KA4MIC
nnn0zei

2461. Re: [DrakeRadio] TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 15:36:04 UTC
From: Jim K5JG
Topic: 2460 Message: 2461

The TR4 does not use a crystal for the 80m or 20m bands. The operating frequency on those bands is determined by mixing the 5 - 5.5 MHz output from the PTO (VFO) and the 9 MHz IF output.

As far as I know, you're out of luck.

73, Jim K5JG

wilderness4two wrote:
> Greatings from a new Drake owner. I'm getting a tr4 from a friend sometime next wk I hope. I'm a MARS member & don't have a radio that will go on freqs between 3 & 3.5 MC. Can I change the 80 meter xtal to allow me to operate the radio on these freqs ?
>
> If so what's involved, new xtal & retuning ? R xtals available these days ????
>
> Tnx,
> Butch
> KA4MIC
> nnn0zei
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

2462. T-4XC Remains keyed in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 15:48:36 UTC
From: Dave
Topic: 2462 Message: 2462

My T-4XC is staying keyed all of a sudden in CW.When I pull the 6FQ7 tube it un-keys, so I replaced it. Still stays keyed. i just re-built the AC-4 last December with the upgrade kit so I don't think it's a bias problem.
Any ideas?
Thanks
Wink
WA8KOQ

2463. Re: [DrakeRadio] TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 15:54:29 UTC
From: Cameraman
Topic: 2460 Message: 2463

Dag Nabit.....These modern radios !!!!!!!!!!!!!!!!!!!! Seems like I've also heard tell of some kinda aux vfo dodad that u can hook up to some drakes to get um out of band. Probably a rare collector's item.
Tnx,
b
----- Original Message -----
From: Jim K5JG
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 10, 2009 11:36 AM
Subject: Re: [DrakeRadio] TR4 out of band mod ?

The TR4 does not use a crystal for the 80m or 20m bands. The operating
frequency on those bands is determined by mixing the 5 - 5.5 MHz output
from the PTO (VFO) and the 9 MHz IF output.

As far as I know, you're out of luck.

73, Jim K5JG

wilderness4two wrote:
> Greatings from a new Drake owner. I'm getting a tr4 from a friend sometime next wk I hope. I'm a MARS member & don't have a radio that will go on freqs between 3 & 3.5 MC. Can I change the 80 meter xtal to allow me to operate the radio on these freqs ?
>
> If so what's involved, new xtal & retuning ? R xtals available these days ????
>
> Tnx,
> Butch
> KA4MIC
> nnn0zei
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2464. Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 16:13:48 UTC
From: jshea_n4dsp
Topic: 2464 Message: 2464

Anyone using one of these for the drake? I find much loss when narrowing the bandwidth on the B. I remember the heathkits, the ones that look like a lunchbox, and they did a very good job for those rigs we had back then. They would plug into the 455 IF. I do not think the timewave 599zx or other external audio dsp filters would work.

john

2465. Re: [DrakeRadio] TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 16:14:51 UTC
From: Garey Barrell
Topic: 2460 Message: 2465

Butch -

Any of the 4 Series _separates_ will cover 3.0 to 3.5 MHz (or any other 500 kHz range from 1.5 - 30 MHz) with the simple addition of a crystal for 11.1 MHz above the low end of the coverage, or 14.1 MHz for 3.0 - 3.5.

None of the 3/4 Series _ transceivers_ will cover additional ranges without major retuning or even modification.

The 5/7 Series will cover 1.5 - 30 MHz with only minor modification or with an optional accessory card.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Cameraman wrote:
> Dag Nabit.....These modern radios !!!!!!!!!!!!!!!!!!!! Seems like I've also heard tell of some kinda aux vfo dodad that u can hook up to some drakes to get um out of band. Probably a rare collector's item.
> Tnx,
> b
> ----- Original Message -----
> From: Jim K5JG
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 10, 2009 11:36 AM
> Subject: Re: [DrakeRadio] TR4 out of band mod ?
>
>
> The TR4 does not use a crystal for the 80m or 20m bands. The operating
> frequency on those bands is determined by mixing the 5 - 5.5 MHz output
> from the PTO (VFO) and the 9 MHz IF output.
>
> As far as I know, you're out of luck.
>
> 73, Jim K5JG
>
> wilderness4two wrote:
> > Greatings from a new Drake owner. I'm getting a tr4 from a friend sometime next wk I hope. I'm a MARS member & don't have a radio that will go on freqs between 3 & 3.5 MC. Can I change the 80 meter xtal to allow me to operate the radio on these freqs ?
> >
> > If so what's involved, new xtal & retuning ? R xtals available these days ????

> >
> > Tnx,
> > Butch
> > KA4MIC
> > nnn0zei
> >
>
>

2466. Re: [DrakeRadio] TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 17:12:07 UTC
From: Cameraman
Topic: 2460 Message: 2466

Great....now all I need is a couple more boat anchors & I'll be all fixed up. Anybody wanna trade on a Hammarlund ???
tnx Garey,
b
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 10, 2009 12:14 PM
Subject: Re: [DrakeRadio] TR4 out of band mod ?

Butch -

Any of the 4 Series _separates_ will cover 3.0 to 3.5 MHz (or any other 500 kHz range from 1.5 - 30 MHz) with the simple addition of a crystal for 11.1 MHz above the low end of the coverage, or 14.1 MHz for 3.0 - 3.5.

None of the 3/4 Series _ transceivers_ will cover additional ranges without major retuning or even modification.

[Non-text portions of this message have been removed]

2467. Re: [DrakeRadio] T-4XC Remains keyed in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 19:59:45 UTC
From: Garey Barrell
Topic: 2462 Message: 2467

Wink -

First try bypassing C107 with whatever electrolytic you have more than 40-50 uF. If that doesn't fix it, check voltages on CR15. This voltage must be -0.6VDC under key-up conditions.

If no luck, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

Dave wrote:
> My T-4XC is staying keyed all of a sudden in CW.When I pull the 6FQ7 tube it un-keys, so I replaced it. Still stays keyed. i just re-built the AC-4 last December with the upgrade kit so I don't think it's a bias problem.
> Any ideas?
> Thanks
> Wink
> WA8KOQ
>
>
>

2468. Re: [DrakeRadio] Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 20:04:26 UTC
From: Garey Barrell
Topic: 2464 Message: 2468

John -

There should be little or no loss in the 500 Hz filter position. I
suspect your Passband tuner needs alignment, or possibly repair. The
alignment is described in the manual, and additional information in the CD.

The Q-Multiplier should work, and will give you even narrower bandwidths
at the peak, but I'm not sure it's worth the effort or modification.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Anyone using one of these for the drake? I find much loss when narrowing the bandwidth on the B. I remember the heathkits, the ones that look like a lunchbox, and they did a very good job for those rigs we had back then. They would plug into the 455 IF. I do not think the timewave 599zx or other external audio dsp filters would work.
>
> john
>
>

2469. Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 20:57:07 UTC
From: captcurt2000
Topic: 2464 Message: 2469

I used to use the Q mult on the 2A I had but it never had the narrow cw filters. I cant imagine ever needing a Q mult on the R xx . Like Garey indicated, it saounds like something isnt functioning quite right.

Curt R-4a daily driver
KU8L

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Anyone using one of these for the drake? I find much loss when narrowing the bandwidth on the B. I remember the heathkits, the ones that look like a lunchbox, and they did a very good job for those rigs we had back then. They would plug into the 455 IF. I do not think the timewave 599zx or other external audio dsp filters would work.
>
> john
>

2470. Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 21:27:03 UTC
From: jshea_n4dsp
Topic: 2464 Message: 2470

Thanks Gary, Curt. Looking at the receiver.

73
john

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> I used to use the Q mult on the 2A I had but it never had the narrow cw filters. I cant imagine ever needing a Q mult on the R xx . Like Garey indicated, it saounds like something isnt functioning quite right.
>
> Curt R-4a daily driver
> KU8L

2471. Re: [DrakeRadio] TR4 out of band mod ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-10 23:12:54 UTC
From: Cameraman
Topic: 2460 Message: 2471

What can one expect to pay for a decent set of twins these days ?

I really could use the extended coverage & I REALLY don't want a modern computer in a cigar box radio. I've been eyeing Ten Tec Paragons for some time. They don't have a great reputation amoung the discriminating & they seem to go for abt $650. I dunno ..... I'm open to suggestions.

b

[Non-text portions of this message have been removed]

2472. Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-11 02:19:14 UTC
From: w1fued@sbcglobal.net
Topic: 2464 Message: 2472

Hi,

I Agree that an audio filter , dsp or not, will ever be as good as if filtering, but that being said, I have used a timewave 59+ with great results on all kinds of old rigs, triton 4, argonaut 505, even on the old s20r. The worse the selectivity the better "it works".
I leave the 59+ on my r4b and works very well and enhances the signal and gets rid of all kinds of crud on cw. Even the noise reduction works a good bit. The effect of the 59+ on the r4c with the narrower filters,is very little.
I picked up the 59 + cheap and find it very effective, but recently found a couple of old heath q multipliers for 10 bux a piece, put one on the s-20r another on the 2a and the results were dramatic, you could almost use the s-20r for a cw contact on 80 or 40. I also have one on the 2b.
All that being said, as others have pointd out, sounds like you have a signal loss somewhere on the Drake 4.
ED

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Anyone using one of these for the drake? I find much loss when narrowing the bandwidth on the B. I remember the heathkits, the ones that look like a lunchbox, and they did a very good job for those rigs we had back then. They would plug into the 455 IF. I do not think the timewave 599zx or other external audio dsp filters would work.
>
> john
>

2473. Re: [DrakeRadio] Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-11 05:17:00 UTC
From: Jim Shorney
Topic: 2464 Message: 2473

On Sun, 11 Oct 2009 02:19:14 -0000, w1fued@... wrote:

> The effect of the 59+ on the r4c with the narrower filters,is very little.

That's an interesting tidbit. Earlier this year I latched onto a ClearSpeech Base, and connected it to my TR7. It is nothing short of amazing with static on 75 meter fone, but I notice that the noise reduction works better quite often with wider IF bandwidths. It gets even more interesting when I run a QF-1A ahead of it. It seems the thing needs more noise to remove noise better.

73

-Jim (got a Heathkit QM I'm gonna hook up to my 2A someday)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2474. Re: [DrakeRadio] Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-11 18:30:22 UTC
From: Richard Knoppow
Topic: 2464 Message: 2474

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, October 10, 2009 10:17 PM
Subject: Re: [DrakeRadio] Re: Q Multiplier for R-4B

> On Sun, 11 Oct 2009 02:19:14 -0000, w1fued@...
> wrote:
>
>> The effect of the 59+ on the r4c with the narrower
>> filters,is very little.
>
>
> That's an interesting tidbit. Earlier this year I latched
> onto a ClearSpeech
> Base, and connected it to my TR7. It is nothing short of
> amazing with static on
> 75 meter fone, but I notice that the noise reduction works
> better quite often
> with wider IF bandwidths. It gets even more interesting
> when I run a QF-1A
> ahead of it. It seems the thing needs more noise to remove
> noise better.
>
> 73

I am a little puzzled and perhaps should re-read the
thread. Is this a filter for the detected audio or one that
works in the IF?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2475. Re: [DrakeRadio] Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-11 23:56:53 UTC
From: Jim Shorney
Topic: 2464 Message: 2475

On Sun, 11 Oct 2009 11:30:22 -0700, Richard Knoppow wrote:

>I am a little puzzled and perhaps should re-read the
>thread. Is this a filter for the detected audio or one that
>works in the IF?

Audio.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2476. Re: [DrakeRadio] Re: Q Multiplier for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-12 03:53:26 UTC
From: Richard Knoppow
Topic: 2464 Message: 2476

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, October 11, 2009 4:56 PM
Subject: Re: [DrakeRadio] Re: Q Multiplier for R-4B

> On Sun, 11 Oct 2009 11:30:22 -0700, Richard Knoppow wrote:
>
>>I am a little puzzled and perhaps should re-read the
>>thread. Is this a filter for the detected audio or one
>>that
>>works in the IF?
>
>
> Audio.
>
> 73
>
> -Jim
>
Thanks.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2477. Re: T-4XC Remains keyed in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-12 18:08:46 UTC
From: Dave
Topic: 2462 Message: 2477

Garey -
Turns out my keyer took a hit on the grid block keying out put,
I found out when I got out my 2-NT to hook up. I was getting ready to replace C107 (I have one from Hayseed but haven't put it in yet)
When I thought would check the ol T-4XC one more time with just a straight key plugged in.
I'm embarresed it was the keyer and I didn't think to check it hi hi.
Thanks for the tip es 73

WINK
WA8KOQ
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> First try bypassing C107 with whatever electrolytic you have more than
> 40-50 uF. If that doesn't fix it, check voltages on CR15. This voltage
> must be -0.6VDC under key-up conditions.
>
> If no luck, let us know!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> Dave wrote:
> > My T-4XC is staying keyed all of a sudden in CW.When I pull the 6FQ7 tube it un-keys, so I replaced it. Still stays keyed. i just re-built the AC-4 last December with the upgrade kit so I don't think it's a bias problem.
> > Any ideas?
> > Thanks
> > Wink
> > WA8KOQ
> >
> >
> >
>

2478. Re: [DrakeRadio] Re: T-4XC Remains keyed in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-12 19:37:45 UTC
From: g4jss@tiscali.co.uk
Topic: 2462 Message: 2478

Hi

Were you by any chance trying to key it with the positive keying outlet from the keyer and not the grid block? With the positive keying outlet you get continual key down on the T-4XC. I know, I've done it and spent ages wondering what the hell was wrong when all it needed was shifting the phono jack to grid block.

One of the problems these days is that modern keyers only cater for solid state and don't have a grid block outlet.

Cheers

Vic

Forget the rest, get the best - http://www.tiscali.co.uk/music

[Non-text portions of this message have been removed]

2479. Re: T-4XC Remains keyed in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-12 20:30:43 UTC
From: Dave
Topic: 2462 Message: 2479

Hi Vic -
No the keyer had taken a spike of some sort and was shorted and I didn't know it. It is always hooked to the T-4XC on the grid block output. But like a dummy I didn't think to disconnect it.

Wink

--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> Were you by any chance trying to key it with the positive keying outlet from the keyer and not the grid block? With the positive keying outlet you get continual key down on the T-4XC. I know, I've done it and spent ages wondering what the hell was wrong when all it needed was shifting the phono jack to grid block.
>
> One of the problems these days is that modern keyers only cater for solid state and don't have a grid block outlet.
>
>
>
> Cheers
>
> Vic
>
> Forget the rest, get the best - http://www.tiscali.co.uk/music
>
> [Non-text portions of this message have been removed]
>

2480. My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 02:13:47 UTC
From: Cameraman
Topic: 2480 Message: 2480

Went & picked up the TR-4 today. Even got the original instruction book (gud thing !)It was pretty dirty but I cleaned it up & got it on the air. Everything seems OK except the mic. I get bad reports some times & OK reports sometimes but I'm told it's "scratchy". The mic is a G.E. w/ a Shure element in it. Seems like some kinda switch trouble but I've had it apart repeatedly & at best it's intermittent.

Is there a consensus on a gud mic for old Drakes or is it a matter of taste & availability.

b

PS. I love the little plug, never saw one of those hanging on a peg at radio shack !

[Non-text portions of this message have been removed]

2481. Re: My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 02:17:15 UTC
From: kc9guz
Topic: 2480 Message: 2481

I used to use a D 104 on my Tr-4CW or a sure 444.

k9FON

2482. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 02:23:16 UTC
From: Richard Knoppow
Topic: 2480 Message: 2482

----- Original Message -----
From: "Cameraman" <cameraman@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, October 12, 2009 7:13 PM
Subject: [DrakeRadio] My new TR-4

> Went & picked up the TR-4 today. Even got the original
> instruction book (gud thing !)It was pretty dirty but I
> cleaned it up & got it on the air. Everything seems OK
> except the mic. I get bad reports some times & OK reports
> sometimes but I'm told it's "scratchy". The mic is a G.E.
> w/ a Shure element in it. Seems like some kinda switch
> trouble but I've had it apart repeatedly & at best it's
> intermittent.
>
> Is there a consensus on a gud mic for old Drakes or is it
> a matter of taste & availability.
>
> b
>
> PS. I love the little plug, never saw one of those hanging
> on a peg at radio shack !
>
Do you have anything else to test the mic with? Be sure
that's what it is before searching around for a new one.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2483. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 02:28:45 UTC
From: Jim Shorney
Topic: 2480 Message: 2483

On Mon, 12 Oct 2009 22:13:47 -0400, Cameraman wrote:

>The mic is a G.E. w/ a Shure element in it. Seems like some kinda switch trouble but I've had it apart repeatedly & at best it's intermittent.

Might be a bad cord, too.

Good mics that I have tried on various Drake with good reports: Shure 444, Turner 254HC, D-104 (non-amplified, add 470K resistor), EV 729, Turner +3 (yeah, I know...).

Best audio reports with my voice seem to be the two Turners, the EV, and the D-104. YMMV. The Shure 44 has a more natural sound that is well suited for casual rag chewing.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2484. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 03:20:14 UTC
From: Cameraman
Topic: 2480 Message: 2484

Well, I KNEW it was gonna come down to a D 104 or a Shure 444 'cause I don't have either one laying around at the moment.

I wish I had an adapter to put my TT 705 on it, it's a known good mike. The guy I bought the radio had 3 D 104s sitting on a shelf in his shack.......silly me !

Folks want $20 for the plug on ebay, Holy Scmoly, this vintage radio stuff is pretty pricy, maybe 'cause they fit a Collins too. Hi Hi

By now I've now established 2 seperate ham shacks in the house, one upstairs (transistorized) & one in the bomb shelter (tubes). Everything works off the same ant farm & by now there r so many switches, connectors, tuners & meters that I'm working up a sweat on the stairs. At first the Drake didn't seem to have ANY receive at all. I finally realized it was plugged straight into the back of a 520S. Oops ! Glad I didn't try & tune it up.....

A work in progress.
Tnx,
Butch KA4MIC

[Non-text portions of this message have been removed]

2485. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 04:51:06 UTC
From: Jim Shorney
Topic: 2480 Message: 2485

On Mon, 12 Oct 2009 23:20:14 -0400, Cameraman wrote:

>Folks want $20 for the plug on ebay, Holy Scmoly, this vintage radio stuff is pretty pricy, maybe 'cause they fit a Collins too. Hi Hi

The gurus on the Drakelist reflector know where to get plugs. I think one or two of them hang out here as well. Information may be forthcoming. If nothing else turns up, I've got a bunch of PJ-068 plugs (the military variant) with cords attached, I could dig one out. They aren't right-angle, though.

Go back and grab one of those D-104s.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2486. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 06:58:14 UTC
From: Richard Knoppow
Topic: 2480 Message: 2486

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, October 12, 2009 9:51 PM
Subject: Re: [DrakeRadio] My new TR-4

> On Mon, 12 Oct 2009 23:20:14 -0400, Cameraman wrote:
>
>>Folks want $20 for the plug on ebay, Holy Scmoly, this
>>vintage radio stuff is pretty pricy, maybe 'cause they fit
>>a Collins too. Hi Hi
>
>
> The gurus on the Drakelist reflector know where to get
> plugs. I think one or
> two of them hang out here as well. Information may be
> forthcoming. If nothing
> else turns up, I've got a bunch of PJ-068 plugs (the
> military variant) with
> cords attached, I could dig one out. They aren't
> right-angle, though.
>
> Go back and grab one of those D-104s.
>
> 73
>
> -Jim
>
Is this the same plug as used on the T-4, if so there
was considerable discussion on this list a few days ago. One
poster said that Mouser stocks both plugs and jacks. Much
less than $20.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2487. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 14:17:08 UTC
From: Cameraman
Topic: 2480 Message: 2487

I've also heard that Mouser has the plugs altho I'm not familiar w/ them. I just think that this illustrates that ebay is often NOT the place to buy stuff. Some folks get caught up in the bidding war & others depend on the fact that not everyone has a gud idea of the actual value of items.

I believe I've located a plug or 2. I hope to get this radio on the air soon, it's not mint but it sounds excellant on receive & in between scratches & pops I get an occasional gud report.

The speaker cabinet is interesting.....looks like someone shot a .45 thru the front of it. Actually I guess it has had a plug or mod of some kind but the bullet thing sounds gud. Maybe I can get one of those bullet hole decals & stick on it. Did John Wayne ever use a Drake in any of his war films ????? VERY COOL !

b

[Non-text portions of this message have been removed]

2488. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 16:33:46 UTC
From: Henry Gilmore
Topic: 2480 Message: 2488

I happen to have a speaker and the front plate. That is what surrived after united pound and smash got done with it. I would be willing to sell. let me know if you want it.

--- On Tue, 10/13/09, Cameraman <cameraman@...> wrote:

From: Cameraman <cameraman@...>
Subject: Re: [DrakeRadio] My new TR-4
To: DrakeRadio@yahoogroups.com
Date: Tuesday, October 13, 2009, 10:17 AM

I've also heard that Mouser has the plugs altho I'm not familiar w/ them. I just think that this illustrates that ebay is often NOT the place to buy stuff. Some folks get caught up in the bidding war & others depend on the fact that not everyone has a gud idea of the actual value of items.

I believe I've located a plug or 2. I hope to get this radio on the air soon, it's not mint but it sounds excellant on receive & in between scratches & pops I get an occasional gud report.

The speaker cabinet is interesting. ....looks like someone shot a .45 thru the front of it. Actually I guess it has had a plug or mod of some kind but the bullet thing sounds gud. Maybe I can get one of those bullet hole decals & stick on it. Did John Wayne ever use a Drake in any of his war films ????? VERY COOL !

b

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2489. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 17:18:09 UTC
From: Richard Knoppow
Topic: 2480 Message: 2489

----- Original Message -----
From: "Cameraman" <cameraman@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, October 13, 2009 7:17 AM
Subject: Re: [DrakeRadio] My new TR-4

> I've also heard that Mouser has the plugs altho I'm not
> familiar w/ them. I just think that this illustrates that
> ebay is often NOT the place to buy stuff. Some folks get
> caught up in the bidding war & others depend on the fact
> that not everyone has a gud idea of the actual value of
> items.
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> I believe I've located a plug or 2. I hope to get this
> radio on the air soon, it's not mint but it sounds
> excellant on receive & in between scratches & pops I get
> an occasional gud report.
>
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> like someone shot a .45 thru the front of it. Actually I
> guess it has had a plug or mod of some kind but the bullet
> thing sounds gud. Maybe I can get one of those bullet hole
> decals & stick on it. Did John Wayne ever use a Drake in
> any of his war films ????? VERY COOL !
>
> b
>
Mouser is a large parts house with a very good
reputation and no minimum order. http://www.mouser.com
I did a little searching and found their stock number
502-S230 which appears to be the right part. This is a
Switchcraft right-angle RTS plug of 0.206 diameter, $11.37
each in single quantity.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2490. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 21:44:30 UTC
From: Cameraman
Topic: 2480 Message: 2490

I can live w/ the hole just fine. I'm assuming there was something in it at some time, what I don't know ????

Tnx,
b
----- Original Message -----
From: Henry Gilmore
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 13, 2009 12:33 PM
Subject: Re: [DrakeRadio] My new TR-4

I happen to have a speaker and the front plate. That is what surrived after united pound and smash got done with it. I would be willing to sell. let me know if you want it.

--- On Tue, 10/13/09, Cameraman <cameraman@...> wrote:

From: Cameraman <cameraman@...>
Subject: Re: [DrakeRadio] My new TR-4
To: DrakeRadio@yahoogroups.com
Date: Tuesday, October 13, 2009, 10:17 AM

I've also heard that Mouser has the plugs altho I'm not familiar w/ them. I just think that this illustrates that ebay is often NOT the place to buy stuff. Some folks get caught up in the bidding war & others depend on the fact that not everyone has a gud idea of the actual value of items.

I believe I've located a plug or 2. I hope to get this radio on the air soon, it's not mint but it sounds excellant on receive & in between scratches & pops I get an occasional gud report.

The speaker cabinet is interesting. ....looks like someone shot a .45 thru the front of it. Actually I guess it has had a plug or mod of some kind but the bullet thing sounds gud. Maybe I can get one of those bullet hole decals & stick on it. Did John Wayne ever use a Drake in any of his war films ????? VERY COOL !

b

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2491. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-13 21:46:13 UTC
From: Cameraman
Topic: 2480 Message: 2491

Tnx to u also Richard. I' BELIEVE I have a connection but I'll see. Is the mouser item a right angle plug, that would be nice.

b

[Non-text portions of this message have been removed]

2492. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-14 18:31:10 UTC
From: Cameraman
Topic: 2480 Message: 2492

Nice hearing some of u on the drake net last nite. I cleaned & resoldered my mic for 2 hrs today & it's still CRAP !

Anyone have a decent mic for a tr4 at some reasonable price. I'm pretty frustrared & am considering selling the radio for lack of a mic.....this is supposed to be FUN !

b

PS. I had the tr4 set up right beside my Omni V so I could switch back & forth between the 2 last nite. The drake has excellant audio, as gud or better than the Ten Tec but of course w/ the TT u have better filtration, notch & passband tuning etc & under bad conditions it does better. I'd think on 20 or at a time when the qrm/qrn was minimal the tr4 should really shine.

[Non-text portions of this message have been removed]

2493. Re: [DrakeRadio] My new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 01:25:15 UTC
From: Cameraman
Topic: 2480 Message: 2493

Here's another issue. I MAY have gotten the mic squared away but now the rig seems to key itself periodically. I can get it to drop back into the receive mode by quickly keying the mic & letting go.

It does not seem to be a vox issue, vox is set fully ccw & anti vox full cw. It MAY go into tx with or with out the mic plugged in but I'm not absolutely sure yet. I definitely does it w/ the mic plugged in. On one occasion it unkeyed when I turned the xmtr gain to zero, a coincidence maybe.

Acts to me like a sticking relay or maybe still the mic but I dunno.

What chew think ??????????????????//

b

[Non-text portions of this message have been removed]

2494. Satori and Sherwood Mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 03:12:52 UTC
From: jshea_n4dsp
Topic: 2494 Message: 2494

Someone please explain the differences to me about these mods and the pros and cons of each.
Thank You

john

2495. Re: [DrakeRadio] Re: Source for quiet fans

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 03:51:15 UTC
From: Jim Jordan
Topic: 2453 Message: 2495

I purchased a box of 120cm fans on Amazon.com. They are mounted atop my TR-4C. They are so quiet, one would not know they were there is they were not visible. I will send you a link to the product tomorrow morning. If you have already found a solution that suits you, at least you will have a reference for future needs.

73, W5SSN

On Sat, Oct 10, 2009 at 7:44 AM, floydsense <floyd@...> wrote:

>
>
> As you may already know, there's a vast difference in noise level produced
> by available 12VDC fans for PCs. For my TR7, I bought a fan from one of the
> PC sites dedicated to super-quiet PCs and then installed a thermostatically
> controlled circuit that turns the fan off when the temperature of the air
> stream (or heat sink in the TR7 case) falls below an adjustable value.
> Google "super quiet PCs" for sites dealing with PC noise. I built the
> thermostat controller on a little piece of perf board about 1" x 1.5" that
> could be mounted on the side of the fan housing in the case of the T4XB.
>
> 73, K8AC
>
>
> --- In DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>,
> "jshea_n4dsp" <jshea109@...> wrote:
> >
> > My T-4XB generates lot of heat from the finals and I hooked up an old new
> Radio Shack fan which now sits on the top of the finals. Performs well
> except for the noise. The size is 4 1/2" by 4 1/2". Anyone recommend a
> quieter fan and source?
> >
> > Thank You
> >
> > john
> >
>
>
>

[Non-text portions of this message have been removed]

2496. Important troubleshooting tip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 16:45:09 UTC
From: Cameraman
Topic: 2496 Message: 2496

IF YOU CAN'T FIX IT WITH A HAMMER, YOU'VE GOT AN ELECTRICAL PROBLEM.

I hope everyone already knew that !

b

[Non-text portions of this message have been removed]

2497. My new TR-4 part 2

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 16:48:36 UTC
From: Cameraman
Topic: 2497 Message: 2497

OK, OK I knuckled down & figured it out.

1- The mic had a bad cord.
2- The mic was wired wrong.

Now the whole thing works great & folks I talk to regularly say it sounds a lot like my Omni V. I pronounce it fixed.

Tnx to those who tried to help.

b

[Non-text portions of this message have been removed]

2498. Re: [DrakeRadio] My new TR-4 part 2

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-15 22:56:22 UTC
From: Kris Merschrod
Topic: 2497 Message: 2498

Good evening Butch,

That is good news - congratulations. I'll look forward to hearing you on the air. Next Tuesday we have wedding to attend, but perhaps on Sunday's 40 meter group.

73,
Kris
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Cameraman
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 15, 2009 12:48 PM
Subject: [DrakeRadio] My new TR-4 part 2

OK, OK I knuckled down & figured it out.

1- The mic had a bad cord.
2- The mic was wired wrong.

Now the whole thing works great & folks I talk to regularly say it sounds a lot like my Omni V. I pronounce it fixed.

Tnx to those who tried to help.

b

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2499. Re: [DrakeRadio] My new TR-4 part 2

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-16 12:25:05 UTC
From: Cameraman
Topic: 2497 Message: 2499

Here's a question for u. This tr4 has a switch installed in the extreme lower left corner of the front panal. I'm thinking this would be where the noise blanker control would be if it had one. When I first got the radio turning this knob cw would shut off the speaker but now it seems to do nothing. In the cw position I still hear the speaker. If it is a noise blanker that has just started working it seems innefective but then maybe I'm not giving it an ignition type noise to work on.

Any ideas ?

Tnx,
Butch KA4MIC

[Non-text portions of this message have been removed]

2500. WTB Mint Collector Quality

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-18 16:10:47 UTC
From: jshea_n4dsp
Topic: 2500 Message: 2500

Looking to buy a Drake B Line which is Mint and Collector Quality.
Not interested in refurbished. Looking for original.
Thanks.

john

2501. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-18 22:47:54 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2501

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2503. Re: [DrakeRadio] RF Sig Generator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 02:35:08 UTC
From: Garey Barrell
Topic: 2503 Message: 2503

John -

Just about all the alignment of the 4 Series can be done with nothing other than the calibrator as a "signal generator".

The only place I can think of offhand is the alignment of the filter matching, (those wires wrapped around IF transformer pins!,) that really shouldn't be messed with unless you have reason to believe they have been "fixed" by a previous owner.

That said, I don't think the RF-1 would be stable enough, nor adjustable _accurately_ enough, to be of much help. Probably the only Heath generator that would be good enough would be the IG-42, which is a pretty stable and finely adjustable generator. It also is well shielded to prevent alternative or leaky paths to confuse the issue. And even the IG-42 would require a counter to be accurate enough to be of any help.

IF the receiver has been "fixed" previously, then a generator might be useful to get badly misaligned stages back where they belong, but if you are hearing the calibrator, a "field" alignment with the calibrator will be more than sufficient!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Is the RF-1 Heathkit Sig Generator ok to align the Drake R-4B. This is not as accurate as others.
>
> j
>
>

2504. Re: RF Sig Generator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 14:20:30 UTC
From: jshea_n4dsp
Topic: 2503 Message: 2504

Thanks Garey. I don't think the filter matching was touched. I merely want to tweak things. Before I do that though I thought I would purchase a full complement of new tubes and use the present ones as backups. I found one site called hamtubes.com but you may know of others that you can pass along.

73
john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Just about all the alignment of the 4 Series can be done with nothing
> other than the calibrator as a "signal generator".
>
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> pretty stable and finely adjustable generator. It also is well shielded
> to prevent alternative or leaky paths to confuse the issue. And even
> the IG-42 would require a counter to be accurate enough to be of any help.
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> IF the receiver has been "fixed" previously, then a generator might be
> useful to get badly misaligned stages back where they belong, but if
> you are hearing the calibrator, a "field" alignment with the calibrator
> will be more than sufficient!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>

2505. Re: [DrakeRadio] Re: RF Sig Generator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 15:11:28 UTC
From: Cameraman
Topic: 2503 Message: 2505

I bought a set of tubes for an hw101 from this Joe at a very reasonable price. I've lost his fone # but here's his email.

joenmary75@...

[Non-text portions of this message have been removed]

2506. Re: [DrakeRadio] Re: RF Sig Generator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 15:30:10 UTC
From: Garey Barrell
Topic: 2503 Message: 2506

John -

I would suggest that you keep the original tubes, and use your new set as backups. Very few tubes "go bad" in use, absent symptoms. I have seen RF Amp tubes (6BZ6) get weak, IF Amp tubes (12BA6) get "gassy" upsetting the AVC and S-Meter operation, and AF Output tubes (6EH5) get gassy causing the cathode voltage to rise and an increase in distortion. The C-Line has the 6EJ7's which are sometimes difficult to replace since many are noisy out of the "NOS" box.

From a practical standpoint, if the receiver can be aligned according to the procedure in the manual, AND the background noise goes up when you connect the antenna, you're there!

I suggest you get one of the Elecraft XG-1/2, or NORCAL S9 signal generators. These are inexpensive, and provide a _calibrated_ signal of either 1 uV or 50 uV on one or more bands. So all you have to do is first FIND the generator on the bench, since it's not much bigger than a computer "thumb" drive, and connect it to the receiver antenna. The 1 uV signal should be about S2, and the 50 uV signal should be S9. If this is OK, you are done!

There are several reliable tube sellers.

Antique Electronic Supply <www.tubesandmore.com>

ESRC <www.esrcvacuumtubes.com/>

RadioDaze <www.radiodaze.com>

Vacuum Tube Inc <vacuumtubesinc.com>

Electron Tube Ent <http://members.aol.com/etetubes/>

Radio Tube Supply <www.radiotubesupply.com>

Prices vary, and I would suggest specifying Sylvania, RCA or GE branded tubes if possible.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Thanks Garey. I don't think the filter matching was touched. I merely want to tweak things. Before I do that though I thought I would purchase a full complement of new tubes

and use the present ones as backups. I found one site called hamtubes.com but you may know of others that you can pass along.
>
> 73
> john
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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>> John -
>>
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>> other than the calibrator as a "signal generator".
>>
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>> matching, (those wires wrapped around IF transformer pins!,) that really
>> shouldn't be messed with unless you have reason to believe they have
>> been "fixed" by a previous owner.
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>> That said, I don't think the RF-1 would be stable enough, nor
>> adjustable _accurately_ enough, to be of much help. Probably the only
>> Heath generator that would be good enough would be the IG-42, which is a
>> pretty stable and finely adjustable generator. It also is well shielded
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>> the IG-42 would require a counter to be accurate enough to be of any help.
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>> useful to get badly misaligned stages back where they belong, but if
>> you are hearing the calibrator, a "field" alignment with the calibrator
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>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
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>> <www.k4oah.com>
>>
>

2507. R-4B mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 18:49:32 UTC
From: JC
Topic: 2507 Message: 2507

I am eagerly awaiting a R-4B.
With respect to mods, I know there are two (maybe more) philosophies. Do NOT mod a Drake. Mod it and make it better (aka Sherwood and the R-4C).

In looking around the internet I came across an article by Giorgio IN3IEX (http://www.ing.unitn.it/~fontana/R4bmod.pdf). These mods look straight forward. But are they useful?

Anyway, has anybody done these mods? what do you think?

73/Crit/K4BXN

2508. Re: [DrakeRadio] R-4B mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 19:19:23 UTC
From: Garey Barrell
Topic: 2507 Message: 2508

Crit -

First a disclaimer..... I am a confirmed Luddite when it comes to vintage gear. I prefer to use them as designed, warts and all.

That said, I have seen the mods by IN3IEX, and I can only say that the "distributed gain" of any receiver is critical to optimizing performance with regard to sensitivity and resistance to overload. I think Drake engineers, by the time the R-4B was done, had pretty well worked the best compromises out and went with them. Again, if the noise level increases when you connect an antenna, and peak the preselector, more gain serves no purpose and only DECREASES the overload distortion capability of the receiver.

As I said in an earlier message, the only real test of the NB is to connect a wire to the antenna lead and drag the other end across a file grounded to the receiver chassis or even just across an uninsulated area of the chassis or shield. When this is done, set AVC to FAST and see that with the NB OFF, the spikes generated will peak up to S9 or higher. Turning the NB ON should drop the meter reading considerably. If it doesn't, there may be a problem in the NB circuit. A properly "adjusted" NB will blank the noise pulses created in this way, yet will cause little or no distortion of very strong signals.

These mods are relatively minor, so probably won't make the receiver much less capable, but I also doubt they would make a discernible difference in the effective operation either.

Just my opinion ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

JC wrote:
> I am eagerly awaiting a R-4B.
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>
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>
> Anyway, has anybody done these mods? what do you think?
>

> 73/Crit/K4BXN
>
>
>

2509. Re: [DrakeRadio] R-4B mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 19:41:24 UTC
From: Richard Knoppow
Topic: 2507 Message: 2509

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, October 20, 2009 12:19 PM
Subject: Re: [DrakeRadio] R-4B mods

> Crit -
>
> First a disclaimer..... I am a confirmed Luddite when it
> comes to
> vintage gear. I prefer to use them as designed, warts and
> all.
>
> That said, I have seen the mods by IN3IEX, and I can only
> say that the
> "distributed gain" of any receiver is critical to
> optimizing performance
> with regard to sensitivity and resistance to overload. I
> think Drake
> engineers, by the time the R-4B was done, had pretty well
> worked the
> best compromises out and went with them. Again, if the
> noise level
> increases when you connect an antenna, and peak the
> preselector, more
> gain serves no purpose and only DECREASES the overload
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> capability of the receiver.
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> FAST and see
> that with the NB OFF, the spikes generated will peak up to
> S9 or
> higher. Turning the NB ON should drop the meter reading
> considerably.
> If it doesn't, there may be a problem in the NB circuit.
> A properly
> "adjusted" NB will blank the noise pulses created in this
> way, yet will

> cause little or no distortion of very strong signals.
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> the receiver
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>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>

I think this is probably valid for a "dummy" antenna
with only thermal agitation noise but real antennas pick up
a lot of atmospheric and man-made noise. One could well
design a receiver to take this into account. I think it was
done for a number of all wave receivers that covered the
broadcast band. i.e. either the gain of the input stage was
reduced in some way or it cut out for this band. An example
is the TMC GPR-90 which has a very quiet grounded grid input
which is by-passed for broadcast band use.
I agree completely about too much gain in the front end
(or anywhere). Many years ago receivers were speced based
on the amount of audio they would put out for a given RF
input. Had nothing to do with noise level and was a pretty
much useless spec for other than trouble shooting. There
were also a number of pre-selectors available. These were
supposed to increase "sensitivity" but probably mostly
increased overload problems. They probably did improve image
rejection. I think RME was the best known brand.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2510. Re: [DrakeRadio] R-4B mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 20:08:02 UTC
From: Garey Barrell
Topic: 2507 Message: 2510

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, October 20, 2009 12:19 PM
> Subject: Re: [DrakeRadio] R-4B mods
>
>
>
>> Crit -
>>
>> First a disclaimer..... I am a confirmed Luddite when it
>> comes to
>> vintage gear. I prefer to use them as designed, warts and
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>>
>> That said, I have seen the mods by IN3IEX, and I can only
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>> "distributed gain" of any receiver is critical to
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>> FAST and see
>> that with the NB OFF, the spikes generated will peak up to
>> S9 or
>> higher. Turning the NB ON should drop the meter reading
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>> If it doesn't, there may be a problem in the NB circuit.

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>> "adjusted" NB will blank the noise pulses created in this
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>> cause little or no distortion of very strong signals.
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>> These mods are relatively minor, so probably won't make
>> the receiver
>> much less capable, but I also doubt they would make a
>> discernible
>> difference in the effective operation either.
>>
>> Just my opinion ...
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>
> I think this is probably valid for a "dummy" antenna
> with only thermal agitation noise but real antennas pick up
> a lot of atmospheric and man-made noise. One could well
> design a receiver to take this into account. I think it was
> done for a number of all wave receivers that covered the
> broadcast band. i.e. either the gain of the input stage was
> reduced in some way or it cut out for this band. An example
> is the TMC GPR-90 which has a very quiet grounded grid input
> which is by-passed for broadcast band use.
> I agree completely about too much gain in the front end
> (or anywhere). Many years ago receivers were speced based
> on the amount of audio they would put out for a given RF
> input. Had nothing to do with noise level and was a pretty
> much useless spec for other than trouble shooting. There
> were also a number of pre-selectors available. These were
> supposed to increase "sensitivity" but probably mostly
> increased overload problems. They probably did improve image
> rejection. I think RME was the best known brand.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>

Richard -

Quite correct. On the other hand, if ONLY the atmospheric noise causes the meter to rise, you have still determined the maximum "useful" gain for that location at that time. :-)

Unfortunately, in most areas these days any HF receiver is limited by man-made noise!

Yes, many added pre-amps to their receivers and were very happy with the GREATLY increased S-meter readings. That is until they noticed that the noise level had increased a like amount!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

2511. Re: [DrakeRadio] R-4B mods

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-20 21:13:33 UTC
From: Richard Knoppow
Topic: 2507 Message: 2511

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, October 20, 2009 1:08 PM
Subject: Re: [DrakeRadio] R-4B mods

>
>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From: "Garey Barrell" <k4oah@...>
>> To: <DrakeRadio@yahoogroups.com>
>> Sent: Tuesday, October 20, 2009 12:19 PM
>> Subject: Re: [DrakeRadio] R-4B mods
>>
>>
>>
> Richard -
>
> Quite correct. On the other hand, if ONLY the atmospheric
> noise causes
> the meter to rise, you have still determined the maximum
> "useful" gain
> for that location at that time. :-)
>
> Unfortunately, in most areas these days any HF receiver is
> limited by
> man-made noise!
>
> Yes, many added pre-amps to their receivers and were very
> happy with the
> GREATLY increased S-meter readings. That is until they
> noticed that the
> noise level had increased a like amount!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
I don't think we disagree about anything. Assuming the
noise figuure is measured with a resistive noise source
equivalent to the antenna the noise should be the same for
both, again assuming no outside signal. The open circuit
```

noise may be different so connecting a resistor or shielded antenna to the input might acually result in lower output. I am not sure when hams became sophisticated enough to understand that gain and internal noise of first RF stages might not be as important as low distortion and the ability to pass weak signals in the presence of stronger ones.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2512. How much current draw @ 250volts - Pin 11 of T4XB?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-21 17:14:13 UTC
From: n2mu_1
Topic: 2512 Message: 2512

Does anyone know or has anyone measured the amount of current going into Pin 11 of the Jones Connector (the 250volt line) on a T4X or T4Xb during standby and full transmit power? I need to design in the correct voltage with a junkbox transformer that has higher voltage than needed.

73 Hank N2MU ...-.- ..

2513. Re: [DrakeRadio] How much current draw @ 250volts - Pin 11 of T4XB?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-21 17:52:26 UTC
From: Garey Barrell
Topic: 2512 Message: 2513

Hank -

The T-4XB takes roughly 80 to 120 mA at 250 VDC.

It should regulate within 10% over the range, and have less than 0.25%
ripple.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

n2mu_1 wrote:
> Does anyone know or has anyone measured the amount of current going into Pin 11 of the Jones Connector (the 250volt line) on a T4X or T4Xb during standby and full transmit power? I need to design in the correct voltage with a junkbox transformer that has higher voltage than needed.
>
> 73 Hank N2MU ...-.- ..
>
>
>

2514. Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 16:38:54 UTC
From: wilderness4two
Topic: 2514 Message: 2514

My TR4 works fine but has a pretty bad hum in the power supply. I've also noticed that if I happen to touch the radio when I'm grounded but it's not....ZAP.... a shocking experiance. What chew think ? Bad filter caps ?????

Tnx,

Butch

2515. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 17:42:59 UTC
From: Chris Musselman
Topic: 2514 Message: 2515

That sounds like you may have a dangerous AC line leakage problem. You need to carefully check your power supply for the problem. Also, if you have not done so recently, make sure your radio room's AC power wiring is correct, with one of those plug-in AC line testers.
73-

Chris W6ATV

--- On Fri, 10/23/09, wilderness4two <cameraman@...> wrote:

> My TR4 works fine but has a pretty
> bad hum in the power supply. I've also noticed that if I
> happen to touch the radio when I'm grounded but it's
> not....ZAP.... a shocking experiance. What chew think ? Bad
> filter caps ?????
>
> Tnx,
>
> Butch
>

2516. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 18:26:34 UTC
From: Joe
Topic: 2514 Message: 2516

Sounds to me that you have an open or non-existent ground....all your radios/power supplies, need to be grounded to a good **outside** ground...preferably an 8 to 10' copper (coated) ground rod and then a good 1" (Depending on far you are from your ground) braided copper ground strap to grounding bar by your electronic equipment and then from the grounding bar to each of your electronic devices. It is also **extremely** important to make sure your grounding strap is not cut to a frequency length!!! (Hopefully I haven't left anything out..if so, lease add to what I said...Butch has a very dangerous situation in his shack!

Be very careful until you get your grounds in place...electrical shocks can be hazardous to your health!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "wilderness4two" <cameraman@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 23, 2009 9:38 AM
Subject: [DrakeRadio] Power supply hum

> My TR4 works fine but has a pretty bad hum in the power supply. I've also
> noticed that if I happen to touch the radio when I'm grounded but it's
> not....ZAP.... a shocking experiance. What chew think ? Bad filter caps
> ?????

2517. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 20:34:52 UTC
From: Ron WW5G
Topic: 2514 Message: 2517

Well
Not to get into too much math all I can tell you is that the loop I did
have checked around 100 ohms at 40 feet. I feed it with a matching
section of 75 ohm and worked fine .I wound a 2:1 balun and it worked
fine ,but it also worked with a 4:1 balun so whats the big deal .It
works fine either way
Ron
Joe wrote:
>
>
> Sounds to me that you have an open or non-existent ground....all your
> radios/power supplies, need to be grounded to a good **outside**
> ground...preferably an 8 to 10' copper (coated) ground rod and then a
> good
> 1" (Depending on far you are from your ground) braided copper ground
> strap
> to grounding bar by your electronic equipment and then from the grounding
> bar to each of your electronic devices. It is also **extremely**
> important
> to make sure your grounding strap is not cut to a frequency length!!!
> (Hopefully I haven't left anything out..if so, lease add to what I
> said...Butch has a very dangerous situation in his shack!
>
> Be very careful until you get your grounds in place...electrical
> shocks can
> be hazardous to your health!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> ----- Original Message -----
> From: "wilderness4two" <cameraman@...
> <mailto:cameraman%40wildblue.net>>
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Friday, October 23, 2009 9:38 AM
> Subject: [DrakeRadio] Power supply hum
>
> > My TR4 works fine but has a pretty bad hum in the power supply. I've
> also
> > noticed that if I happen to touch the radio when I'm grounded but it's
> > not....ZAP.... a shocking experiance. What chew think ? Bad filter caps
> > ?????
>
>

2518. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 22:17:33 UTC
From: Cameraman
Topic: 2514 Message: 2518

I'm in MOST EXCELLANT shape on the shack's rf ground situation. I said "if it was NOT grounded", I get a shock. Not a full blown 110V shock, just a little bite.

b

[Non-text portions of this message have been removed]

2519. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 23:09:43 UTC
From: Richard Knoppow
Topic: 2514 Message: 2519

----- Original Message -----
From: "Cameraman" <cameraman@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 23, 2009 3:17 PM
Subject: Re: [DrakeRadio] Power supply hum

> I'm in MOST EXCELLANT shape on the shack's rf ground
> situation. I said "if it was NOT grounded", I get a shock.
> Not a full blown 110V shock, just a little bite.
>
>
What have you done so far to isolate the probmem? I
don't want to suggest things that you've already checked
out.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2520. Re: Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 23:27:41 UTC
From: Marc K
Topic: 2514 Message: 2520

The real question is:is a small leakage to the chassis normal on this unit normal-on some older gear, this is normal, but if not, then the reason should be determined.
Also, "a little bite" may still be enough to be dangerous under the right conditions-the main question is:how much current is flowing between the chassis and ground?
Another point:I suspect it won't matter on that unit, but you might want to try reversing the AC line plug.
As for the hum, if grounding the unit does not affect it, then yes probably filter caps, or a lousy rectifier, or a heater to cathode short in a tube.
The filter caps, good or bad, should not affect the leakage to the case, except perhaps if the cap is in a metal can, and grounded to the chassis-under those circumstances, then if the cap has a fault allowing current to flow between the actual cap, to the can, then maybe(rather a long shot).

--- In DrakeRadio@yahoogroups.com, "Cameraman" <cameraman@...> wrote:
>
> I'm in MOST EXCELLANT shape on the shack's rf ground situation. I said "if it was NOT grounded", I get a shock. Not a full blown 110V shock, just a little bite.
>
> b
>
> [Non-text portions of this message have been removed]
>

2521. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-23 23:29:08 UTC
From: Chris Musselman
Topic: 2514 Message: 2521

Your description matches what I assumed when I made my comments about AC leakage in the radio. This could get a lot more dangerous than a "tingle" soon, so I hope you are able to check everything in your power supply. 73-

Chris W6ATV

--- On Fri, 10/23/09, Cameraman <cameraman@...> wrote:

> I'm in MOST EXCELLANT shape on the
> shack's rf ground situation. I said "if it was NOT
> grounded", I get a shock. Not a full blown 110V shock, just
> a little bite.
>
> b
>

2522. Re: [DrakeRadio] Re: Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 00:06:16 UTC
From: LEE BAHR
Topic: 2514 Message: 2522

Electrolytics go bad. They were never intended to be used for 40 or 50 years. Why is it so difficult to understand this? There are electrolytics in the AC-4 and also a multi-section can in the radio or transmitter or transceiver. These caps are failing every day as someone announces his just failed. There are also companies that have made new exact replacement caps and conversion kits available to replace the old ones. (The Heathkit Shop and Hayseed Electronics).

Bad electrolytics cause hum and can also ruin your final tubes and do wierd things to the performance of the radio.

I would think time would be better spent renewing the rig with fresh parts then spending hour after hour talking about should I do this or that. It is obvious from past lessons, change the damn things out! Why would anyone want to "bring up old caps slowly ", hunt for a variac or try and insert light bulbs in a rig when you know the electrolytics are past their life expectancy and new replacement parts are readably available at fair prices and others with the same radios are experiencing electrolytic failures all the time? Yes you can play Russian Ruellette and push the old parts. Some will be lucky and have no problem but this won't be true for everyone. Replacements are inexpensive and easily obtained. You need to take charge, the government isn't going to do it for you!

Lee, w0vt

[Non-text portions of this message have been removed]

2523. Re: [DrakeRadio] Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 01:31:28 UTC
From: Cameraman
Topic: 2514 Message: 2523

I unplugged it.

[Non-text portions of this message have been removed]

2524. Re: [DrakeRadio] Re: Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 01:38:39 UTC
From: Cameraman
Topic: 2514 Message: 2524

> You need to take charge, the government isn't going to do it for you!

>Lee, w0vt

Oh Lee....U've dashed my hopes ! Actually I had the radio in the shack for several days playing w/ it then other pieces of candy caught my eye & I carried it to shack #2 in the basement. I've done nothing to it since. I now also have a Ten Tec 12v supply that has hum & I've changed it out for another PS so I have 2 to get in shape. This is a preliminary inquiry. I'll be in touch.
Tnx,
b

[Non-text portions of this message have been removed]

2525. Re: [DrakeRadio] Re: Power supply hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 02:33:09 UTC
From: Forrest Plumstead
Topic: 2514 Message: 2525

On Fri, Oct 23, 2009 at 8:38 PM, Cameraman <cameraman@...> wrote:

>
>
>
> > You need to take charge, the government isn't going to do it for you!
>
> >Lee, w0vt
>
> Oh Lee....U've dashed my hopes ! Actually I had the radio in the shack for
> several days playing w/ it then other pieces of candy caught my eye & I
> carried it to shack #2 in the basement. I've done nothing to it since. I now
> also have a Ten Tec 12v supply that has hum & I've changed it out for
> another PS so I have 2 to get in shape. This is a preliminary inquiry. I'll
> be in touch.
> Tnx,
> b
>
> [Non-text portions of this message have been removed]
>
>
>

I know you put it away, but here is something to think about if you ever get
it out again and play with it. At the advice of either this group or the
Heathkit group. I took out the old AC line on my AC-4. It was nothing more
than 2 conductor lamp cord. I replaced it by taking a PC power cord and
cutting off the end that goes into the PC. Make sure the green cord goes to
chassis ground. The White wire went to the terminal that had the two tone
conductor, and the black wire went to the other terminal. Fortunately I have
not had any problems so far with the AC-4.
I too believe that you need to check out the electrolytics.

73s
Forrest WB5HQO

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html

[Non-text portions of this message have been removed]

2526. WTB Book

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 02:55:29 UTC
From: jshea_n4dsp
Topic: 2526 Message: 2526

This is a long shot but I want to buy the book "Solid State Design".
If anyone has one or an extra copy please email me.
Thank You.

john

2527. Re: [DrakeRadio] WTB Book It's a short shoot :>)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 11:54:18 UTC
From: Kris Merschrod
Topic: 2527 Message: 2527

Good morning John,

I will send a copy to you in a padded envelop.

Kris (KA2OIG)

----- Original Message -----
From: jshea_n4dsp
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 23, 2009 10:55 PM
Subject: [DrakeRadio] WTB Book

This is a long shot but I want to buy the book "Solid State Design".
If anyone has one or an extra copy please email me.
Thank You.

john

[Non-text portions of this message have been removed]

2528. Re: WTB Book It's a short shoot :>)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 12:15:09 UTC
From: jshea_n4dsp
Topic: 2527 Message: 2528

Thats very kind of you Kris!
Thank You.

john

--- In DrakeRadio@yahoogroups.com, "Kris Merschrod" <kris@...> wrote:
>
> Good morning John,
>
> I will send a copy to you in a padded envelop.
>
> Kris (KA2OIG)

2529. Artifacts using Drake R-4B AGC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-24 17:54:15 UTC
From: jshea_n4dsp
Topic: 2529 Message: 2529

Using cw 95% of my operating time causes me to turn my agc off on the R-4B. This is due to the artifacts generated in the slow agc position by the detector. Fast agc is useless.

This receiver is stock and no way I am going to put mods into it. Bob Sherwood does have a mod which corrects this condition.

Would a SCAF filter "clean" this up? Surely there are others who have experienced this and sought out some improvement.

On another note I have been looking for a moderate expense headphone without the boom mike. I have been through the Sony's and others which are being sold at Radio Shack, Target, and Best Buy. I do not want to pay $100.00 for a Heil and not a subscriber to these noise canceling gimmick headsets. Most of all is comfort. Everything I have tried within ten minutes my ears feel like they have been in a c clamp.
Is there anything out there for comfort and around 50 dollars?

Thank You

john

2530. Re: Artifacts using Drake R-4B AGC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-25 01:52:40 UTC
From: toptyp19
Topic: 2529 Message: 2530

Hi John-
As a ham for 45 years I've accumulated many, and I mean many, pair
of headphones. Some have been more comfortable than others but, in
the long run, I haven't found the "ultimate". I keep falling back on
just a good pair of walkman earphones with a 1/8" stereo to 1/4"
mono plug. They are really comfortable because they have no weight to speak of. The ones I favor are Sony, Magnavox, and Koss in that order.
Not only are they cheap but the frequency response is just fine for either voice or CW. Also, the replacement foam pads are readily available from Radio Shack. The only con I can think of is since they don't completely cover the ear, you still can hear outside noise (the XYL, etc.) HI!
73, Joe

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Using cw 95% of my operating time causes me to turn my agc off on the R-4B. This is due to the artifacts generated in the slow agc position by the detector. Fast agc is useless.
>
> This receiver is stock and no way I am going to put mods into it. Bob Sherwood does have a mod which corrects this condition.
>
> Would a SCAF filter "clean" this up? Surely there are others who have experienced this and sought out some improvement.
>
> On another note I have been looking for a moderate expense headphone without the boom mike. I have been through the Sony's and others which are being sold at Radio Shack, Target, and Best Buy. I do not want to pay $100.00 for a Heil and not a subscriber to these noise canceling gimmick headsets. Most of all is comfort. Everything I have tried within ten minutes my ears feel like they have been in a c clamp.
> Is there anything out there for comfort and around 50 dollars?
>
> Thank You
>
> john
>

2531. R-4B S meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-25 23:01:34 UTC
From: JC
Topic: 2531 Message: 2531

Picked up a nice R-4B recently. Seems to hear everything my TR7 does but it a couple s units down on the meter. Noise level as well as signals. Is the R-4B just stingy or do I need to do an alignment?
73/Crit/K4BXN

2532. Re: [DrakeRadio] R-4B S meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-25 23:32:30 UTC
From: Garey Barrell
Topic: 2531 Message: 2532

Crit -

If the S-meter reads S1 "0" with the Preselector detuned and the RF gain full CW, and full scale with RF Gain full CCW a 50 uV signal should read S9 with RF Gain full CW.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

JC wrote:
> Picked up a nice R-4B recently. Seems to hear everything my TR7 does but it a couple s units down on the meter. Noise level as well as signals. Is the R-4B just stingy or do I need to do an alignment?
> 73/Crit/K4BXN
>
>
>

2533. TR-7 Power Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-26 17:07:37 UTC
From: w4op
Topic: 2533 Message: 2533

I know I have seen sources before- but cannot find the connector from Mouser or Digikey. Can anyone give me a supplier?

Tnx,
Dale W4OP

2534. Re: [DrakeRadio] TR-7 Power Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-26 17:42:02 UTC
From: Garey Barrell
Topic: 2533 Message: 2534

Dale -

Allied and Newark both have the Jones S-2404-CCT connector in stock.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B & C-Lines, TR-4/C Service Supplement CDs
<www.k4oah.com>

w4op wrote:
> I know I have seen sources before- but cannot find the connector from Mouser or Digikey.
> Can anyone give me a supplier?
>
> Tnx,
> Dale W4OP
>
>
>
>

2535. Re: [DrakeRadio] TR-7 Power Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-26 17:52:36 UTC
From: Dale Parfitt
Topic: 2533 Message: 2535

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, October 26, 2009 1:42 PM
Subject: Re: [DrakeRadio] TR-7 Power Connector

Dale -

Allied and Newark both have the Jones S-2404-CCT connector in stock.

73, Garey - K4OAH
St Charles, IL

Thanks Garey,
I'll order one now.

73,
Dale W4OPY!

2536. Drift on Receive?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-30 18:50:03 UTC
From: jshea_n4dsp
Topic: 2536 Message: 2536

Away for five days and turned on the B line and quite noticeable listening to a ssb station. The signal will suddenly start to drift in freq. I am listening on 20 mtrs. At first I thought it was that particular station but such is not the case. When I switch the Transceive Control from RCVR to XMTR it does not occur.

Someone point me in the right direction to troubleshoot this?

Thank You.

john

2537. TR4 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-30 19:03:37 UTC
From: wilderness4two
Topic: 2537 Message: 2537

I have a nice Drake TR4 for sale. Includes radio, power supply/speaker, hand mic, original manual & abt 10 spare tubes. Radio is in nice shape, has excellant audio & I get gud reports w/ it. 150+ watts out. Speaker front has been modified w/ some extra holes & a jack. PS has a hum but works fine. I believe it has the noise blanker, at least the switch is there.

I'd be happy to work a sked so u could hear it on the air.

$250. I'm in S.E. Ky. would prefer not to ship but .....

Butch KA4MIC
cameraman@wildblue.net
606-549-2181

2538. Re: Drift on Receive? UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-30 22:12:21 UTC
From: jshea_n4dsp
Topic: 2536 Message: 2538

About an hour later the R-4B no longer drifted. I am suspecting a capacitor. Since the receiver was not used for 5 days and then being on for an hour it could be a leaking cap and now it is fully charged the drift has ceased.

Anyone have opinions on this?

john

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Away for five days and turned on the B line and quite noticeable listening to a ssb station. The signal will suddenly start to drift in freq. I am listening on 20 mtrs. At first I thought it was that particular station but such is not the case. When I switch the Transceive Control from RCVR to XMTR it does not occur.
>
> Someone point me in the right direction to troubleshoot this?
>
> Thank You.
>
> john
>

2539. Re: [DrakeRadio] Re: Drift on Receive? UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-31 00:25:06 UTC
From: Richard Knoppow
Topic: 2536 Message: 2539

----- Original Message -----
From: "jshea_n4dsp" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 30, 2009 3:12 PM
Subject: [DrakeRadio] Re: Drift on Receive? UPDATE

> About an hour later the R-4B no longer drifted. I am
> suspecting a capacitor. Since the receiver was not used
> for 5 days and then being on for an hour it could be a
> leaking cap and now it is fully charged the drift has
> ceased.
>
> Anyone have opinions on this?
>
> john
>

I don't think its a cap. Possibly some moisture got
into it somehow and has taken a few hours of running to
evaporate.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2540. Re: [DrakeRadio] Re: Drift on Receive? UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-31 02:29:30 UTC
From: Garey Barrell
Topic: 2536 Message: 2540

John -

Serial Number?

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

> ----- Original Message -----
> From: "jshea_n4dsp"<jshea109@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Friday, October 30, 2009 3:12 PM
> Subject: [DrakeRadio] Re: Drift on Receive? UPDATE
>
>
>
>> About an hour later the R-4B no longer drifted. I am
>> suspecting a capacitor. Since the receiver was not used
>> for 5 days and then being on for an hour it could be a
>> leaking cap and now it is fully charged the drift has
>> ceased.
>>
>> Anyone have opinions on this?
>>
>> john
>>
>>
>

2541. Re: Drift on Receive? UPDATE

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-10-31 08:32:41 UTC
From: jshea_n4dsp
Topic: 2536 Message: 2541

12982C Garey.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Serial Number?
>
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2542. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-01 19:30:41 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2542

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2543. DRAKE 1-A FINE TUNING?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-04 02:02:04 UTC
From: w1fued@sbcglobal.net
Topic: 2543 Message: 2543

Does anyone know how the fine tuning in the 1-A works?

I have removed the dial the main and auxiliary tuning wheels, removed old grease, cleaned thoroughly, and reassembled. It is now nice and smooth but fine tuning does not work. The inner shaft of the fine tunig turns freely, but it does not turn anything else. What am I missing?

Thanks,
ED
W1FU
(THIS rx purchase completed my Drake amateur rx line.)

2544. drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 17:00:17 UTC
From: barry whittemore
Topic: 2544 Message: 2544

I was recently given a bo of parts and a bunch are Drake boards of various types. I have no way of testing them and do not know anything about them. I can use some of the things but would rather see the boards go to someone that can use them.
I will post later this evening with a list of part numbers that i have. Most of the items can be had for the cost of shipping and can also be picked up in So. NH.
Barry
WB1EDI

Windows 7: Unclutter your desktop.
http://go.microsoft.com/?linkid=9690331&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen:112009

[Non-text portions of this message have been removed]

2545. F.S. K4OAH TR-4C /CWRIT CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 20:10:51 UTC
From: Dale Parfitt
Topic: 2545 Message: 2545

I have sold my CW/RIT and so no longer need Garey's CD. It was a huge help to me in restoring my rig.
The CD contains color images and information not available anywhere else.

$25 shipped USPS.

Tnx,
Dale W4OP

[Non-text portions of this message have been removed]

2546. RE: [DrakeRadio] drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 21:30:18 UTC
From: barry whittemore
Topic: 2544 Message: 2546

I have the list of boards that i have.
B4727H
C3823W
C3712C
C4006W
C4787F
RCC4
B4263 (might be B42G3)
B4751-C
R-4C PS

I have no idea about condition etc.
i also have some unknown cables etc.
Barry
WB1EDI

To: drakeradio@yahoogroups.com
From: wb1edi@...
Date: Thu, 5 Nov 2009 12:00:17 -0500
Subject: [DrakeRadio] drake equip

I was recently given a bo of parts and a bunch are Drake boards of various types. I have no way of testing them and do not know anything about them. I can use some of the things but would rather see the boards go to someone that can use them.

I will post later this evening with a list of part numbers that i have. Most of the items can be had for the cost of shipping and can also be picked up in So. NH.

Barry

WB1EDI

Windows 7: Unclutter your desktop.

http://go.microsoft.com/?linkid=9690331&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen:112009

[Non-text portions of this message have been removed]

Find the right PC with Windows 7 and Windows Live.
http://www.microsoft.com/Windows/pc-scout/laptop-set-criteria.aspx?cbid=wl&filt=200,2400,10,19,1,3,1,7,50,650,2,12,0,1000&cat=1,2,3,4,5,6&brands=5,6,7,8,9,10,11,12,13,14,15,16&addf=4,5,9&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen2:112009

[Non-text portions of this message have been removed]

2547. Re: [DrakeRadio] drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 21:34:00 UTC
From: Garey Barrell
Topic: 2544 Message: 2547

Barry -

I'm always looking for Drake parts for photos. What would you take for
the whole group?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

barry whittemore wrote:
> I have the list of boards that i have.
> B4727H
> C3823W
> C3712C
> C4006W
> C4787F
> RCC4
> B4263 (might be B42G3)
> B4751-C
> R-4C PS
>
> I have no idea about condition etc.
> i also have some unknown cables etc.
> Barry
> WB1EDI
>
>

2548. Unknown Crystals for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 23:24:16 UTC
From: JC
Topic: 2548 Message: 2548

I picked up a nice R-4B and enjoy using it ... use it to RX and my TR7 to xmit ... sounds sweet.

Anyway it has some crystal plugged into the back ... only one can I figure out. That one is marked 28.100 ... thus is for 17.0-17.5 Mhz.

But the others baffle me.
5.645 (says R-4B on it)
1820 (says R-4B on it)
150 155 (says R-4B on it)
7895 (says G16 ?Tedlord???)

What have I got here?
73/Crit/K4BXN

2549. Re: [DrakeRadio] drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-05 23:25:02 UTC
From: W0TQ
Topic: 2544 Message: 2549

Any small diameter cables with right angled RCS plugs on them?

Lou W0TQ

barry whittemore wrote:
> I have the list of boards that i have.
> B4727H
> C3823W
> C3712C
> C4006W
> C4787F
> RCC4
> B4263 (might be B42G3)
> B4751-C
> R-4C PS
>
> I have no idea about condition etc.
> i also have some unknown cables etc.
> Barry
> WB1EDI
>
> To: drakeradio@yahoogroups.com
> From: wb1edi@...
> Date: Thu, 5 Nov 2009 12:00:17 -0500
> Subject: [DrakeRadio] drake equip
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> I will post later this evening with a list of part numbers that i have. Most of the items can be had for the cost of shipping and can also be picked up in So. NH.
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> Barry
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> WB1EDI
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> Find the right PC with Windows 7 and Windows Live.
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2550. RE: [DrakeRadio] drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-06 01:09:22 UTC
From: barry whittemore
Topic: 2544 Message: 2550

I assume you mean RCA plug. I did find one of them about 1.5 ft long with a lug on the shield.
Barry

To: DrakeRadio@yahoogroups.com
From: w0tq@w0tq.com
Date: Thu, 5 Nov 2009 17:25:02 -0600
Subject: Re: [DrakeRadio] drake equip

Any small diameter cables with right angled RCS plugs on them?

Lou W0TQ

barry whittemore wrote:

> I have the list of boards that i have.

> B4727H

> C3823W

> C3712C

> C4006W

> C4787F

> RCC4

> B4263 (might be B42G3)

> B4751-C

> R-4C PS

>

> I have no idea about condition etc.

> i also have some unknown cables etc.

> Barry

> WB1EDI

>

> To: drakeradio@yahoogroups.com

> From: wb1edi@...

> Date: Thu, 5 Nov 2009 12:00:17 -0500

> Subject: [DrakeRadio] drake equip

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> I will post later this evening with a list of part numbers that i have. Most of the items can be had for the cost of shipping and can also be picked up in So. NH.

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> Barry

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> WB1EDI

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> Windows 7: Unclutter your desktop.

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Hotmail: Trusted email with Microsoft's powerful SPAM protection.

http://clk.atdmt.com/GBL/go/177141664/direct/01/
http://clk.atdmt.com/GBL/go/177141664/direct/01/

[Non-text portions of this message have been removed]

2551. Re: [DrakeRadio] drake equip

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-06 01:47:15 UTC
From: W0TQ
Topic: 2544 Message: 2551

I could use it, how much?

Lou W0TQ

barry whittemore wrote:
> I assume you mean RCA plug. I did find one of them about 1.5 ft long with a lug on the shield.
> Barry
>
>
> To: DrakeRadio@yahoogroups.com
> From: w0tq@...
> Date: Thu, 5 Nov 2009 17:25:02 -0600
> Subject: Re: [DrakeRadio] drake equip
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>> I have no idea about condition etc.
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>> i also have some unknown cables etc.
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>> To: drakeradio@yahoogroups.com
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>> From: wb1edi@...
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>> Date: Thu, 5 Nov 2009 12:00:17 -0500
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>> Subject: [DrakeRadio] drake equip
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2552. TR7 17 meter display oscillation & IF gain question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-06 12:51:24 UTC
From: David
Topic: 2552 Message: 2552

Hi all,
A two part question for a TR7:
1) Have an aux7 installed, and on 17m I sometimes get oscillation or erradic behavior of the frequency display on transmit. It would seem that somehow RF is getting back into the display board and causing this symptom. Any comments? Seems to be isolated only to the diplay board. Actual TR signal and fequency is unaffected.

2) Is it common to have the the IF gain on the 2nd if audio board set at maximum? Or should it be backed off some during alignment? I've heard that every TR7 serviced at Drake came back this way? True?

Thanks,
David
Wd9cmd
drakes@...

2553. Hello from East Africa

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-07 05:37:58 UTC
From: np2or
Topic: 2553 Message: 2553

I have been a member of this group for several months but this is my first introduction post. I am Jack Dunigan, NP2OR, licensed in February of this year when I was living and working on St. Croix in the US Virgin Islands. I am a fan of vintage gear and own 2 Drake TR-3's along with 3 AC-4 power supplies, one of which I rebuilt with modern components from the guy who sells the upgrade kit (sorry, can't remember his name.)

Before leaving for Uganda, East Africa, we bought a home in North Ft. Myers, Florida which is where my Drake gear presently resides. I am the interim Director of Aidchild (www.aidchild.org) here in Uganda and have applied for an amateur license. Because Drake radios and their power supplies are so heavy I was forced to bring a modern Icom with me (my apologies to the group) so I could meet the luggage weight restrictions imposed by the airline.

I read this groups posts regularly and appreciate all the great advice and encouragement. Even though I will be using modern gear here, I am anxious to get back to Florida and fire up the TR-3. For anyone interested I am blogging my amateur radio activites here in Africa at www.hamradiosafari.com.

2554. info on digi-brain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-10 13:16:59 UTC
From: barry whittemore
Topic: 2554 Message: 2554

Does anyone have information on the digi-brain?
I have a black box with three switched and an LCD display on the front and a 5 pin din , RCA and 1/8 phone jack on the back.
I have powered it up. (1/8 inch phone) and i get what appears to be an offset freq.
The output according to my freq counter is about 6 MHz
I would like to find info on this unit.
I have gone to WA0VNEs website but there is no downloadable manuals and i have gotten no response to an email about it.
None of the switches or connectors are labled and other then the power connector and power switch none are obvious.
any one have a manual scanned?
Thanks
Barry
WB1EDI

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Find the right PC with Windows 7 and Windows Live.
http://www.microsoft.com/Windows/pc-scout/laptop-set-criteria.aspx?cbid=wl&filt=200,2400,10,19,1,3,1,7,50,650,2,12,0,1000&cat=1,2,3,4,5,6&brands=5,6,7,8,9,10,11,12,13,14,15,16&addf=4,5,9&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen2:112009

[Non-text portions of this message have been removed]

2555. Re: [DrakeRadio] info on digi-brain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-11 04:27:37 UTC
From: Jim Pruitt
Topic: 2554 Message: 2555

Digibrain was in May 1996 QST. QST has the binary of it at
http://www.arrl.org/files/qst-binaries/
and http://www.arrl.org/files/qst-binaries/dbrain.zip
but the file looks like it is just the source code to program the 68HC705 (if memory serves me) cpu.

If you have access to back issues of QST you should be able to find the article there.

I have that board as well as the earlier Digivfo of Craswell's that apeared in the May 1995 issue of QST but never used them. There was no manual.

Good luck.

Jim Pruitt

----- Original Message -----
From: barry whittemore
To: drakeradio@yahoogroups.com
Sent: Tuesday, November 10, 2009 5:16 AM
Subject: [DrakeRadio] info on digi-brain

Does anyone have information on the digi-brain?
I have a black box with three switched and an LCD display on the front and a 5 pin din , RCA and 1/8 phone jack on the back.
I have powered it up. (1/8 inch phone) and i get what appears to be an offset freq.
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None of the switches or connectors are labled and other then the power connector and power switch none are obvious.
any one have a manual scanned?
Thanks
Barry
WB1EDI

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Find the right PC with Windows 7 and Windows Live.
http://www.microsoft.com/Windows/pc-scout/laptop-set-criteria.aspx?cbid=wl&filt=200,2400,10,19,1,3,1,7,50,650,2,12,0,1000&cat=1,2,3,4,5,6&brands=5,6,7,8,9,10,11,12,13,14,15,16&addf=4,5,9&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen2:112009

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[Non-text portions of this message have been removed]

2556. drake items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 15:33:42 UTC
From: barry whittemore
Topic: 2556 Message: 2556

I have some Drake items (Parts) that may be of interest to some. pics at http://picasaweb.google.com/wb1edi/DrakeStuff# I do not know what most of it is for but if you would like any let me know.
Barry
WB1EDI

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Hotmail: Trusted email with Microsoft?s powerful SPAM protection.
http://clk.atdmt.com/GBL/go/177141664/direct/01/

[Non-text portions of this message have been removed]

2557. Estate Sale, Drake Items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 16:22:41 UTC
From: Joe
Topic: 2557 Message: 2557

There appears to be some mighty fine looking Drake gear there. Don't know if Dave will ship anything.....you would have to ask.....

(Stay away from the B series stuff...its MINE!!!! LOL!!)

Joe Wolfe
WA6RKN
Reno, Nevada

The link below shows a picture of the collection of "Shally" K6VHP, sk. who lived in Eureka, CA. Dave Fortenberry, NA6DF is helping to dispose of this marvelous collection at his store, Radio Supply Company in Auburn, CA. Shally was a dear friend who had a lifetime collection of vintage radios and was meticulous with every piece of gear he touched. (Shally is missed more than you know). He could revive, fix, repair and bring new life back to just about anything. He had everybody's "first radio" in his collection. Contact Dave direct for more information regarding this inventory. You can see some of it for yourself at:

http://www.radiosupplyco.com/k6vhp.html

2558. Re: [DrakeRadio] drake items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 17:35:50 UTC
From: Garey Barrell
Topic: 2556 Message: 2558

Barry -

I'd be interested in 4, 7 and 11. ??

The other parts arrived today in good shape! Thanks.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

barry whittemore wrote:
> I have some Drake items (Parts) that may be of interest to some. pics at http://picasaweb.google.com/wb1edi/DrakeStuff# I do not know what most of it is for but if you would like any let me know.
> Barry
> WB1EDI
>
>

2559. RE: [DrakeRadio] drake items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 18:04:56 UTC
From: barry whittemore
Topic: 2556 Message: 2559

Sorry Garey, someone spoke for it. i do have lots of the blue film. how much and what sizes do you need? i will just put some in an envelope and send some to you. I am glad to hear that you got the boards. I hope they are something you can use.
Barry

To: DrakeRadio@yahoogroups.com
From: k4oah@mindspring.com
Date: Fri, 13 Nov 2009 12:35:50 -0500
Subject: Re: [DrakeRadio] drake items

Barry -

I'd be interested in 4, 7 and 11. ??

The other parts arrived today in good shape! Thanks.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

<www.k4oah.com>

barry whittemore wrote:

> I have some Drake items (Parts) that may be of interest to some. pics at http://picasaweb.google.com/wb1edi/DrakeStuff# I do not know what most of it is for but if you would like any let me know.

> Barry

> WB1EDI

>

>

_____
Hotmail: Powerful Free email with security by Microsoft.
http://clk.atdmt.com/GBL/go/171222986/direct/01/

[Non-text portions of this message have been removed]

2560. RE: [DrakeRadio] drake items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 18:32:42 UTC
From: John Daly
Topic: 2556 Message: 2560

Hi Barry:

I don't want to take any of your blue film, but could you advise where you located it so I could purchase some of it.

73 John WA9WHD Lutz, FL

--- On Fri, 11/13/09, barry whittemore <wb1edi@...> wrote:

From: barry whittemore <wb1edi@...>
Subject: RE: [DrakeRadio] drake items
To: "drake yahoo" <drakeradio@yahoogroups.com>
Date: Friday, November 13, 2009, 10:04 AM

Sorry Garey, someone spoke for it. i do have lots of the blue film. how much and what sizes do you need? i will just put some in an envelope and send some to you. I am glad to hear that you got the boards. I hope they are something you can use.
Barry

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Fri, 13 Nov 2009 12:35:50 -0500
Subject: Re: [DrakeRadio] drake items

Barry -

I'd be interested in 4, 7 and 11. ??

The other parts arrived today in good shape! Thanks.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

<www.k4oah.com>

barry whittemore wrote:

> I have some Drake items (Parts) that may be of interest to some. pics at http://picasaweb.google.com/wb1edi/DrakeStuff# I do not know what most of it is for but if you would like any let me know.

> Barry

> WB1EDI

>

>

Hotmail: Powerful Free email with security by Microsoft.
http://clk.atdmt.com/GBL/go/171222986/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2561. R2 Resistor Cooked in TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 19:48:55 UTC
From: Noodle10536
Topic: 2561 Message: 2561

I had my TR-4Cw sitting on my shack bench just receiving, no TX, and suddenly it shorted internally. I shut it down as quickly as I could. Upon inspection, the R2 resistor is cooked. Does anyone have any ideas what the most probable cause is for this particular short? Thanks, Peter.

2562. Re: [DrakeRadio] R2 Resistor Cooked in TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-13 21:22:10 UTC
From: Garey Barrell
Topic: 2561 Message: 2562

Peter -

If it's really R2, 1.5k @ 1/2W connected to the same terminal as the 750 ohm, 5W resistor, it may just be an internal short in V1. It could also be a short in T1,T2 or T3. Possibly a shorted C8. Of course it could also be a physical short in the wiring associated with the above.

R2 only feeds stage V1, so it's in that area, which naturally is a LOVELY area to troubleshoot! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Noodle10536 wrote:
> I had my TR-4Cw sitting on my shack bench just receiving, no TX, and suddenly it shorted internally. I shut it down as quickly as I could. Upon inspection, the R2 resistor is cooked. Does anyone have any ideas what the most probable cause is for this particular short? Thanks, Peter.
>
>
>

2563. Drake 2B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-14 04:00:06 UTC
From: Lee Buller
Topic: 2561 Message: 2563

DRake 2B deaf on 40 meters. No peak of noise. Some on 20 80 meters is quite good.

ANy ideas?

Lee - K0WA

[Non-text portions of this message have been removed]

2564. Re: [DrakeRadio] Drake 2B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-14 06:55:31 UTC
From: John Daly
Topic: 2561 Message: 2564

You might take the 20 crystal out and put it in one of the A-B-C slots to see if it works in where one of the optional crystals might go. If it works there, you probably have a bad contact in the crystal socket. Just a thought.

73 John WA9WHD

--- On Fri, 11/13/09, Lee Buller <k0wa@...> wrote:

From: Lee Buller <k0wa@...>
Subject: [DrakeRadio] Drake 2B Question
To: DrakeRadio@yahoogroups.com
Date: Friday, November 13, 2009, 8:00 PM

DRake 2B deaf on 40 meters. No peak of noise. Some on 20 80 meters is quite good.

ANy ideas?

Lee - K0WA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2565. Re: [DrakeRadio] Drake 2B Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-14 06:56:47 UTC
From: John Daly
Topic: 2561 Message: 2565

I mean 40 meter xtal - not 20 meter as stated in the earlier message.

73 WA9WHD John

--- On Fri, 11/13/09, Lee Buller <k0wa@...> wrote:

From: Lee Buller <k0wa@...>
Subject: [DrakeRadio] Drake 2B Question
To: DrakeRadio@yahoogroups.com
Date: Friday, November 13, 2009, 8:00 PM

DRake 2B deaf on 40 meters. No peak of noise. Some on 20 80 meters is quite good.

ANy ideas?

Lee - K0WA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2566. Drake LPF, Cases, and connector FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-14 18:29:18 UTC
From: Ken Simpson, W8EK
Topic: 2566 Message: 2566

Drake items for sale:

Drake TV-3300-LP Low Pass Filter
This is a modern low pass filter to go between your transmitter
and antenna, and has been optimized to have more attenuation
in the 40 MHz region, where many TVs have their IF. It is good
for 1000 Watts "average" according to the manual, and has
over 80 db attenuation at 41 MHz. This one looks great, and
includes the paper work. $30

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has
cutouts in the back for antenna, power, etc. It includes
the shoulder strap, and is in good shape. $12

Case for Drake TR-22
As above, but for the TR-22. No shoulder strap. $10

"Unobtanium" 3 pin mic plug
This is the small 3 pin mic plug that fits the Drake TR-22
mic jack. It is much smaller than most of the mic connectors.
I thought these were completely gone, but one appeared from
a silent key. This one has been used, but should still be
usable some more. $12

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

2568. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-15 20:38:22 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2568

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2569. Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-15 21:31:37 UTC
From: mydogchillroy
Topic: 2569 Message: 2569

Hello Everyone,

I am considering the purchase of a Drake TR-4, VFO and Amp/PS.

I do not have a radio other than a tri-band HT which I purchased this year. The ham radio bug hit when I was looking into marine radio for our sailboat. Since that time I have become an amateur radio operator with a General license. I find myself now studying for Element 4. I also listen to an ARRL tape on morse code on the ride to-from work in order to learn CW. I do not belong to a club and so my exposure to equipment is zero.

What is it about your Drake equipment/experience that you can tell me which will convince me that Drake is the way to go?

73s

Jim
KJ4QAH

2570. Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-15 21:42:20 UTC
From: Eric Zerkle
Topic: 2569 Message: 2570

why do I like Drakes? Because they are a FUN old rig to play with. The fun factor of the old rigs is better than the new rigs because you have to tune and load rather than turn on and talk. Plus the receiver audio on a Drake is wonderful.

[Non-text portions of this message have been removed]

2571. MN-2700 antenna tuner for sale . . . . .

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-15 22:53:24 UTC
From: kiddisjr
Topic: 2571 Message: 2571

.
.
.
I have "cherry picked" a pair of RL Drake HF antenna tuner MN-2700 that I have been holding in my personal collection for intended future personal use. However, lifes priorities have encouraged me to offer them now.

They are in near new condition with original owners manuals.
The prices are $395 firm. If interested, add $80 for the like new B-1000 baluns.
Buyer picks up in Orange county, California or pays double boxed Fedex ship (appx $24).

Overseas ship possible, inquire for ship rate.

I do NOT read this board everyday so if interested, please respond to:

KENNJD AT ADELPHIA DOT NET

Thanks

WB9YCJ

2572. Re: [DrakeRadio] Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-15 23:46:31 UTC
From: Mike
Topic: 2569 Message: 2572

The TR-4 can perform very well if properly set up and aligned. They may not be as easy to use as modern day products (need to be tuned) but a good performer and the audio is very easy to listen to. There are several filters and a NB option that you may want to consider depending on how you will be using the rig (SSB CW etc) that will/may influence the price of the rig. For their age a clean well adjusted Drake receiver can outperform or at least keep up wth many of todays midrange/highend receivers. Drakes are relatively easy to work on however some parts are becoming hard to find. In 20 yrs of owning Drakes I have never had a Drake fail/die completely, relays may need cleaning, PS caps or finals replaced, pretty minor stuff. My 7800 has been in the shop twice in three years, no way Im going to work on that. Drakes other products (R series receivers for instance) are still very competitve and can be aligned and modified to
keep up with higher end receivers on the market today. In general the Drakes provide a very good value for their performance providing you dont over pay for the unit initially. There are few "blue book" sites that can help with the pricing. Stock Drake equipment may not initallly support the WARC / 160Ms but with the addition of a xtal(s) those issues can be resolved. Interfacing to a Drake (for contesting etc) may present a challenge but for rag chewing/DXing they are hard to beat. So there ya go, thats why I like 'em.

K7MS/Lake Tahoe, NV

From: mydogchillroy <mydogchillroy@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, November 15, 2009 9:31:37 PM
Subject: [DrakeRadio] Why do you like Drake?

Hello Everyone,

I am considering the purchase of a Drake TR-4, VFO and Amp/PS.

I do not have a radio other than a tri-band HT which I purchased this year. The ham radio bug hit when I was looking into marine radio for our sailboat. Since that time I have become an amateur radio operator with a General license. I find myself now studying for Element 4. I also listen to an ARRL tape on morse code on the ride to-from work in order to learn CW. I do not belong to a club and so my exposure to equipment is zero.

What is it about your Drake equipment/experienc e that you can tell me which will convince me that Drake is the way to go?

73s

Jim
KJ4QAH

[Non-text portions of this message have been removed]

2573. Re: Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 01:11:20 UTC
From: mydogchillroy
Topic: 2569 Message: 2573

K7MS and the Group,

This is the type of information I was hoping for. Please continue. I like the idea of tune & load and I have heard of "glow in the dark" plus nostalgia as long as the equipment is set up and aligned properly per K7MS. I take it that the positives are great audio receive, ease of use and some short comings are limited/non NB and limited ability to split. K7MS, thanks for the info on how some parts are becoming harder to find. I aspire to the lighter side of amateur radio with not so much contesting, so the rag chew, DXing may be up my alley!

K7MS, KJ5QAH and the Group, 73s

Jim

--- In DrakeRadio@yahoogroups.com, Mike <mikestahoe@...> wrote:
>
> The TR-4 can perform very well if properly set up and aligned.Â They may not be as easy to use as modern day products (need to be tuned) but a good performer and the audio is very easy to listen to.Â There are several filters and a NB option that you may want to consider depending on howÂ you will be using the rig (SSB CW etc)Â Â that will/may influence the price of the rig.Â For their age aÂ clean well adjustedÂ Drake receiverÂ can outperform or at least keep up wth many of todays midrange/highend receivers.Â Â Drakes are relatively easy to work on however some parts are becoming hard to find.Â In 20 yrs ofÂ owningÂ Drakes I Â have never had a DrakeÂ fail/die completely, relays may need cleaning, PS capsÂ or finals replaced, pretty minor stuff.Â Â Â My 7800 has been in the shop twice in three years, no way Im going to work on that.Â Drakes other products (R series receivers for instance) are still very competitve and can be aligned and modified to
> keep up with higher endÂ receivers on the market today.Â Â In generalÂ the Drakes provide a Â very good value for their performance providing you dont over pay for the unit initially.Â There are few "blue book" sites that can help with the pricing.Â Stock Drake equipment mayÂ not initallly support the WARC / 160Ms but withÂ the addition of a xtal(s) those issues can beÂ resolved.Â Interfacing to a Drake (for contesting etc) may present a challenge
> but for rag chewing/DXing they are hard to beat. So there ya go, thats why I like 'em.
>
> K7MS/Lake Tahoe, NV
> Â
>
> _____
>
> From: mydogchillroy <mydogchillroy@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, November 15, 2009 9:31:37 PM
> Subject: [DrakeRadio] Why do you like Drake?
>
> Hello Everyone,

>
> I am considering the purchase of a Drake TR-4, VFO and Amp/PS.
>
> I do not have a radio other than a tri-band HT which I purchased this year. The ham radio bug hit when I was looking into marine radio for our sailboat. Since that time I have become an amateur radio operator with a General license. I find myself now studying for Element 4. I also listen to an ARRL tape on morse code on the ride to-from work in order to learn CW. I do not belong to a club and so my exposure to equipment is zero.
>
> What is it about your Drake equipment/experienc e that you can tell me which will convince me that Drake is the way to go?
>
> 73s
>
> Jim
> KJ4QAH
>
>
>
>
> [Non-text portions of this message have been removed]
>

2574. Re: [Drake Radio] Re: Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 01:31:24 UTC
From: Big Mike
Topic: 2569 Message: 2574

Hi Jim,

I have been using the old tube type radios since first licensed in '56. I have only owned one solid state radio in my life, and that was an Icom IC-735 that I bought just for mobile work. At the time I was driving big trucks.

Now, all I own are Drake pieces of equipment. I have a set of twins, TR-4, TR-4C/RV-4C, L-4B amp and various other pieces. I will never own anything else. They are easy to work on should the need arise. The have great audio, both transmit and receive. There are times I can make contacts with stations that others can't even hear on my nightly frequency. All of mine have had the blue LED's installed and they look great. Follow the link below and look at my Drake station if you like.

Hope this helps you make the right decision on buying Drake gear.

73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2575. Re: [DrakeRadio] Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 01:33:45 UTC
From: Paul Pollock
Topic: 2569 Message: 2575

Hi Jim KJ4QAH,

I own a TR-4/MS-4, and keep it on a shelf in my storage locker, wrapped in plastic. When I have time/money, I'm going to refurbish it (have already done the MS-4 update). I keep it because I have a bad feeling about Solar activity. We've had such a long period of dead solar activity, I have a hunch that things will return with a huge bang, and contain sufficient EM-energy to blow out everything from satellites to solid-state equipment on the ground. In some areas of the U.S. this will include power-management switching equipment. In others, everything from TV's, Cell-phones, and microcomputers will be damaged.
This kind of backlash occurred twice already in U.S. history, once in 1857, and again in 1958. But we were lucky (sort of <grin>) in that solid-state electronics was not in large-scale use in either one of these previous events. And the more manufacturers use circuits that use smaller and smaller internal voltages (tinier circuits require this to create smaller circuit channels) the easier an EM-event that damages circuits can occur.

So I am keeping one tube radio in reserve, as it uses circuits that have such high basic internal voltages, that it is unlikely to be sensitive to EM-surges from rampant Solar events.

But to answer you question, a working TR-4 is a good radio. It's more work to operate than one of the more modern rigs, but because of its' tubes circuits, and point-to-point wiring, a person with a schematic can often fix it himself with nothing more complicated than a soldering iron and some prayer <grin>. Even alignment is fairly straight-forward, but you have take precautions (because of the high internal voltages for safety) that a modern radio often doesn't even need.
A tube radio is also quite handy as an auxiliary room heater in your Winter shack <grin>. Especially when you are having an all-nighter on 75-m.

Good luck and have fun!

-Paul Pollock
KD7BWB

On Nov 15, 2009, at 2:31 PM, mydogchillroy wrote:

> Hello Everyone,
>
> I am considering the purchase of a Drake TR-4, VFO and Amp/PS.
>
> I do not have a radio other than a tri-band HT which I purchased this year. The ham radio bug hit when I was looking into marine radio for our sailboat. Since that time I have become an amateur radio operator with a General license. I find myself now studying for Element 4. I also listen to an ARRL tape on morse code on the ride to-from work in order to learn CW. I do not belong to a club and so my exposure to equipment is zero.
>
> What is it about your Drake equipment/experience that you can tell me which will convince me that Drake is the way to go?

>
> 73s
>
> Jim
> KJ4QAH
>
>

[Non-text portions of this message have been removed]

2576. Re: Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 20:32:27 UTC
From: bcbcfd
Topic: 2569 Message: 2576

My first rig in 1977 when I got my license that was offered to me was a Drake 4B Line, the T4XB, R4B. I then acquired through the next couple of years the C4 console and the MN 2000 tuner. There were great times had chasing DX on that equipment. The receiver had great audio and pretty good selectivity, sensitivity and the transmitter was great also. I still have them and will keep them as well. I still like to use them every once in a while.

73, Len K3LJ

2577. Dueling L4-Bs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 23:05:29 UTC
From: K4GM-George
Topic: 2577 Message: 2577

I have two L4-B amps and have decided to sell one. The big problem: which do I keep and which do I sell. Both are in good electrical condition. Both put out about the same power. One has an outboard fan mounted on top. The other is in virtual mint condition. Is it worth comparing drive levels for a given output? Would that indicate whether one set of tubes might be better than the other or could that vary a lot without being significant? Any other thoughts about judging the better of the two?? All replies greatly appreciated.

K4GM- George

2578. Re: Dueling L4-Bs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-16 23:19:20 UTC
From: jshea_n4dsp
Topic: 2577 Message: 2578

That's easy George. Sell me the one which is in mint condition cosmetically and electronically. Geez, it's not hard! For me anyways.
:)

john

--- In DrakeRadio@yahoogroups.com, K4GM-George <k4gm@...> wrote:
>
> I have two L4-B amps and have decided to sell one. The big problem:
> which do I keep and which do I sell. Both are in good electrical
> condition. Both put out about the same power. One has an outboard fan
> mounted on top. The other is in virtual mint condition. Is it worth
> comparing drive levels for a given output? Would that indicate whether
> one set of tubes might be better than the other or could that vary a lot
> without being significant? Any other thoughts about judging the better
> of the two?? All replies greatly appreciated.
>
> K4GM- George
>

2579. Re: R2 Resistor Cooked in TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-17 00:11:50 UTC
From: Noodle10536
Topic: 2561 Message: 2579

Garey, It is definitely the R2 resistor. It is cooked but good. After the audible short & smoke rising from the area you could smell and see the source. It all fell apart when I touched it lightly. I have put out feelers for some good used tuning coils. You are correct, that area of the radio is a real joy to access especially for a hacker. Even replacing the coils will be a bit of a challenge. Hopefully I can get it fixed and on the air. This one has the AM filter modification written about with the Inrad filter etc. Well I have the new resistors and when I get the coil(s) I will dive in. I tried pretty hard to find wiring shorts or other problems that would be readily identified visually, but no such luck. Could it be the coil can or cover causing the short? Thanks for your help. 73's, Peter KC2RBX

> If it's really R2, 1.5k @ 1/2W connected to the same terminal as the 750
> ohm, 5W resistor, it may just be an internal short in V1. It could also
> be a short in T1,T2 or T3. Possibly a shorted C8. Of course it could
> also be a physical short in the wiring associated with the above.
>
> R2 only feeds stage V1, so it's in that area, which naturally is a
> LOVELY area to troubleshoot! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Noodle10536 wrote:
> > I had my TR-4Cw sitting on my shack bench just receiving, no TX, and suddenly it shorted internally. I shut it down as quickly as I could. Upon inspection, the R2 resistor is cooked. Does anyone have any ideas what the most probable cause is for this particular short? Thanks, Peter.
> >
> >
> >
>

2580. Noise Blanker Effectiveness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-17 23:33:26 UTC
From: Richard Knoppow
Topic: 2580 Message: 2580

There was some discussion in the past about how
effective the noise blanker was in Drake receivers. I have
an R-4B, while I don't have ignition noise here I noticed
that some high-level impulsive noises, caused by switching
stuff on and off, for instance, could desensitize the
receiver for a brief time. The noise caused the AVC to
opeate and the long time constant caused a noticable "hole".
The noise blanker competely prevents this. While it has no
effect on the sort of constant rasping power line noise
which is so common it does indeed work very well on
impulsive noise which would otherwise desensitize the
receiver.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2581. T1 and T2 tuning coils wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 04:00:36 UTC
From: Noodle10536
Topic: 2561 Message: 2581

Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use them. Thanks & 73, Peter KC2RBX

2582. Re: [DrakeRadio] T1 and T2 tuning coils wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 04:13:29 UTC
From: Garey Barrell
Topic: 2561 Message: 2582

Peter -

BOTH are shorted?????

The coils are the same in all the TR-4/C transceivers, so not all that
difficult to find.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Noodle10536 wrote:
> Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use
them. Thanks& 73, Peter KC2RBX
>
>

2583. My New Drake 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 14:10:59 UTC
From: Lee Buller
Topic: 2583 Message: 2583

Gents....

I have never owned a piece of Drake gear in my life, but I now own a Drake 2B. I was looking for a vintage receiver that was all tubes. I guess I had the BA scratch. Well, I picked up a HQ-110 at Dayton this year. I like the RX, but I felt there was something out there better.

I started looking and readying about every article there was on receivers frorm about 1955 to 1969. I landed on the Drake 2B. Well, along comes one on Ebay that seems to be ignored my everyone and I got it for a good price....at least I think I did. Came with a 2AQ too and that works too. I recently picked up the calibrator too which was on EBay. I paid way to much, but now I have it.

The 2B works on 80 and 20...but dead on 40. Asking questions, most people indicated a dead crystal on 40. I ordered one from ICM. It also seems dead on 15, but I will worry about that later.

I took the RX out of the case and looked at the guts! WoW! Impressive construction. I mean that is impressive. Now, I was a Heath person all my ham radio formative years because that is all I knew about out here in Lower Dump Truck Kansas at the age of 15.. So, I am really impressed with the design, quality, and care of construction.

I looked inside the box because there are two "jacks" on the back side that are not stock. Looks like someone put the audio out to a 1/4 inch jack and a 1/8 inch jack for some reason. I am going to remove those.

So, I am worried about the lack of RX on 40, but hopefully the crystal will take care of it. I too the crystal out and put it in "A" slot and it did now work there either. So, I am pretty sure it is bad. But, I am really impressed how it works on CW and SSB...filtering and the pass tuning is impressive...comparing to the rigs I have owned in the past.

The chasis is somewhat dirty, dusty and "stained", but I will be going over it with some Q-Tips and 409 cleaner.

So, that is the story....I am somewhat hooked on this little receiver.
I hope I can get it going again on 40 and 15. I am going to team it
together with and old Knight T-50 and its companion VFO. Fun!

By the way, anyone know where you can get one of those gray clips for the bottom of the receiver where the cabinet screws together? I am missing one.

73

Lee - K0WA

In our day and age it seems that Common Sense is in short supply. If you don't have any Common Sense - get some Common Sense and use it. If you can't find any Common Sense, ask

for help from somebody who has some Common Sense. Is Common Sense divine?

Common Sense is the image of the Creator expressing revealed truth in my mind. - J. Wolf

[Non-text portions of this message have been removed]

2584. Re: T1 and T2 tuning coils wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 14:57:27 UTC
From: Noodle10536
Topic: 2561 Message: 2584

Garey, Well....with the help of a buddy who is a repair technician who is also familiar with the problem with my particular radio, we have narrowed it to one of the two coils. It is an intermittent short and if you wiggle and straighten the aluminum covers on these two coils it stops for a long time. They seem to settle back to a skewed position and then after months of use the short presents itself again. I am leaning toward it being T1. I plan to take them out one at a time and replace what is necessary, but I do not want to leave it apart while I am searching for the coils for fear that I will forget how to re-assemble it. So it was my idea to have both on hand to change them out all at once. I will be doing the repairs and replacement myself and I am certainly not an expert on the circuitry. I am a competent parts changer but not a complex circuitry troubleshooter. I have emailed about 6 people from the internet Drake pages and come up empty. If you may know of a source, please let me know. Thanks for your help, Peter KC2RBX

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Peter -
>
> BOTH are shorted?????
>
> The coils are the same in all the TR-4/C transceivers, so not all that
> difficult to find.
>
> 73, Garey - K4OAH
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>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Noodle10536 wrote:
> > Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use them. Thanks& 73, Peter KC2RBX
> >
> >
>

2585. Re: Why do you like Drake?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 17:59:22 UTC
From: jb
Topic: 2569 Message: 2585

Have had my license just short of ten years. Got my General in my first year. Originally just wanted to get on the air - HF - and communicate throughout the Western state regions, particularly to a net my dad, ka7swi, is on. Great folks...would visit them in Yuma in the winter, especially for the SuperBowl. Most of those are SK now. The more I learned, the more I wanted to learn: first procedure, then mechanics and now electronics. But learning on newer rigs was way ahead of my game.

Had a Drake MN-4C tuner given to me (thanks Uncle Frank, wb6yjq) that was jury rigged but working and realized from researching the web how well these things were made and how much I could learn from them ...thanks to groups like this and their experienced hams... just as importantly, parts can still be found. Started collecting rigs and understanding how the different lines developed. Got hooked. Education is an addicting drug. Guess I am a little more nerdy that my past would indicate. =)

I also tend to be one of those guys that can't leave well enough alone. Everything I own usually gets tinkered with and "improved". One thing I learned from our elmers here is when to leave things alone; use it the way it was designed. ...not that there are not some times where improvements might be needed. Wisdom!

Still learning. Thanks guys, I jot down just about everything I can, ready to use it or not.

God bless
73
jb
kg6biw

2586. Re: [DrakeRadio] Re: T1 and T2 tuning coils wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-18 20:36:18 UTC
From: Garey Barrell
Topic: 2561 Message: 2586

Peter -

Bill's got the right idea (surprise!) :-)

I don't think I've ever had to replace a T1, but I would bet that the fault is repairable. UNLESS the short to the can occurred on the "downstream" end of the coil! I've run into a couple of coils that developed a short like that, and even though the 1.5k resistor sacrificed itself, the coil wire was charred and the "coil" had become a lump of copper.

I could probably come up with a T1 here if yours turns out to be unrepairable.

One coil in an R-4B had an external ferrite core that was a snug fit inside the aluminum can. There was a rubber washer between the bottom of the ferrite and the top of the header to insulate it from the wire terminals. After only about 30 years the header wires punched through the washer and shorted to ground, smoking the winding. The "top" of the header wires had been cut off with diagonal cutters, leaving a knife edge on the end of the header pushing against the bottom of the washer. When I found a replacement, the header wires had been bent over and THEN cut, leaving a nice smooth "side" against the washer.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Noodle10536 wrote:
> Garey, Well....with the help of a buddy who is a repair technician who is also familiar with the problem with my particular radio, we have narrowed it to one of the two coils. It is an intermittent short and if you wiggle and straighten the aluminum covers on these two coils it stops for a long time. They seem to settle back to a skewed position and then after months of use the short presents itself again. I am leaning toward it being T1. I plan to take them out one at a time and replace what is necessary, but I do not want to leave it apart while I am searching for the coils for fear that I will forget how to re-assemble it. So it was my idea to have both on hand to change them out all at once. I will be doing the repairs and replacement myself and I am certainly not an expert on the circuitry. I am a competent parts changer but not a complex circuitry troubleshooter. I have emailed about 6 people from the internet Drake pages and come up empty. If you may know of a source, please let me know. Thanks for your help, Peter KC2RBX
>
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:

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>>
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>> Noodle10536 wrote:
>>
>>> Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use them. Thanks& 73, Peter KC2RBX
>>>
>>>

2587. looking for drake power transformer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 01:31:55 UTC
From: w1fued@sbcglobal.net
Topic: 2587 Message: 2587

The power transformer is shorted in the primary of my 1-a rx.
Looking for replacement, hopefully one with 12 volts for filaments. The 2a and 2b had only 6 volts for filament, but 4 line has 12 volts for filaments available. Please let me know what you might have.
Thanks,
Ed
W1FU

2588. Re: T1 and T2 tuning coils wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 01:38:45 UTC
From: w1fued@sbcglobal.net
Topic: 2561 Message: 2588

DONT KNOW IF I CAN HELP, BUT HAVE A TR3 WITH ALL COILS, IF SOMEONE CAN TELL YOU IF THEY ARE THE SAME, THEY ARE YOURS.
ED
--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use them. Thanks & 73, Peter KC2RBX
>

2589. Dreaming Drakes on an EICO budget

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 14:29:39 UTC
From: DD
Topic: 2589 Message: 2589

I'm looking at Drakes on ebay and everywhere. Do I remember correctly that most Drakes use a standard 4 pin mic and need an un-powered mic as opposed to a pre-amp mic. I have a good Turner Plus 3 pre-amp model. Will it work? My only experience with Drakes was about 15 years ago. I was running FT 840's(because of their simplicity) and a ham friend "stored" his "Twins"(4B's if I remember right) at my place for a little over a year(his divorce). He did allow me to use them, not sure I would have done that but he knew I started with an HW 16 and had several HW 101's under my belt. I got hooked. I sold the FT's and Ameritron 22 months ago because of a "change of direction journey" I'm on (long story), now I have the old HF itch so, ergo, the Drake hunt begins. I'm presently looking hard at a TR-4C with no mike, therefore my question. tnx de WD5HXB.

So now we're sort of introduced...tnx agn for letting me join.

D.D. in Delight, AR (temp in Camden, AR)

wachitapilot@...
wd5hxb@...

2590. Dreaming Drakes on an EICO budget

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 14:35:52 UTC
From: DD
Topic: 2589 Message: 2590

May have answered my own question. Is a PJ-068 plug a standard TRS 1/4 plug or special item...look the same to me...tnx agn...de HXB.

2591. Re: [DrakeRadio] Dreaming Drakes on an EICO budget

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 15:13:14 UTC
From: Lou W0TQ
Topic: 2589 Message: 2591

I used a Turner +3 on a TR-4 with no problems. Just keep the pre-amp turned down so you don't over drive it.

And yes, the Drake 4 series all use the Switchcraft .210 plug. The CW key jack is 1/4 mono plug.

Good luck with it, they are a lot of fun.

Lou W0TQ

DD wrote:
>
>
> I'm looking at Drakes on ebay and everywhere. Do I remember correctly
> that most Drakes use a standard 4 pin mic and need an un-powered mic
> as opposed to a pre-amp mic. I have a good Turner Plus 3 pre-amp
> model. Will it work? My only experience with Drakes was about 15 years
> ago. I was running FT 840's(because of their simplicity) and a ham
> friend "stored" his "Twins"(4B's if I remember right) at my place for
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> my question. tnx de WD5HXB.
>
> So now we're sort of introduced...tnx agn for letting me join.
>
> D.D. in Delight, AR (temp in Camden, AR)
>
> wachitapilot@... <mailto:wachitapilot%40yahoo.com>
> wd5hxb@... <mailto:wd5hxb%40arrl.net>
>
>

[Non-text portions of this message have been removed]

2592. Re: [DrakeRadio] Dreaming Drakes on an EICO budget

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 15:40:04 UTC
From: Big Mike
Topic: 2589 Message: 2592

The PJ-068 is .209", not 1/4". They look pretty close to the same but the 1/4" will not plug in the smaller jack.

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2593. TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 22:17:08 UTC
From: Butch Housman
Topic: 2593 Message: 2593

I've had a TR4 listed on qrz but have been so jerked around by would be buyers that I'm going to relist it next wk after I get back from a trip.

I think I'll go for $275 delivered in the lower 48. The transceiver is in very nice shape but the ps/speaker is a little rough & has a hum which I think may be mechanical issue, I get gud reports/ clean sig, 150 or more watts out. Rec audio sounds gud.

The radio comes w/ hand mike (shure element), original manual, 10 assorted spare tubes (1 final) & the MS 4 speaker/power supply.

This time around it will be sold as is, first $$ buys it, paypal or credit card. No more "hold it for a while & I'll send u a check".

It works fine & I will be happy to put it on the air but that will have to be after I get back next wk.

I've posted some pics of it:

http://www.housmanphoto.com/tr4.htm

I can be reached at 606-549-2181 or 606-344-0460 cell

Tnx & Best wishes,

Butch KA4MIC

[Non-text portions of this message have been removed]

2594. Re: [DrakeRadio] TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-19 22:28:21 UTC
From: DD Smith
Topic: 2593 Message: 2594

Hate to be picky but does the hum go out on transmit or is it just in the PS? You must have seen that the 2 Eico's that were on Ebay aren't there anymore so I might be "rookable?"..hihi..tnx de HXB....Boy will the XYL have a fit when she hears abt this.

--- On Thu, 11/19/09, Butch Housman <cameraman@...> wrote:

From: Butch Housman <cameraman@...>
Subject: [DrakeRadio] TR4 for sale...agn
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 19, 2009, 4:17 PM

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Tnx & Best wishes,

Butch KA4MIC

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2595. Re: [DrakeRadio] TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 00:13:42 UTC
From: Butch Housman
Topic: 2593 Message: 2595

Tnx for the kind reply. I've tried to price it for a quick sale. I already have numerous boatanchors & I'm wanting to clear some out....I have a nice clean Hammarlund 110A vhf that needs to go too.

As for the HUM, it never learns the words !
It hums from the instant it's turned on 'till it's turned off. The hum is consistant & seems independant of the rigs audio output or anything else. This is what makes me think it's a "musical" transformer of some kind. Not to belittle the problem but I've found this sort of thing to be a rather common "vintage" radio sound.....not saying it SHOULD be there or that it can't be cleared up, just common.

Principly I'm selling it 'cause I'm just not that much into Drakes, no offence. I'm from Dayton, Ohio so they're sorta home town radios. I've had or used half a dozen or so & never really liked the sound (shot out ears ???). I will say this one sounds better to my ears than any one I've had before. It seemed to me to be in very nice shape & I bought it cheap ....couldn't help myself !

I have a Knwd 520S & a HW 101, both of which I really enjoy so I just don't have the space to set it up. It should have a gud home, that's why I'm not breaking it up & selling it piecemeal on ebay. It's a complete set & will stay that way as far as I'm concerned.

Tnx for the gud vibes from the group, I've enjoyed it & will probably continue to read the mail.

Butch
KA4MIC / nnn0zei

[Non-text portions of this message have been removed]

2596. Re: [DrakeRadio] TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 00:38:43 UTC
From: DD Smith
Topic: 2593 Message: 2596

I could call now but you mentioned a trip. Could you contact me "before" you list it again...I'm on a short budget and trying to gather the money as we speak, or whatever it is we're doing, emailing, I forgot. I thought seriously about a Kenwood TS 520,,,it was my first choice until I remembered my experience with Drakes...they can be cantankerous but I guess ego has something to do with it..I've owned a 520s and a couple of 101's, plus the HW 16,,,my first rig, and I had to wait on Jans Crystals to transmit...wow, I had 8 frequencies to work...4/80 meters, 2/40 and 2 /15...HOG HEAVEN...first contact was Finland, cw of course....not for an "old cb'er"...even on 11 meters I was a tad odd...ran a 5 channel Ratheon TWR 2,,,crystal...my VERY first radio experience.

I'll be in touch. I'd rather buy from a ham,,,and I hate that biddng on ebay and you never know what kind of whacko is selling,,,could have come vrom the bottom of a lake "boat anchor"? and they'd call it "Pristine" because the water was clear...hihi...tnx and I'll be in touch...de HXB.

See? I just can't even get away from the packet.....there's always 3 dots at the end of a line on packet to let other party know that "more to come"...tnx agn.

--- On Thu, 11/19/09, Butch Housman <cameraman@...> wrote:

From: Butch Housman <cameraman@...>
Subject: Re: [DrakeRadio] TR4 for sale...agn
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 19, 2009, 6:13 PM

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As for the HUM, it never learns the words !
It hums from the instant it's turned on 'till it's turned off. The hum is consistant & seems independant of the rigs audio output or anything else. This is what makes me think it's a "musical" transformer of some kind. Not to belittle the problem but I've found this sort of thing to be a rather common "vintage" radio sound.....not saying it SHOULD be there or that it can't be cleared up, just common.

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Tnx for the gud vibes from the group, I've enjoyed it & will probably continue to read the mail.

Butch
KA4MIC / nnn0zei

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2597. Re: [DrakeRadio] TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 02:39:19 UTC
From: Butch Housman
Topic: 2593 Message: 2597

>On Thu, Nov 19, 2009 at 7:38 PM, DD Smith <wachitapilot@...> wrote:

> >I could call now but you mentioned a trip. Could you contact me "before"
> you list it >again...I'm on a short budget and trying to gather the money as
> we speak,

Here's what to do. Get ur $$ together & call me on the cell,

606-344-0460

If u have any further questions I'll try & answer them. I won't hold it for anyone under any circumstances.....that's what lost me 3 chances to sell it so far. I put one buyer off while holding it for someone who didn't come thru. No offence meant to u.

I'd suggest paypal, that will give u some protection in case I'm a total lying, ripoff jerk. That is not the case but paypal is also easiest for me w/ slightly less fees than a credit card.

My paypal address is:

2sue@...

The first person who deposits $275 in that account owns the radio. No returns.

It is heavy, & Drake says NOT to ship it w/ the PS mounted in the speaker. It will take at least 2 boxes & I'll ship it via UPS insured within the lower 48 states only at my expense.

It absolutely, positively is working & in the condition u see in the pics & as I've described. If u get it all busted up or DOA then that will be between u & UPS. I will back u up however I can from this end. I can probably take a short video of it playing & some shots of how it was packed as evidence but I expect it will arrive OK. They really don't mess up much.

I may check email from time to time over the next few days but the cell will be best.

Tnx,
Butch Housman KA4MIC

PS. I'm gud on QRZ

[Non-text portions of this message have been removed]

2598. FS:R4 (Again)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 12:29:04 UTC
From: russellhulett
Topic: 2598 Message: 2598

There must be something in the water. Thought this receiver sold twice, most recently to a "gentleman" (not a ham) who told me the "check was in the mail" evidently changed his mind, just didn't bother to tell me. He's back on the other Drake list wanting to buy an R-4.

I bought the receiver about 6 mos ago (evidently for more than it was worth), have done nothing except use it. Seems to work fine to me. 80M, 40M, 20M, 15M, and 28.5MHz-29.0MHz are the bands the receiver was originally supplied with and they all work.
It is an R-4, s/n 0506. I think it is in good condition operationally and cosmetically, but am by no means an expert. Even the AVC circuit seems to function properly. Got enthused with Drake gear awhile ago and went overboard buying stuff. There are no optional crystals and just a xerox copy of the manual. I'm selling it because own two R-4s and don't need but one, am keeping the one that is in better cosmetic condition. So, one more time, I want to sell one of my R-4 receivers. $150 + shipping CONUSA. Contact me offline for details. LICENSED HAMS ONLY.

73, Curt KB5JO

[Non-text portions of this message have been removed]

2599. radiokit r4-c gen cvrg kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 23:14:24 UTC
From: barry whittemore
Topic: 2599 Message: 2599

I have a complete and unbuilt kit from radiokit for a TR4-C general coverage addition complete with cabinet.
i checked the parts and the only difference i can see is that instead of the knob and vernier, it comes with a vernier knob.
I will entertain offers for this and send it to the highest bidder.
If you have any questions please contact me off list. I can take pictures if needed. This has the Radiokit partslist and the QST article copy.
Barry
WB1EDI

_____
Windows 7: I wanted simpler, now it's simpler. I'm a rock star.
http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_myidea:112009

[Non-text portions of this message have been removed]

2600. Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-20 23:51:03 UTC
From: jshea_n4dsp
Topic: 2600 Message: 2600

Who is making digital readouts for Drakes nowadays?

john

2601. Re: [DrakeRadio] radiokit r4-c gen cvrg kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 00:15:14 UTC
From: rrkrr
Topic: 2599 Message: 2601

Do you have any copies of documentation or pictures you can forward, so
that I can figure out the scope of this thing?

Bob
K4ERR

barry whittemore wrote:
>
>
> I have a complete and unbuilt kit from radiokit for a TR4-C general
> coverage addition complete with cabinet.
> i checked the parts and the only difference i can see is that instead
> of the knob and vernier, it comes with a vernier knob.
> I will entertain offers for this and send it to the highest bidder.
> If you have any questions please contact me off list. I can take
> pictures if needed. This has the Radiokit partslist and the QST
> article copy.
> Barry
> WB1EDI
>
> ____
> Windows 7: I wanted simpler, now it's simpler. I'm a rock star.
> http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLMTAG
L:ON:WL:en-US:WWL_WIN_myidea:112009
> <http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLMTA
GL:ON:WL:en-US:WWL_WIN_myidea:112009>
>
> [Non-text portions of this message have been removed]
>
>

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~ ~ ~ ~ ~ ~ ~ ~ ~

"They are the arguments that kings have made for enslaving the people in
all ages of the world. You will find that all the arguments in favor of
king-craft were of this class; they always bestrode the necks of the
people, not that they wanted to do it, but because the people were
better off for being ridden."

Abraham Lincoln, July 10, 1858

2602. Re: Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 00:22:39 UTC
From: captcurt2000
Topic: 2600 Message: 2602

Check AADE..Almost All Digital or NZ3R..

Google either.

I use the AADE unit and it works well..is very stable..external of course. reads the injection freq and displays the op freq.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Who is making digital readouts for Drakes nowadays?
>
> john
>

2603. Re: Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 00:29:46 UTC
From: ki6nqt
Topic: 2600 Message: 2603

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Who is making digital readouts for Drakes nowadays?
>
> john
>

The AADE is also very easy to set up, works with many other analog recievers/xcievers, just scroll through the menu and go.

Tim Ki6NQT

2604. Re: Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 00:30:04 UTC
From: jim_n9ww
Topic: 2600 Message: 2604

John

Check out Electronic Specialty Products.

http://www.electronicspecialtyproducts.com/

I have 2 of their displays (one for my B-Line and one for my GT-550A). They work great, are easy to set-up and have a nice blue display.

73,
Jim N9WW

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Who is making digital readouts for Drakes nowadays?
>
> john
>

2605. Re: Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 00:54:21 UTC
From: jshea_n4dsp
Topic: 2600 Message: 2605

Thanks to all!
Santa is coming soon and I am dropping hints!

john

2606. Re: [DrakeRadio] radiokit r4-c gen cvrg kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 01:06:26 UTC
From: Terry Taylor
Topic: 2599 Message: 2606

"TR4-C general coverage addition" is in the May 1981 QST available on the
ARRL web site. Is this what you have, Barry?

73 Terry
N7BDL

----- Original Message -----
From: "rrkrr" <rrkrr@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, November 20, 2009 5:15 PM
Subject: Re: [DrakeRadio] radiokit r4-c gen cvrg kit

> Do you have any copies of documentation or pictures you can forward, so
> that I can figure out the scope of this thing?
>
> Bob
> K4ERR
>
> barry whittemore wrote:
>>
>>
>> I have a complete and unbuilt kit from radiokit for a TR4-C general
>> coverage addition complete with cabinet.
>> i checked the parts and the only difference i can see is that instead
>> of the knob and vernier, it comes with a vernier knob.
>> I will entertain offers for this and send it to the highest bidder.
>> If you have any questions please contact me off list. I can take
>> pictures if needed. This has the Radiokit partslist and the QST
>> article copy.
>> Barry
>> WB1EDI
>>
>> ____
>> Windows 7: I wanted simpler, now it's simpler. I'm a rock star.
>> http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLMTA
GL:ON:WL:en-US:WWL_WIN_myidea:112009
>> <http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLMT
AGL:ON:WL:en-US:WWL_WIN_myidea:112009>
>>
>> [Non-text portions of this message have been removed]
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> ~ ~ ~ ~ ~ ~ ~ ~ ~
>
> "They are the arguments that kings have made for enslaving the people in
> all ages of the world. You will find that all the arguments in favor of
> king-craft were of this class; they always bestrode the necks of the
> people, not that they wanted to do it, but because the people were
> better off for being ridden."
>
> Abraham Lincoln, July 10, 1858
>
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> ---
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> Yahoo! Groups Links
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>

2607. RE: [DrakeRadio] radiokit r4-c gen cvrg kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 01:16:24 UTC
From: barry whittemore
Topic: 2599 Message: 2607

I do not know for sure, as i do not see a date in the article, but i just took another look and it does show may 1981 on one page.
Barry
did you get the email with the tracking number?

> To: DrakeRadio@yahoogroups.com
> From: ttaylor2372@...
> Date: Fri, 20 Nov 2009 18:06:26 -0700
> Subject: Re: [DrakeRadio] radiokit r4-c gen cvrg kit
>
> "TR4-C general coverage addition" is in the May 1981 QST available on the
> ARRL web site. Is this what you have, Barry?
>
> 73 Terry
> N7BDL
>
> ----- Original Message -----
> From: "rrkrr" <rrkrr@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, November 20, 2009 5:15 PM
> Subject: Re: [DrakeRadio] radiokit r4-c gen cvrg kit
>
>
> > Do you have any copies of documentation or pictures you can forward, so
> > that I can figure out the scope of this thing?
> >
> > Bob
> > K4ERR
> >
> > barry whittemore wrote:
> >>
> >>
> >> I have a complete and unbuilt kit from radiokit for a TR4-C general
> >> coverage addition complete with cabinet.
> >> i checked the parts and the only difference i can see is that instead
> >> of the knob and vernier, it comes with a vernier knob.
> >> I will entertain offers for this and send it to the highest bidder.
> >> If you have any questions please contact me off list. I can take
> >> pictures if needed. This has the Radiokit partslist and the QST
> >> article copy.
> >> Barry
> >> WB1EDI
> >>
> >> _____
> >> Windows 7: I wanted simpler, now it's simpler. I'm a rock star.

> >> http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WLM
TAGL:ON:WL:en-US:WWL_WIN_myidea:112009
> >> <http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WL
MTAGL:ON:WL:en-US:WWL_WIN_myidea:112009>
> >>
> >> [Non-text portions of this message have been removed]
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> >
> > "They are the arguments that kings have made for enslaving the people in
> > all ages of the world. You will find that all the arguments in favor of
> > king-craft were of this class; they always bestrode the necks of the
> > people, not that they wanted to do it, but because the people were
> > better off for being ridden."
> >
> > Abraham Lincoln, July 10, 1858
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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Windows 7: It works the way you want. Learn more.
http://www.microsoft.com/Windows/windows-7/default.aspx?ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen:112009v2

[Non-text portions of this message have been removed]

2608. Re: [DrakeRadio] radiokit r4-c gen cvrg kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 01:44:56 UTC
From: Terry Taylor
Topic: 2599 Message: 2608

Yes, I did, thanks The article seemed to describe the kit you have
perfectly.

73 Terry
N7BDL
----- Original Message -----
From: "barry whittemore" <wb1edi@...>
To: "drake yahoo" <drakeradio@yahoogroups.com>
Sent: Friday, November 20, 2009 6:16 PM
Subject: RE: [DrakeRadio] radiokit r4-c gen cvrg kit

>
> I do not know for sure, as i do not see a date in the article, but i just
> took another look and it does show may 1981 on one page.
> Barry
> did you get the email with the tracking number?
>
>
>
>
>> To: DrakeRadio@yahoogroups.com
>> From: ttaylor2372@...
>> Date: Fri, 20 Nov 2009 18:06:26 -0700
>> Subject: Re: [DrakeRadio] radiokit r4-c gen cvrg kit
>>
>> "TR4-C general coverage addition" is in the May 1981 QST available on
>> the
>> ARRL web site. Is this what you have, Barry?
>>
>> 73 Terry
>> N7BDL
>>
>> ----- Original Message -----
>> From: "rrkrr" <rrkrr@...>
>> To: <DrakeRadio@yahoogroups.com>
>> Sent: Friday, November 20, 2009 5:15 PM
>> Subject: Re: [DrakeRadio] radiokit r4-c gen cvrg kit
>>
>>
>> > Do you have any copies of documentation or pictures you can forward, so
>> > that I can figure out the scope of this thing?
>> >
>> > Bob
>> > K4ERR
>> >

>> > barry whittemore wrote:
>> >>
>> >>
>> >> I have a complete and unbuilt kit from radiokit for a TR4-C general
>> >> coverage addition complete with cabinet.
>> >> i checked the parts and the only difference i can see is that instead
>> >> of the knob and vernier, it comes with a vernier knob.
>> >> I will entertain offers for this and send it to the highest bidder.
>> >> If you have any questions please contact me off list. I can take
>> >> pictures if needed. This has the Radiokit partslist and the QST
>> >> article copy.
>> >> Barry
>> >> WB1EDI
>> >>
>> >> ____
>> >> Windows 7: I wanted simpler, now it's simpler. I'm a rock star.
>> >> http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:WL
MTAGL:ON:WL:en-US:WWL_WIN_myidea:112009
>> >> <http://www.microsoft.com/Windows/windows-7/default.aspx?h=myidea?ocid=PID24727::T:W
LMTAGL:ON:WL:en-US:WWL_WIN_myidea:112009>
>> >>
>> >> [Non-text portions of this message have been removed]
>> >>
>> >>
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>> > ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
>> >
>> > "They are the arguments that kings have made for enslaving the people
>> > in
>> > all ages of the world. You will find that all the arguments in favor of
>> > king-craft were of this class; they always bestrode the necks of the
>> > people, not that they wanted to do it, but because the people were
>> > better off for being ridden."
>> >
>> > Abraham Lincoln, July 10, 1858
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>> Yahoo! Groups Links
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> ____
> Windows 7: It works the way you want. Learn more.
> http://www.microsoft.com/Windows/windows-7/default.aspx?ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen:112009v2
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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2609. Re: Digital Readouts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 02:19:58 UTC
From: ki6nqt
Topic: 2600 Message: 2609

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Who is making digital readouts for Drakes nowadays?
>
> john
>

I made a slight booboo in my last post. The Digital readout that I was refering to is the DD-103 from Universal Digital Dial. I do have both and the DD-103 has more radios in the memory to chose from and is easyer to move about in the memory.

2610. Repair Update on TR-4Cw

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 05:04:09 UTC
From: Noodle10536
Topic: 2561 Message: 2610

Hi Everyone, I managed to pull the cans off the coils and inspect them. I can not find any evidence of shorts in the T1, T2 & T3 coils. I began looking around the underside of the radio and found that a previous owner had re-wired the V14 tube socket and that a capacitor on board 5 was probably never installed well and was loose and half out. I will double check the coils and cans and put them back together. I will then replace the R2 resistor and try to put the V14 socket back the way it sould be and fix the loose capacitor on Board 5. I have the correct 13DE7 tube and will hope for the best. After I am fairly secure things are right I will give it a smoke test. Thanks very much for everyone's help. 73 Peter KC2RBX

--- In DrakeRadio@yahoogroups.com, "w1fued@..." <w1fued@...> wrote:
>
>
> DONT KNOW IF I CAN HELP, BUT HAVE A TR3 WITH ALL COILS, IF SOMEONE CAN TELL YOU IF THEY ARE THE SAME, THEY ARE YOURS.
> ED
> --- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@> wrote:
> >
> > Does anybody have good used serviceable T1 and T2 tuning coils for my TR-4Cw? I could use them. Thanks & 73, Peter KC2RBX
> >
>

2611. TR 4 / TR 4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 17:46:26 UTC
From: DD
Topic: 2611 Message: 2611

What are the basic differences in the 4 and the 4C? I can see the dial is different...and heard the 4 didn't have a noise blanker and the 4C does...heard a post, can't find it about 6 volt filament voltage versus 12 volt filament voltage in some Drakes...??? Just worried about the diff between 4 and 4C...tnx de HXB.

2612. Drake TR-4 line INRAD AM Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 18:11:42 UTC
From: Dale Parfitt
Topic: 2612 Message: 2612

I have for sale an INRAD #2311 9MHZ Center freq 6KHz wide AM filter. This is the filter to allow full AM TX and RX on the TR-4 line.
It is mounted on a double sided plated through holes PCB that has silver turrets for IN/OUT and full relay switching along with a 1/2 wave filter/rectifier for generating relay switching voltage.
Pix available. See the TR-4 AM articles on the WB4HFN site:
http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/TR4C-AM-Filter.htm
http://www.wb4hfn.com/DRAKE/DrakeArticles/TR4_AM-Filter/TR4CW_AM-Filter_01.htm

In my application the PCB and its metal mount attached to the CW filter for a clean compact installation.

$100 shipped CONUS.

Dale W4OP

[Non-text portions of this message have been removed]

2613. Selling Drake 4 Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 20:30:35 UTC
From: Dan Galligan
Topic: 2611 Message: 2613

I have a T4X, R4A, MS4 and PS4 that I purchased as a project. When I bought them, I was told that they had a problem, and would not tune up, but had been tuning up, just a week before. I got them home and set them up, and got them tuned up, with no issues. I tended to think the problem was in the interconnects, but I am no technician, and can't be sure. It is operational, but something is not quite right, and I do not know what it is. The power supply looks to be all original caps, and unmodified, so will likely need a rebuild. The case on the R-4a has a corroded spot on the top front of the case. They definitely need cleaning up, and repainting the cases, in addition to the power supply rebuild. Otherwise, they performed well for me, for the short time I tested them. What they really need is someone with the knowledge and skill, who has the time to give them some tender loving care, and I am not that person. It is now more than a year later, and I have done nothing with it, so, it is time to sell, and let someone who is able, give it the attention it needs. It is not a bad set of radios, but it needs a bit of TLC. I want to get $300 for it, and my experience is that it will cost about $90-$100 to ship it, across the country. I'll split the cost of shipping, and for a total of $350, via USPS Money Order, or $360 for a PayPal payment, I will have it sent to you, anywhere in the ConUS. Alaska and Hawaii will be more. No international sales, please. Detailed high resolution pictures can be taken and emailed to you, for the asking. I have NOT yet taken them, as of writing this, but will do so today.

Dan Galligan
W3RXO
w3rxo (at) mac (dot) com

[Non-text portions of this message have been removed]

2614. Correction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-21 21:55:56 UTC
From: Daniel Galligan
Topic: 2614 Message: 2614

I knew when I wrote the listing for the Twins I have for sale, that the power supply is an AC-3, NOT an AC-4 as I accidentally wrote. I simply did a typographical error. When I went to take pictures, I saw the AC-3 on the back and realized I had mistakenly described it as an AC-4. But, I now have several high resolution pictures available for anyone who asks. AND, I thought I ought to mention this, which I forgot to mention before. While I am not a smoker, and it (the set) has never been in a smoking environment around me, I did a little light cleaning up, for the photos, and I would have to guess it was, at one time, in a smoking environment. It's not grungy, but smoke residue is apparent.

Dan Galligan
W3RXO
w3rxo (at) mac (dot) com

[Non-text portions of this message have been removed]

2615. 2B won't hold frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-23 15:59:08 UTC
From: n2chi
Topic: 2615 Message: 2615

I've got a 2b, new to me, that won't hold frequency. It varies by 200 to 400 cycles off the target frequency, most times sort of running up and then will immediately drop back down, but not necessarily.to where it was. I've re-seated the crystals and tubes. Vibration does not do it (when I bang on the radio), so I guess it's a component changing value, a voltage, etc.

I'm about to open 'er up, so any pre-surgical suggestions would be appreciated. For all I know, this is a common problem. But I did try to use the archives search facility, which yielded nothing.
Thanks,
Dave
n2chi

2616. Re: [DrakeRadio] 2B won't hold frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-23 16:22:00 UTC
From: Dale Parfitt
Topic: 2615 Message: 2616

----- Original Message -----
From: n2chi
To: DrakeRadio@yahoogroups.com
Sent: Monday, November 23, 2009 10:59 AM
Subject: [DrakeRadio] 2B won't hold frequency

I've got a 2b, new to me, that won't hold frequency. It varies by 200 to 400 cycles off the target frequency, most times sort of running up and then will immediately drop back down, but not necessarily.to where it was. I've re-seated the crystals and tubes. Vibration does not do it (when I bang on the radio), so I guess it's a component changing value, a voltage, etc.

I'm about to open 'er up, so any pre-surgical suggestions would be appreciated. For all I know, this is a common problem. But I did try to use the archives search facility, which yielded nothing.
Thanks,
Dave
n2chi

Hi Dave,
While I have not seen this in my 2B's, I did have an identical problem in my Hallicrafters Cyclone. It turned out to be one of the tubular temp compensating caps in the VFO. They seem to go flakey after many years.
Others had the same problem with the Cyclone oscillators.
If it only occurs on one band- check that band's xtal.
Also look at the B+ on V3's plate to make sure it is stable.

Dale W4OP

2617. Re: 2B won't hold frequency

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-23 18:56:43 UTC
From: n2chi
Topic: 2615 Message: 2617

Thanks, Dale, that's a good idea, to monitor the V3 plate voltage. I can do that easily and since the problem is steady, I should be able to tell quite quickly.
Thanks,
Dave
n2chi
--- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
>
> ----- Original Message -----
> From: n2chi
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, November 23, 2009 10:59 AM
> Subject: [DrakeRadio] 2B won't hold frequency
>
>
>
> I've got a 2b, new to me, that won't hold frequency. It varies by 200 to 400
> cycles off the target frequency, most times sort of running up and then will
> immediately drop back down, but not necessarily.to where it was. I've
> re-seated the crystals and tubes. Vibration does not do it (when I bang on
> the radio), so I guess it's a component changing value, a voltage, etc.
>
> I'm about to open 'er up, so any pre-surgical suggestions would be
> appreciated. For all I know, this is a common problem. But I did try to use
> the archives search facility, which yielded nothing.
> Thanks,
> Dave
> n2chi
>
>
>
> Hi Dave,
> While I have not seen this in my 2B's, I did have an identical problem in my
> Hallicrafters Cyclone. It turned out to be one of the tubular temp
> compensating caps in the VFO. They seem to go flakey after many years.
> Others had the same problem with the Cyclone oscillators.
> If it only occurs on one band- check that band's xtal.
> Also look at the B+ on V3's plate to make sure it is stable.
>
> Dale W4OP
>

2618. T-4XB Microphone adaptor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 19:47:10 UTC
From: jshea_n4dsp
Topic: 2618 Message: 2618

My transmitter has a 1/4" microphone jack but the mic has one of the smaller right angle plugs. Before I change out the mic plug to 1/4" is there an adapter to be had anywhere?

thanks

john

2619. Re: [DrakeRadio] T-4XB Microphone adaptor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 19:54:42 UTC
From: Dale Parfitt
Topic: 2618 Message: 2619

----- Original Message -----
From: jshea_n4dsp
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, November 24, 2009 2:47 PM
Subject: [DrakeRadio] T-4XB Microphone adaptor

My transmitter has a 1/4" microphone jack but the mic has one of the smaller right angle plugs. Before I change out the mic plug to 1/4" is there an adapter to be had anywhere?

thanks

john

Or put the TX back to original condition by putting a 0.206 mic socket in it.

Dale W4OP

2620. Drake paint

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 23:07:55 UTC
From: DD
Topic: 2620 Message: 2620

Just ran across an interesting thing that most of you probably already know but here it is:

For those who are interested in original Drake paint. That is a true baked powder coat finish, two part system and much more durable than a spray can job. The place to call is Hartzell Mfg. in Miamisburg, OH at 513-859-5955. vickroy@... They can repaint your cabinets to like new condx.

Came from http://www.qsl.net/n9bor/drake.htm

Hope to be on the Drake net in a week or two...tnx to all youse guys.

De HXB.

2621. Re: Drake paint

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 23:17:11 UTC
From: jshea_n4dsp
Topic: 2620 Message: 2621

HXB,
are you licensed or waiting for it's arrival?

john

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
> Just ran across an interesting thing that most of you probably already know but here it is:
>
> For those who are interested in original Drake paint. That is a true baked powder coat finish, two part system and much more durable than a spray can job. The place to call is Hartzell Mfg. in Miamisburg, OH at 513-859-5955. vickroy@... They can repaint your cabinets to like new condx.
>
> Came from http://www.qsl.net/n9bor/drake.htm
>
> Hope to be on the Drake net in a week or two...tnx to all youse guys.
>
> De HXB.
>

2622. Re: [DrakeRadio] Re: Drake paint

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 23:21:53 UTC
From: DD Smith
Topic: 2620 Message: 2622

Waiting for confirmation of sale and shipping....WD5HXB...Let license lapse in '80's ended up with KB5FTG (I think),,,when vanity started, regained my novice call.

[Non-text portions of this message have been removed]

2623. Re: Drake paint

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 23:52:22 UTC
From: jshea_n4dsp
Topic: 2620 Message: 2623

Good for you! Bringing back all those yesteryear memories!
Nice to meet you and looking forward to hearing you on the air.

john

--- In DrakeRadio@yahoogroups.com, DD Smith <wachitapilot@...> wrote:
>
> Waiting for confirmation of sale and shipping....WD5HXB...Let license lapse in '80's ended up with KB5FTG (I think),,,when vanity started, regained my novice call.
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> [Non-text portions of this message have been removed]
>

2624. D-104 wit h B Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-24 23:53:52 UTC
From: jshea_n4dsp
Topic: 2624 Message: 2624

The audio using the D-104 sounds tinny. Maybe good for dxing but I was thinking of putting a Heil HC-5 element into it. Has anyone done this and how do you like the results?

john

2625. Re: Drake paint

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 00:12:22 UTC
From: DD
Topic: 2620 Message: 2625

tnx john, waiting for TR 4...was just looking for any tube rig and this TR 4 miracle happened or seems to be in the works...man bought from is on vacation and will ship this week....well...now that this miracle has happened, maybe spring will bring a pair of Twins out of some closet I can work on and get them up...had the loan of a pair years ago...might as well dream big...gud to meet u...hope the TR 4 does fair on cw..I don't think it has a filter...but neither did my HW 16 I started with about 30 years ago...hihi...de HXB.

2626. RE: [Drake Radio] D-104 with h B Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 00:17:28 UTC
From: Walter Milton
Topic: 2624 Message: 2626

John,

I have changed the old element in the D-104 with the HC-5 element. But I have not had a chance to try it out on the air. I hope to have my TR-4CW back up and running in a week or so. Maybe I can meet you on the bands then? I am located in Southern New Jersey.

.-.
Walt, KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jshea_n4dsp
Sent: Tuesday, November 24, 2009 6:54 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] D-104 wit h B Line

The audio using the D-104 sounds tinny. Maybe good for dxing but I was thinking of putting a Heil HC-5 element into it. Has anyone done this and how do you like the results?

john

[Non-text portions of this message have been removed]

2627. Drake swap and chat at 8 PM Eastern Today on 3.865 JOIN THE FUN

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 00:22:51 UTC
From: Kris Merschrod
Topic: 2624 Message: 2627

Tune up and come on to 75 meters,

CUL,

Kris, (KA2OIG)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

2628. RE: [DrakeRadio] D-104 wit h B Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 00:33:26 UTC
From: Jim Chaggaris
Topic: 2624 Message: 2628

John,

I installed the Heil/D-104 mod/kit a couple of years ago for my B-line and it works FB. I still prefer using my Heil Goldline Vintage, Shure 444D or EV664 over the Heil/D104 with the B-line.

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jshea_n4dsp
Sent: Tuesday, November 24, 2009 5:54 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] D-104 wit h B Line

The audio using the D-104 sounds tinny. Maybe good for dxing but I was thinking of putting a Heil HC-5 element into it. Has anyone done this and how do you like the results?

john

[Non-text portions of this message have been removed]

2629. Re: [DrakeRadio] D-104 wit h B Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 01:12:30 UTC
From: Jim Shorney
Topic: 2624 Message: 2629

On Tue, 24 Nov 2009 23:53:52 -0000, jshea_n4dsp wrote:

>The audio using the D-104 sounds tinny.

Try butting a 470K (or larger) resistor in series with the element.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2630. Re: [DrakeRadio] D-104 wit h B Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 02:30:34 UTC
From: GEORGE GRAULICH
Topic: 2624 Message: 2630

I have the d-104 with the HC-5 in it and its not much better then the stock D-104. Try and get your hands on a shure 444D mike and you'll be very happy. Thats what i use now on my "C" line and get great reports. I grabbed one up from Ebay in very good condition from a ham that was very into Drake and i think i paid around 60.00 $ for it.

--- On Tue, 11/24/09, jshea_n4dsp <jshea109@...> wrote:

From: jshea_n4dsp <jshea109@...>
Subject: [DrakeRadio] D-104 wit h B Line
To: DrakeRadio@yahoogroups.com
Date: Tuesday, November 24, 2009, 6:53 PM

The audio using the D-104 sounds tinny. Maybe good for dxing but I was thinking of putting a Heil HC-5 element into it. Has anyone done this and how do you like the results?

john

[Non-text portions of this message have been removed]

2631. Re: T-4XB Microphone adaptor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 13:22:11 UTC
From: David & Chris Drake
Topic: 2618 Message: 2631

Hi,
Changing the mic plug to 1/4 is never recommended. Right angle .206 plugs are available from Mouser and other supply houses and of course on ebay.
Drake designed these inputs so that an operator would not confuse the mic with the speaker. Collins used the same plug, likely for the same reason. Here's a great resourse for drake parts, and a very helpfull website. Many of us have contributed to this collection of RL Drake knowledge.
http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/DRAKE-TECH-EXCHANGE-11.pdf
Yes, you can get 1/4 stereo plugs and jacks cheaply from many sources, but your rig is no longer original.
Good luck
David
Wd9cmd

[Non-text portions of this message have been removed]

2632. Re: T-4XB Microphone adaptor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 16:46:34 UTC
From: jshea_n4dsp
Topic: 2618 Message: 2632

Thanks David.

john

--- In DrakeRadio@yahoogroups.com, "David & Chris Drake" <drakes@...> wrote:
>
> Hi,
> Changing the mic plug to 1/4 is never recommended. Right angle .206 plugs are available from Mouser and other supply houses and of course on ebay.
> Drake designed these inputs so that an operator would not confuse the mic with the speaker. Collins used the same plug, likely for the same reason. Here's a great resourse for drake parts, and a very helpfull website. Many of us have contributed to this collection of RL Drake knowledge.
> http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/DRAKE-TECH-EXCHANGE-11.pdf
> Yes, you can get 1/4 stereo plugs and jacks cheaply from many sources, but your rig is no longer original.
> Good luck
> David
> Wd9cmd
>
>
> [Non-text portions of this message have been removed]
>

2633. AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 16:42:31 UTC
From: Dave
Topic: 2633 Message: 2633

What is the correct wiring for adding a 3 prong ac wire to the AC4 instead of the 2 prong?
I know green is ground, but what is the correct placement of the white and black wire?
thanks
Wink
Wa8koq

2634. Re: [DrakeRadio] AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-25 23:12:14 UTC
From: Jim K5JG
Topic: 2633 Message: 2634

Wink,

The Black lead is HOT, the White lead is neutral.

Connect the Black lead to the fuse holder where the lead from the
two-wire cord is/was connected.

Connect the White lead to the point where the other wire from the
two-wire cord is/was connected.

One of the first things I did after acquiring my Drake equipment was to
put a three-wire cord on both the AC4 and the R4B.

The purists may not like the three-wire cords, but safety is much more
important if the rigs are actually going to be used by someone.

73, Jim K5JG

Dave wrote:
> What is the correct wiring for adding a 3 prong ac wire to the AC4 instead of the 2
prong? I know green is ground, but what is the correct placement of the white and black
wire?
> thanks
> Wink
> Wa8koq
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> Yahoo! Groups Links
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2635. Re: [DrakeRadio] AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 02:25:49 UTC
From: Forrest Plumstead
Topic: 2633 Message: 2635

Dave wrote:

> > What is the correct wiring for adding a 3 prong ac wire to the AC4
> instead of the 2 prong? I know green is ground, but what is the correct
> placement of the white and black wire?
> > thanks
> > Wink
> > Wa8koq
>

Hi Wink!

I just recently modified my AC-4. Click here to my website.<http://forrest.3h.com/AC-3%20PS%20cabinet.html> Scroll down and you will see a picture of how I wired it. Smoke test - power supply, Drake TR 4, and operator survived without injury. I used a PC power cord with the connector to the PC cut off. Good luck.

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html

[Non-text portions of this message have been removed]

2636. Re: [DrakeRadio] AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 02:38:04 UTC
From: Kris Merschrod
Topic: 2633 Message: 2636

Nice project Forrest,

Thank you for sharing the photos.

I like the handles, those pwr spplys are awkward to balance. I also used a pre-molded powercord (#14 wire) but a 12 footer so that I had more "slack."
73,

Kris (KA2OIG)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

2637. Re: AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 13:48:59 UTC
From: Dave
Topic: 2633 Message: 2637

Thanks Jim and Forrest, I am also going to us a PC
power cord. Thanks the pictures
Forrest nice set up.
73
Wink
W8KOQ

--- In DrakeRadio@yahoogroups.com, Jim K5JG <k5jg@...> wrote:
>
> Wink,
>
> The Black lead is HOT, the White lead is neutral.
>
> Connect the Black lead to the fuse holder where the lead from the
> two-wire cord is/was connected.
>
> Connect the White lead to the point where the other wire from the
> two-wire cord is/was connected.
>
> One of the first things I did after acquiring my Drake equipment was to
> put a three-wire cord on both the AC4 and the R4B.
>
> The purists may not like the three-wire cords, but safety is much more
> important if the rigs are actually going to be used by someone.
>
> 73, Jim K5JG
>
>
> Dave wrote:
> > What is the correct wiring for adding a 3 prong ac wire to the AC4 instead of the 2
prong? I know green is ground, but what is the correct placement of the white and black
wire?
> > thanks
> > Wink
> > Wa8koq
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2638. Re: [DrakeRadio] Re: AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 14:42:53 UTC
From: Larry Taft
Topic: 2633 Message: 2638

Most PC power cords use the European/International color code:

Hot/Line = Brown
Neutral = Blue
Ground = Green/Yellow strip

Larry K2LT
drakerepair.com

Dave wrote:
> Thanks Jim and Forrest, I am also going to us a PC
> power cord. Thanks the pictures
> Forrest nice set up.
> 73
> Wink
> W8KOQ
>
> --- In DrakeRadio@yahoogroups.com, Jim K5JG <k5jg@...> wrote:
>
>> Wink,
>>
>> The Black lead is HOT, the White lead is neutral.
>>
>> Connect the Black lead to the fuse holder where the lead from the
>> two-wire cord is/was connected.
>>
>> Connect the White lead to the point where the other wire from the
>> two-wire cord is/was connected.
>>
>> One of the first things I did after acquiring my Drake equipment was to
>> put a three-wire cord on both the AC4 and the R4B.
>>
>> The purists may not like the three-wire cords, but safety is much more
>> important if the rigs are actually going to be used by someone.
>>
>> 73, Jim K5JG
>>
>>
>> Dave wrote:
>>
>>> What is the correct wiring for adding a 3 prong ac wire to the AC4 instead of the 2 prong? I know green is ground, but what is the correct placement of the white and black wire?
>>> thanks
>>> Wink
>>> Wa8koq

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[Non-text portions of this message have been removed]

2639. MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 17:19:23 UTC
From: Victor
Topic: 2639 Message: 2639

Hi
Have just acquired an MN-7 ATU but without handbook. Some of the connections and controls leave me a bit confused.
Firstly, it is fitted with a 1000 balun on the rear. Markings on the case next to the balun are as follows:-
Top connection Marked BAL
Middle connection marked NC - with Balun
Bottom connection marked Bal/LW (1:1 or 4:1)
BUT on this MN-7 someone has stuck a label next to the bottom connection and marked it No connection thus leaving only the top and middle connections available to connect a twin wire feed to.
This doesn't make any sense to me 'cos the middle connector says NC - with balun.
Any ideas, please?
Also, what are those damned slide switches for on the front panel?
I have a nasty feeling that this unit has been messed about with.
Cheers
Vic
G4JSS

2640. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 17:49:26 UTC
From: Jim Shorney
Topic: 2639 Message: 2640

On Thu, 26 Nov 2009 17:19:23 -0000, Victor wrote:

>Hi
>Have just acquired an MN-7 ATU but without handbook.

>Any ideas, please?

Read the manual :) :

http://www.wb4hfn.com/DRAKE/DrakeManuals/MN7/Manual_MN7.htm

73

-JIm

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2641. MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 20:17:05 UTC
From: Victor
Topic: 2639 Message: 2641

Steve, Jim
Thanks for info. Have now found out a little more. This MN-7 has been slightly altered. The bottom terminal marked Bal/LW has been disconnected and connected to the middle terminal (NC) Those two terminals are for balanced feeders and the bottom is now NC. Don't know why and I don't yet know what the bottom terminal of the balun is connected to - if anything.
Vic

2642. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-26 21:07:09 UTC
From: Jim Shorney
Topic: 2639 Message: 2642

On Thu, 26 Nov 2009 17:19:23 -0000, Victor wrote:

>on this MN-7 someone has stuck a label next to the bottom connection and marked it No connection thus leaving only the top and middle connections available to connect a twin wire feed to.
>This doesn't make any sense to me 'cos the middle connector says NC - with balun.
>Any ideas, please?

I'm not sure entirely what is going on there either. The bottom terminal has no internal connection in the tuner, thus is a balun-only connection. The middle terminal is grounded in all switch positions but 4. Maybe the previous owner was using this connection for a longwire? I would verify that there have been no internal changes made to the tuner, then operate it as per the manual. Maybe someone else has an idea. You'll probably get a definitive answer when Garey speaks up.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2643. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 02:40:50 UTC
From: Garey Barrell
Topic: 2639 Message: 2643

Vic -

The original setup with the B-1000 Balun essentially has the balun wired as an "auto-transformer", i.e., half the winding is connected across the unbalanced output of the tuner, and then the open-wire "balanced" feedline is connected across the full winding. There is no internal connection to the "bottom" terminal, just the "high" side of the balun, thus the "NC" indication on the "WITHOUT BALUN" diagram side. Put another way, the internal wiring to the three terminals doesn't change, just the labels.

The MN-7 is a very versatile tuner, capable of matching to just about anything, which is why it seems complicated.

All the combinations are described in the manual,

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Steve, Jim
> Thanks for info. Have now found out a little more. This MN-7 has been slightly altered. The bottom terminal marked Bal/LW has been disconnected and connected to the middle terminal (NC) Those two terminals are for balanced feeders and the bottom is now NC. Don't know why and I don't yet know what the bottom terminal of the balun is connected to - if anything.
> Vic
>
>
>

2644. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 03:12:54 UTC
From: Ken Burchfield
Topic: 2639 Message: 2644

Vic , and all
I put in the files section ...tech data of the Drake B-1000
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Thu, 11/26/09, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] MN-7
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 26, 2009, 8:40 PM

Vic -

The original setup with the B-1000 Balun essentially has the balun wired
as an "auto-transformer", i.e., half the winding is connected across the
unbalanced output of the tuner, and then the open-wire "balanced"
feedline is connected across the full winding. There is no internal
connection to the "bottom" terminal, just the "high" side of the balun,
thus the "NC" indication on the "WITHOUT BALUN" diagram side. Put
another way, the internal wiring to the three terminals doesn't change,
just the labels.

The MN-7 is a very versatile tuner, capable of matching to just about
anything, which is why it seems complicated.

All the combinations are described in the manual,

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Steve, Jim
> Thanks for info. Have now found out a little more. This MN-7 has been slightly altered. The bottom terminal marked Bal/LW has been disconnected and connected to the middle terminal (NC) Those two terminals are for balanced feeders and the bottom is now NC. Don't know why and I don't yet know what the bottom terminal of the balun is connected to - if anything.
> Vic
>
>
>

[Non-text portions of this message have been removed]

2645. MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 10:10:23 UTC
From: Victor
Topic: 2639 Message: 2645

Hi Gary, Ken
Thanks for input.
It doesn't seem to work right.
Looking down into the MN there are two connections from the switch to the top and middle terminals of the balun. The bottom is NC.
So looking at the rear of the balun which two terminals should be connected to the switch and which NC?
Sorry to labour this.

Vic

2646. RE: [DrakeRadio] AC4 3 Prong Wiring

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 12:29:26 UTC
From: Bob Spooner
Topic: 2633 Message: 2646

Wink,

When you connect the black lead to the fuse holder, make sure that you connect it to the _far_ end of the fuse holder from the chassis so that when you remove the fuse, it won't still be in contact with the hot lead when it's partially pulled out and the near end is exposed.

73,

Bob AD3K

Robert L. Spooner
Registered Professional Engineer
Associate Research Engineer
Intelligent Control Systems Department

Applied Research Laboratory Phone: (814) 863-4120
The Pennsylvania State University FAX: (814) 863-7841
P. O. Box 30
State College, PA 16804-0030 rls19@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim K5JG
Sent: Wednesday, November 25, 2009 6:12 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] AC4 3 Prong Wiring

Wink,

The Black lead is HOT, the White lead is neutral.

Connect the Black lead to the fuse holder where the lead from the two-wire cord is/was connected.

Connect the White lead to the point where the other wire from the two-wire cord is/was connected.

One of the first things I did after acquiring my Drake equipment was to put a three-wire cord on both the AC4 and the R4B.

The purists may not like the three-wire cords, but safety is much more important if the rigs are actually going to be used by someone.

73, Jim K5JG

Dave wrote:
> What is the correct wiring for adding a 3 prong ac wire to the AC4 instead

of the 2 prong? I know green is ground, but what is the correct placement of the white and black wire?
> thanks
> Wink
> Wa8koq
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[Non-text portions of this message have been removed]

2647. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 14:17:00 UTC
From: Garey Barrell
Topic: 2639 Message: 2647

Vic -

Sounds like it is wired correctly. The top and middle terminals should
have wires, and the bottom terminal should have NO wire.

If you think of the B1000 as a center tapped coil, the RF is applied
across one half, and the antenna feeders are connected across the entire
coil. The result is a 4:1 "step-up" impedance transformation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi Gary, Ken
> Thanks for input.
> It doesn't seem to work right.
> Looking down into the MN there are two connections from the switch to the top and middle terminals of the balun. The bottom is NC.
> So looking at the rear of the balun which two terminals should be connected to the switch and which NC?
> Sorry to labour this.
>
> Vic
>
>

2648. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 15:16:19 UTC
From: g4jss@tiscali.co.uk
Topic: 2639 Message: 2648

Garey and all

Thanks for bearing with me.

It seems it is wired correctly and I also think I have found the prob. On closer inspection I found that the board around the top terminal is charred and also the ' tinning ' around that terminal connecting to the balun has burnt away - hence no connection to the top balun terminal from the switch.

Will remedy that this p.m.

By the way, Garey, how are you these days? You seem to be very active again.

73

Vic

Travel tips and treats - http://www.tiscali.co.uk/travel

[Non-text portions of this message have been removed]

2649. R-11950

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 16:49:14 UTC
From: DD
Topic: 2649 Message: 2649

Cleaning out stuff, ran across an R-11950,,,if you know the significance of that number, might get in touch,,,it'll go cheap...pure "collector's item"...hihi...To those who don't know what it is,I'll post later...ah, the drama...de WD5HXB.

2650. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 17:36:42 UTC
From: Garey Barrell
Topic: 2639 Message: 2650

Vic -

OK, that would be a problem! :-) Not too difficult to repair though.

I'm doing good. Going to cardiac rehab three times a week, and walking with a cane, mainly for balance. Still walk a little like a two-year old. :-) But I'm getting stronger every day. Thanks for asking!

73, Garey - K4OAH
Glen Allen, VA

g4jss@... wrote:
> Garey and all
>
> Thanks for bearing with me.
>
> It seems it is wired correctly and I also think I have found the prob. On closer inspection I found that the board around the top terminal is charred and also the ' tinning ' around that terminal connecting to the balun has burnt away - hence no connection to the top balun terminal from the switch.
>
> Will remedy that this p.m.
>
> By the way, Garey, how are you these days? You seem to be very active again.
>
> 73
>
> Vic
>
>

2651. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-27 19:29:02 UTC
From: Ken Burchfield
Topic: 2639 Message: 2651

Thanks for the feedback. did you get manual and also check the files section and download the B-1000 info.
What Garey described is correct.
Vic look in the lower left bottom of the b-1000 file and zoom in on the dwg it is hard to see,but Garey's description will be clear.
Glad now that you will be able to resolve the tuner problem.// could be it maybe took a lighting strike./or.?
To: Garey hang in there ...I'm with you Myself had a Brain stem stoke in '91 so I know your type problem too.
73 to all
Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Fri, 11/27/09, g4jss@... <g4jss@...> wrote:

From: g4jss@... <g4jss@...>
Subject: Re: [DrakeRadio] MN-7
To: DrakeRadio@yahoogroups.com
Date: Friday, November 27, 2009, 9:16 AM

Garey and all

Thanks for bearing with me.

It seems it is wired correctly and I also think I have found the prob. On closer inspection I found that the board around the top terminal is charred and also the ' tinning ' around that terminal connecting to the balun has burnt away - hence no connection to the top balun terminal from the switch.

Will remedy that this p.m.

By the way, Garey, how are you these days? You seem to be very active again.

73

Vic

[Non-text portions of this message have been removed]

2652. Re: R-11950

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 00:39:04 UTC
From: w1kilofoxtrot
Topic: 2649 Message: 2652

I'm mostly a phone guy myself, and wouldn't do CW moving, but it might be a nice piece of kit for discussions... What's 'cheap'?

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
> Cleaning out stuff, ran across an R-11950,,,if you know the significance of that number, might get in touch,,,it'll go cheap...pure "collector's item"...hihi...To those who don't know what it is,I'll post later...ah, the drama...de WD5HXB.
>

2653. Re: R-11950

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 01:27:32 UTC
From: DD
Topic: 2649 Message: 2653

Well, I like the callsign, help with shipping and don't bid on the T-4 and R-4A on ebay...hihi. I have a TR-4 on the way, broke but those two are tempting...hihi.

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> I'm mostly a phone guy myself, and wouldn't do CW moving, but it might be a nice piece of kit for discussions... What's 'cheap'?
>
> 73,
> Steve
> W1KF
>

2654. Dc plug cord for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 01:52:13 UTC
From: Rich, Wally, Dick
Topic: 2654 Message: 2654

I need a DC plug/cord for an SPR4.
If ya have one you can do without please contact me off list.
Thanks,Radioman

Radioman@wideopenwest.com

2655. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 09:03:41 UTC
From: g4jss@tiscali.co.uk
Topic: 2639 Message: 2655

Ki Ken

Yep downloaded the manual for both the MN7 and the B-1000.

Fully understand what Garey meant by the balun being in effect an auto transformer (yep I did look at that little sketch in the bottom left hand corner)

Never thought about a lightning strike. I think that it is more likely that the terminal came loose with usage and the RF was arcing and burning.

All the best

Vic

Travel tips and treats - http://www.tiscali.co.uk/travel

[Non-text portions of this message have been removed]

2656. Part needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 14:38:57 UTC
From: jshea_n4dsp
Topic: 2656 Message: 2656

Does someone know the Mouser part number for the Drake T-4XB microphone plug? I recently put a 1/4" in and want to change it back to the original size. This is for the .206 jack.

Thank You.

john

2657. Re: [DrakeRadio] Part needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 15:03:24 UTC
From: Garey Barrell
Topic: 2656 Message: 2657

The flat, right angle plug for the side of the T-4XB is Mouser 502-S230.
The mating jack is Mouser 502-S-12B.

The Switchcraft p/ns are S230 and S12B.

The straight body plug, better for the T-4XC rear jack, is Mouser
502-S-260 or the 502-S267.

The "S" is important as there is ALSO a Switchcraft 230, 260 and 267,
but they are the 0.25 dia plug!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Does someone know the Mouser part number for the Drake T-4XB microphone plug? I recently put a 1/4" in and want to change it back to the original size. This is for the .206 jack.
>
> Thank You.
>
> john
>
>

2658. Re: [DrakeRadio] MN-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 15:31:59 UTC
From: Ken Burchfield
Topic: 2639 Message: 2658

Good deal Vic,
CU and You Have Fun!
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sat, 11/28/09, g4jss@... <g4jss@...> wrote:

From: g4jss@tiscali.co.uk <g4jss@...>
Subject: Re: [DrakeRadio] MN-7
To: DrakeRadio@yahoogroups.com
Date: Saturday, November 28, 2009, 3:03 AM

Ki Ken

Yep downloaded the manual for both the MN7 and the B-1000.

Fully understand what Garey meant by the balun being in effect an auto transformer (yep I did look at that little sketch in the bottom left hand corner)

Never thought about a lightning strike. I think that it is more likely that the terminal came loose with usage and the RF was arcing and burning.

All the best

Vic

[Non-text portions of this message have been removed]

2659. Re: R-11950

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-28 15:44:14 UTC
From: w1kilofoxtrot
Topic: 2649 Message: 2659

Fair enough. I promise I won't bid on any Drake gear for a bit (also broke) and I'll split the shipping with you.

I do think a TR-4C might be in my future though; I like my IC-718, but I miss the TR-3's that I had for a while a few years back.

Contact me off list if we need to work out any other details!

73,
Steve
W1KF (Wise 1 Keeps Fishing...)

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
>
>
>
> Well, I like the callsign, help with shipping and don't bid on the T-4 and R-4A on ebay...hihi. I have a TR-4 on the way, broke but those two are tempting...hihi.
>
> --- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@> wrote:
> >
> > I'm mostly a phone guy myself, and wouldn't do CW moving, but it might be a nice piece of kit for discussions... What's 'cheap'?
> >
> > 73,
> > Steve
> > W1KF
> >
>

2660. Drake For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 12:04:34 UTC
From: rumple70
Topic: 2660 Message: 2660

Selling Drake MS-4 Speaker...very nice $50.

Also selling Drake 2-C receiver...not very nice but works...$125.

73...KK9U.

2661. Re: [DrakeRadio] Drake For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 13:41:34 UTC
From: Lee Buller
Topic: 2660 Message: 2661

KK9U....

Tell me about your 2C Pics?

Lee - K0WA

In our day and age it seems that Common Sense is in short supply. If you don't have any Common Sense - get some Common Sense and use it. If you can't find any Common Sense, ask for help from somebody who has some Common Sense. Is Common Sense divine?

Common Sense is the image of the Creator expressing revealed truth in my mind. - J. Wolf

--- On Sun, 11/29/09, rumple70 <rumple70@comcast.net> wrote:

From: rumple70 <rumple70@...>
Subject: [DrakeRadio] Drake For Sale
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 29, 2009, 6:04 AM

Selling Drake MS-4 Speaker...very nice $50.

Also selling Drake 2-C receiver...not very nice but works...$125.

73...KK9U.

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2662. AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 15:38:55 UTC
From: jshea_n4dsp
Topic: 2662 Message: 2662

Besides Sherwood's mod for the AGC distortion with the R-4B is there anything that can remedy or help in this regard? I want to keep the rig original but at times the receiver quality sounds like I have a broken speaker cone. I turn the AGC to the off position at times. I may have asked this before but it doesn't come up on a search.

Thank You

john

2663. Re: [DrakeRadio] AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 15:51:48 UTC
From: Garey Barrell
Topic: 2662 Message: 2663

John -

The Drake R-4 series receivers have/had one of the very best AVC circuits around. If it really sounds that bad, you have a problem in the receiver.

Does it sound better with the RF GAIN backed off?

Having the Noise Blanker on will certainly cause some problem on very strong signals. What is the serial number of your receiver? The early models had AVC applied to the Noise Blanker IF Amp (V9), which was removed in later models. If yours is an early one, a gassy V9 could be loading down the AVC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Besides Sherwood's mod for the AGC distortion with the R-4B is there anything that can remedy or help in this regard? I want to keep the rig original but at times the receiver quality sounds like I have a broken speaker cone. I turn the AGC to the off position at times. I may have asked this before but it doesn't come up on a search.
>
> Thank You
>
> john
>
>
>

2664. Re: AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 16:37:24 UTC
From: jshea_n4dsp
Topic: 2662 Message: 2664

12982C is the Serial number Garey.
The noise blanker is off and yes
backing down on the rf gain control
certainly does help. It is very noticeable
on cw and unusable in the "fast"avc position.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> The Drake R-4 series receivers have/had one of the very best AVC
> circuits around. If it really sounds that bad, you have a problem in
> the receiver.
>
> Does it sound better with the RF GAIN backed off?
>
> Having the Noise Blanker on will certainly cause some problem on very
> strong signals. What is the serial number of your receiver? The early
> models had AVC applied to the Noise Blanker IF Amp (V9), which was
> removed in later models. If yours is an early one, a gassy V9 could be
> loading down the AVC.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2665. Re: [Drake Radio] Re: AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 17:38:36 UTC
From: Big Mike
Topic: 2662 Message: 2665

Don't feel bad. I've had the same problem for a few years now. I just run it in the "slow" position. Seems OK there. But you're right about the fast position. It is totally unusable. Since I'm only on SSB, it stays in slow and works fine for me. Guess I'm not particular about it. LOL Could be something as simple as a tube, who knows?

73,

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2666. Re: [DrakeRadio] Re: AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 17:56:07 UTC
From: Garey Barrell
Topic: 2662 Message: 2666

John -

Have you checked the decoupling resistors to each controlled grid?

I think what you are hearing is overload, which is either insufficient
AVC or "slow" AVC 'attack'.

I normally use SLOW AVC on CW, but just turned my R-4B to 20M and with
AVC in FAST and signals up to 20 over S9 and up, NO distortion is evident.

A gassy tube in V1, V4 or V5 could certainly prevent the AVC from having
sufficient control over a stage gain.

Something is NOT right.......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> 12982C is the Serial number Garey.
> The noise blanker is off and yes
> backing down on the rf gain control
> certainly does help. It is very noticeable
> on cw and unusable in the "fast"avc position.
>
> john
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> John -
>>
>> The Drake R-4 series receivers have/had one of the very best AVC
>> circuits around. If it really sounds that bad, you have a problem in
>> the receiver.
>>
>> Does it sound better with the RF GAIN backed off?
>>
>> Having the Noise Blanker on will certainly cause some problem on very
>> strong signals. What is the serial number of your receiver? The early
>> models had AVC applied to the Noise Blanker IF Amp (V9), which was
>> removed in later models. If yours is an early one, a gassy V9 could be
>> loading down the AVC.
>>

>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>

2667. Re: AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 17:59:23 UTC
From: jshea_n4dsp
Topic: 2662 Message: 2667

Will do Garey. Will let you know my findings.
Appreciate the info.

73
john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Have you checked the decoupling resistors to each controlled grid?
>
> I think what you are hearing is overload, which is either insufficient
> AVC or "slow" AVC 'attack'.
>
> I normally use SLOW AVC on CW, but just turned my R-4B to 20M and with
> AVC in FAST and signals up to 20 over S9 and up, NO distortion is evident.
>
> A gassy tube in V1, V4 or V5 could certainly prevent the AVC from having
> sufficient control over a stage gain.
>
> Something is NOT right.......
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2668. Re: [DrakeRadio] AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 18:01:04 UTC
From: Garey Barrell
Topic: 2662 Message: 2668

John -

Not to be offensive, but DO you have a broken (torn) speaker cone?? Or
a rubbing voice coil?? :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea_n4dsp wrote:
> Besides Sherwood's mod for the AGC distortion with the R-4B is there anything that can remedy or help in this regard? I want to keep the rig original but at times the receiver quality sounds like I have a broken speaker cone. I turn the AGC to the off position at times. I may have asked this before but it doesn't come up on a search.
>
> Thank You
>
> john
>
>

2669. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 20:00:56 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2669

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2670. Re: AGC Distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-29 20:57:27 UTC
From: jshea_n4dsp
Topic: 2662 Message: 2670

:))
No offense taken Garey! That was the first thing I checked Garey. Pulled the speaker out of the housing and checked it out and played it both in and out of the housing. Nothing damaged.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Not to be offensive, but DO you have a broken (torn) speaker cone?? Or
> a rubbing voice coil?? :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2671. Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 03:32:11 UTC
From: DD
Topic: 2671 Message: 2671

Expecting a TR 4 soon but would still dreaming "twins"...just missed an R 4 on ebay,,,not a good bidder, rather buy from a ham. One at a time would be okay as budget ain't that great (whose is now?). Tnx guys, the TR 4 that's coming came from here so I can still wish...cosmetics are of no concern as long as it has no major electrical flaws, at least you guys have made me give up on those Ysu and knwd stuff...tnx agn... WD5HXB

2672. Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 15:38:48 UTC
From: jshea_n4dsp
Topic: 2671 Message: 2672

There a slim pickings nowadays for Drake equipment. Hopefully you will find a nice B line in the near future so start now to save some greenbacks. Ron Baker does excellent refurbishing work. Drakes are a real joy to own and operate and with some guidance from some knowledgeable people on this forum you can repair the rigs yourself.
Nice to have you on board!

john

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
> Expecting a TR 4 soon but would still dreaming "twins"...just missed an R 4 on ebay,,,not a good bidder, rather buy from a ham. One at a time would be okay as budget ain't that great (whose is now?). Tnx guys, the TR 4 that's coming came from here so I can still wish...cosmetics are of no concern as long as it has no major electrical flaws, at least you guys have made me give up on those Ysu and knwd stuff...tnx agn... WD5HXB
>

2673. Re: [DrakeRadio] Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 16:40:24 UTC
From: W6IDS
Topic: 2671 Message: 2673

Hi John!

Who's Ron Baker and where is this Drake Guru?

I have the "B" line with an MN-4.

Howard W6IDS
Richmond, IN EM79

----- Original Message -----
From: "jshea_n4dsp" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 30, 2009 10:38 AM
Subject: [DrakeRadio] Re: Twins

> There a slim pickings nowadays for Drake equipment. Hopefully you will
> find a nice B line in the near future so start now to save some
> greenbacks. Ron Baker does excellent refurbishing work. Drakes are a real
> joy to own and operate and with some guidance from some knowledgeable
> people on this forum you can repair the rigs yourself.
> Nice to have you on board!
>
> john

2674. Re: [DrakeRadio] Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 16:46:13 UTC
From: Garey Barrell
Topic: 2671 Message: 2674

<http://www.wb4hfn.com/DRAKE/DrakePageHome.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

W6IDS wrote:
> Hi John!
>
> Who's Ron Baker and where is this Drake Guru?
>
> I have the "B" line with an MN-4.
>
> Howard W6IDS
> Richmond, IN EM79
>

2675. Re: [DrakeRadio] Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 17:07:16 UTC
From: W6IDS
Topic: 2671 Message: 2675

YIKES! That reply was FAST! Thanks muchly.

Howard W6IDS
Richmond, IN EM79

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 30, 2009 11:46 AM
Subject: Re: [DrakeRadio] Re: Twins

>
> <http://www.wb4hfn.com/DRAKE/DrakePageHome.htm>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> W6IDS wrote:
>> Hi John!
>>
>> Who's Ron Baker and where is this Drake Guru?
>>
>> I have the "B" line with an MN-4.
>>
>> Howard W6IDS
>> Richmond, IN EM79

2676. Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 17:09:47 UTC
From: jshea_n4dsp
Topic: 2671 Message: 2676

Hello Howard,
go to www.wb4hfn.com and click on Drake Servicing, Repair, and Refurbishing.

john

--- In DrakeRadio@yahoogroups.com, "W6IDS" <w6ids@...> wrote:
>
>
> Hi John!
>
> Who's Ron Baker and where is this Drake Guru?
>
> I have the "B" line with an MN-4.
>
> Howard W6IDS
> Richmond, IN EM79

2677. Re: [DrakeRadio] Re: Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 17:25:02 UTC
From: chip49@gmail.com
Topic: 2671 Message: 2677

Ron Baker just refurbished my TR4Cw and did an excellent job - I was shocked when I opened the shipping box... My TR4 looked brand new...just like it did in 1977 when I purchased it. Ron is very professional and quick to respond to email questions and his refurbishment costs were very reasonable. Regards, Chip WD5DUE.
Sent via BlackBerry by AT&T

-----Original Message-----
From: "jshea_n4dsp" <jshea109@...>
Date: Mon, 30 Nov 2009 17:09:47
To: <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] Re: Twins

Hello Howard,
go to www.wb4hfn.com and click on Drake Servicing, Repair, and Refurbishing.

john

--- In DrakeRadio@yahoogroups.com, "W6IDS" <w6ids@...> wrote:
>
>
> Hi John!
>
> Who's Ron Baker and where is this Drake Guru?
>
> I have the "B" line with an MN-4.
>
> Howard W6IDS
> Richmond, IN EM79

[Non-text portions of this message have been removed]

2678. Re: [DrakeRadio] TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-11-30 22:42:31 UTC
From: Butch Housman
Topic: 2593 Message: 2678

The radio is in UPS.

Tracking # - 3 boxes:

1z448x080329653410
1z48x080362988827
1z448x080362984881

Scheduled to arrive Wednesday

Tnx,

b

[Non-text portions of this message have been removed]

2679. Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 00:48:00 UTC
From: DD
Topic: 2593 Message: 2679

Just wanted to post to you and the group to let you guys know how much you are doing for the advancement of ham radio, and especially keeping Drakes alive...this group, and you, Butch made it possible for me to own a DRAKE...WOW...Dreams can come true. I no longer look for Eico's on e**y...hihi...thanks guys and especialy to you Butch...de HXB.

I'll be quiet now and wait "patiently"...hihi...not a chance...hihi.

--- In DrakeRadio@yahoogroups.com, Butch Housman <cameraman@...> wrote:
>
> The radio is in UPS.
>
> Tracking # - 3 boxes:
>
> 1z448x080329653410
> 1z48x080362988827
> 1z448x080362984881
>
> Scheduled to arrive Wednesday
>
> Tnx,
>
> b
>
>
> [Non-text portions of this message have been removed]
>

2680. Re: [DrakeRadio] Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 01:03:17 UTC
From: Butch Housman
Topic: 2593 Message: 2680

Man O Man, just wait till he get's this piece a junk Wednesday, he'll be burnin' the group up.....serious FLAMES ! U just can't trust ANYBODY (except ME).

Butch KA4MIC

[Non-text portions of this message have been removed]

2681. Re: [DrakeRadio] Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 02:37:20 UTC
From: DD Smith
Topic: 2593 Message: 2681

Not to worry, if I turn it on and smoke comes out, I have a smoke-a-tron.....The idea came from an April (as in April Fools Day) edition of QST, long ago. Some hams decided that electricity wasn't the major thing that ran radios...it's needed but you can turn it off and turn it back on and it still works...they decided that all radios actually ran on SMOKE. They even did "experiments"...they drilled a hole in a transformer,,,hooked it up and the smoke came out of it and it NEVER worked again...so they designed a chip with a screw on it so you could attach it to the radio, unscrew the screw and "put the smoke back in"...for the fun if it I built one. Now it's useless,,,I'll have to build several,,,one for tubes, one for capacitors and one for resistors....theirs was for these "new" rigs. I'll be happy...that's the beauty of Drakes (tubes),,,they can be fixed with minimal equipment,,,and not "sent back to the factory"...tnx agn...de HXB.

P.S. They actually experimented to the point that they decided that Cuban Cigar smoke worked best but most any smoke will do in a pinch...hihi....de HXB.

--- On Mon, 11/30/09, Butch Housman <cameraman@wildblue.net> wrote:

From: Butch Housman <cameraman@...>
Subject: Re: [DrakeRadio] Re: TR4 for sale...agn
To: DrakeRadio@yahoogroups.com
Date: Monday, November 30, 2009, 7:03 PM

Man O Man, just wait till he get's this piece a junk Wednesday, he'll be burnin' the group up.....serious FLAMES ! U just can't trust ANYBODY (except ME).

Butch KA4MIC

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2682. Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 02:39:33 UTC
From: DD
Topic: 2593 Message: 2682

Not to worry, Butch,,,I have a "smoke-a-tron". tnx agn de HXB.

--- In DrakeRadio@yahoogroups.com, Butch Housman <cameraman@...> wrote:
>
> Man O Man, just wait till he get's this piece a junk Wednesday, he'll be
> burnin' the group up.........serious FLAMES ! U just can't trust ANYBODY
> (except ME).
>
> Butch KA4MIC
>
>
> [Non-text portions of this message have been removed]
>

2683. Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 02:43:32 UTC
From: DD
Topic: 2593 Message: 2683

Sri abt the double post,,,overexcited I guess....I'll go to my room now.

2684. Drake 2 NT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 16:40:53 UTC
From: DD
Topic: 2684 Message: 2684

Drake museum link I have doesn't go back this far. Does the 2 nt transmitter require external p/s, if so what kind? tnx de HXB.

2685. Re: [DrakeRadio] Drake 2 NT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 17:02:50 UTC
From: David Rogers
Topic: 2684 Message: 2685

It has a built in power supply.

David, WA7ZYQ

----- Original Message -----
From: DD
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 01, 2009 8:40 AM
Subject: [DrakeRadio] Drake 2 NT

Drake museum link I have doesn't go back this far. Does the 2 nt transmitter require external p/s, if so what kind? tnx de HXB.

[Non-text portions of this message have been removed]

2686. TR7A problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-01 20:33:00 UTC
From: wctaylor
Topic: 2686 Message: 2686

Before I tear into my TR7A, has anyone had a problem with the AM carrier level being intermittent? The radio works great on SSB but to get any power on AM I have to advance the carrier level control and then turn it back down. The next time I transmit, it may or may not have power out and I have to readjust the control again. I've checked and cleaned the control plus I notice the power level verses control position varies greatly from band to band.

Thanks and 73
Bill
KD4LXC

_____
Weight Loss Program
Best Weight Loss Program - Click Here!
http://thirdpartyoffers.juno.com/TGL2141/c?cp=mB3KB-55YBM30RGrKqoVXQAAJ1D8Mitkx1gtsonCwGtEnnhwAAYAAAAAAAAAAAAAAAAAADNAAAAAAAAAAAAAAAAAAAEUgAAAAA=

2687. 2-NB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 08:40:24 UTC
From: wy3d2000
Topic: 2687 Message: 2687

I'm looking for a 2-NB noise blanker module for my 2-C. Can anyone help me out?
Frank, WA3JBT

2688. R102

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 16:06:29 UTC
From: jshea_n4dsp
Topic: 2688 Message: 2688

Anyone know what the wattage for R102 in the PTO of the R-4B? It is a 100 ohm resistor which I need to replace.

john

2689. Power supplies

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 16:37:49 UTC
From: DD
Topic: 2689 Message: 2689

Are the AC-3 and AC-4 interchangeable? I've heard something about filament voltages being different in different TR's..3 versus 4? Still learning de HXB

D.D.
WD5HXB

2690. Re: [DrakeRadio] 2-NB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 16:39:38 UTC
From: David Rogers
Topic: 2687 Message: 2690

I have one I could sell for $35.00 plus $10.00 priority mail shipping.

David, WA7ZYQ

----- Original Message -----
From: wy3d2000
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, December 02, 2009 12:40 AM
Subject: [DrakeRadio] 2-NB

I'm looking for a 2-NB noise blanker module for my 2-C. Can anyone help me out?
Frank, WA3JBT

[Non-text portions of this message have been removed]

2691. Re: [DrakeRadio] 2-NB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 16:54:47 UTC
From: Darrell Bellerive
Topic: 2687 Message: 2691

Being unencumbered by knowledge, let me ask what could be a ridiculous question:

Could a 2NB noise blanker be retrofitted to a 2B receiver?

--
Darrell Bellerive
Amateur Radio Station VA7TO
Grand Forks BC Canada

2692. Re: [DrakeRadio] Power supplies

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 19:58:20 UTC
From: Garey Barrell
Topic: 2689 Message: 2692

Both supplies are functionally identical and are fully interchangeable.

The TR-3 used 12JB6 Final tubes (3), while the TR-4 and all 4 Series Twins used 6JB6s. But the required filament _supply_ to ALL is 12.6 VAC.

Regardless of which supply you get, I would strongly recommend adding the AC-4R rebuild kit from The Heathkit Shop. The original electrolytic capacitors in ALL these supplies are about 20 or more years past their "expected" lifetime. At a bare minimum, replace the dual section capacitor in the Bias supply, since failure of this part can result in FAST and CATASTROPHIC failure in the transmitter, even while in Standby.

The AC-4 supply is a little simpler to upgrade with the AC-4, but will work in either supply.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

DD wrote:
> Are the AC-3 and AC-4 interchangeable? I've heard something about filament voltages being different in different TR's..3 versus 4? Still learning de HXB
>
> D.D.
> WD5HXB
>
>

2693. Re: [DrakeRadio] 2-NB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 19:59:53 UTC
From: Garey Barrell
Topic: 2687 Message: 2693

Darrell -

It probably "could" be, but would require modifications to the receiver
as it had no option for a Noise Blanker.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Darrell Bellerive wrote:
> Being unencumbered by knowledge, let me ask what could be a ridiculous
> question:
>
> Could a 2NB noise blanker be retrofitted to a 2B receiver?
>
>

2694. Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-02 20:31:34 UTC
From: DD
Topic: 2593 Message: 2694

Man O Man, I got it and already the complaints start...took me two hours to unpack,,,hihi....May get it fired up tonight. looks beautiful. tnx. Wow,,,,,a Drake...de HXB.

--- In DrakeRadio@yahoogroups.com, Butch Housman <cameraman@...> wrote:
>
> Man O Man, just wait till he get's this piece a junk Wednesday, he'll be
> burnin' the group up.........serious FLAMES ! U just can't trust ANYBODY
> (except ME).
>
> Butch KA4MIC
>
>
> [Non-text portions of this message have been removed]
>

2695. Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 04:39:29 UTC
From: DD
Topic: 2695 Message: 2695

It's been a long time, are the "A" tubes interchangeable with regular, i.e. 12AX7 AND 12AX7A AND 6AU6 VERSUS 6AU6A? Or can somebody refer to a site that does interchange numbers...Since I'm "officially" a Drake owner, I'm sure I'll be asking many such questions...reason being, I see these "lots" of tubes here and "there" and need to know the "A" question...when you get tired of me asking silly questions let me know before I become a pain...My "new" TR 4 seems to work fine on a dummy load so wire goes up tomorrow...tnx fer all your help...de HXB.

2696. Re: [DrakeRadio] Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 08:36:23 UTC
From: Richard Knoppow
Topic: 2695 Message: 2696

----- Original Message -----
From: "DD" <wachitapilot@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, December 02, 2009 8:39 PM
Subject: [DrakeRadio] Tubes

> It's been a long time, are the "A" tubes interchangeable
> with regular, i.e. 12AX7 AND 12AX7A AND 6AU6 VERSUS
> 6AU6A? Or can somebody refer to a site that does
> interchange numbers...Since I'm "officially" a Drake
> owner, I'm sure I'll be asking many such
> questions...reason being, I see these "lots" of tubes here
> and "there" and need to know the "A" question...when you
> get tired of me asking silly questions let me know before
> I become a pain...My "new" TR 4 seems to work fine on a
> dummy load so wire goes up tomorrow...tnx fer all your
> help...de HXB.
>
The 6AU6 and 12AX7 are listed in the RCA Receiving Tube
Manual RC-19 (1959) and the A versions of both tubes in the
RC-24 edition (1965). The 6AU6A is identical to the 6AU6
except that it has controlled heater warm up time (11
seconds) for use with series string heaters. The identical
characteristic curve graph is printed in both books.
The 12AX7A is stated to have controlled noise and hum
characteristics and there is a section specifying the values
and how they are measured. This is not mentioned in the
earlier book. The 12AX7A appears to have been designed
especially for low level audio circuits. Other than this the
characteristics of the two are identical.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2697. TR7/Linear amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 11:26:32 UTC
From: Victor
Topic: 2697 Message: 2697

Hi
Ive asked before and made a note but I have misplaced it - senility!
On the auxilliary socket on the TR7 are the connections for a linear relay pins 11 & 3? I don't have a PS7

Vic

2698. Re: [DrakeRadio] Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 14:00:38 UTC
From: Butch Housman
Topic: 2695 Message: 2698

I can't give u a general answer but if u'll look in ur manual someone has made some notations to the tube list that gives a few substitutions. Some of the tubes u got w/ the radio r subs.

b

[Non-text portions of this message have been removed]

2699. Re: [DrakeRadio] TR7/Linear amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 14:44:16 UTC
From: Garey Barrell
Topic: 2697 Message: 2699

Vic -

Nope, 8 and 10 (Ground). ALC is Pin 9.

All the pin functions are shown on page 3-5 of the TR-7 Operator's Manual.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi
> Ive asked before and made a note but I have misplaced it - senility!
> On the auxilliary socket on the TR7 are the connections for a linear relay pins 11& 3? I don't have a PS7
>
> Vic
>
>
>

2700. Re: Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 15:27:15 UTC
From: Ralph
Topic: 2695 Message: 2700

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
> It's been a long time, are the "A" tubes interchangeable with regular, i.e. 12AX7 AND 12AX7A AND 6AU6 VERSUS 6AU6A? Or can somebody refer to a site that does interchange numbers...Since I'm "officially" a Drake owner, I'm sure I'll be asking many such questions...reason being, I see these "lots" of tubes here and "there" and need to know the "A" question...when you get tired of me asking silly questions let me know before I become a pain...My "new" TR 4 seems to work fine on a dummy load so wire goes up tomorrow...tnx fer all your help...de HXB.
>

The "A" version of most tubes is an improved version. In some cases the heater is a controlled warm up as in the 6AU6A, usually for tubes used in a series filiment string. Others is for low noise and hum. The 12AX7A has a very small differance in the capacitance of the elements. You can usually use the A version as a subistute in most circuits without any problems. You can go the other way in non critical circuits.

If buying the tubes I would buy the exect replacement, but if I had them on hand or could get them free, I would not have any reserves about trying the tube.

2701. Re: [DrakeRadio] TR7/Linear amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 15:27:58 UTC
From: g4jss@tiscali.co.uk
Topic: 2697 Message: 2701

Hi Garey

Thanks for info. Have the TR7 operators hand book. Bit confusing. The pins you refer to are on the PS7 control socket - plug J in the handbook. but pins 11 & 3 on plug K also mention Vox relay and ground. Are they for a separate Rx muting?

73

Vic
Fun games for all the family - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

2702. Re: [DrakeRadio] TR7/Linear amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 16:07:45 UTC
From: Garey Barrell
Topic: 2697 Message: 2702

Yeah, the VOX contact on "K" is to mute an external receiver. This is the connector for transceiving with the R-7.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
>
> Thanks for info. Have the TR7 operators hand book. Bit confusing. The pins you refer to are on the PS7 control socket - plug J in the handbook. but pins 11& 3 on plug K also mention Vox relay and ground. Are they for a separate Rx muting?
>
> 73
>
> Vic
>
>

2703. Re: [Drake Radio] Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 17:04:21 UTC
From: Big Mike
Topic: 2695 Message: 2703

Welcome to the "World of Drake"! You will love it. The only equipment I own/operate is Drake. I've only owned one solid state rig and that was an Icom IC-735 that got over a million miles on it, riding in Peterbilt, Freightliner, and Kenworth trucks. That was my job after I retired from the fire department.

Have a Merry Christmas es 73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2704. Re: Power supplies

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 19:02:43 UTC
From: russellhulett
Topic: 2689 Message: 2704

"...recommend adding the AC-4R rebuild kit from The Heathkit Shop... At a bare minimum, replace the dual section capacitor in the Bias supply..."

Hello Gary,

I continue to debate about rebuilding my AC-4, because it is working ok, because the previous owner claimed to have re-capped it, and because kinda hate to "gut" it to install the AC-4R.

Having said that, will perform whatever preventative work is appropriate to prevent a "meltdown". Also intend replacing the two-wire AC with today's conventional three-wire.

So, if I replace the two-section C5 cap would that provide same prevention level as provided by an AC-4R for the bias failure.

I have the impression that your preference would be to gut the AC-4 and install an AC-4R rather than recapping one section ot the supply. What have you done with your AC-4 supplies?

Regards and 73, Curt KB5JO

2705. Re: [DrakeRadio] Re: [Drake Radio] Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 19:13:57 UTC
From: DD Smith
Topic: 2695 Message: 2705

tnx Mike...all the "Drake" people seem very nice and very informative....only ones that I don't like are the ones that buy estates and bust up a complete station because there's more money in it....but then they're NOT Drake people,,,they're out to just make a buck...Been dreaming Drakes throughout my ham history (started in 70's with HW 16 and 8 xtals,,,thought I was in heaven)...got caught up in the multi button, do everything for you stuff, even then I kept it simple, my most complicated "modern" rigs were 2 Yaesu FT 840's,,,not necessarily because of the money but they are simple, reliable and easy to use and will do most anything the 10,00 buck rigs will do...Thanks for the welcome. It' a beautiful day here in Arkansas (cool) so I'm in and out stringing up a long wire (all I have room for right now) cul on the Drake Net soon, I hope...de HXB.

D.D.
WD5HXB

--- On Thu, 12/3/09, Big Mike <k5vse@...> wrote:

From: Big Mike <k5vse@...>
Subject: [DrakeRadio] Re: [Drake Radio] Tubes
To: DrakeRadio@yahoogroups.com
Date: Thursday, December 3, 2009, 11:04 AM

Welcome to the "World of Drake"! You will love it. The only equipment I own/operate is Drake. I've only owned one solid state rig and that was an Icom IC-735 that got over a million miles on it, riding in Peterbilt, Freightliner, and Kenworth trucks. That was my job after I retired from the fire department.

Have a Merry Christmas es 73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks. tripod.com/ index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2706. Re: [DrakeRadio] TR7/Linear amp

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 19:45:01 UTC
From: g4jss@tiscali.co.uk
Topic: 2697 Message: 2706

Thanks Garey

All OK now, linear up and running using J 8&10

Cheers

Vic
Fun games for all the family - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

2707. Re: [DrakeRadio] Re: Power supplies

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-03 19:51:17 UTC
From: Garey Barrell
Topic: 2689 Message: 2707

Curt -

OK. If you know it has been recapped "recently" (in the last five years?) then you are probably ok. I would check the ESR of the Bias supply electrolytics and if ok then have at it! If you do not have an ESR meter, it's probably safest to replace the Bias caps and rectifier to give your best chance of trouble-free operation. BE SURE and check the primary line fuse! It should be a 5A (or 6.25A) for 120 VAC operation. Early supplies had a 5A, but it would blow occasionally if you just happened to switch it on at a line peak so Drake changed it to a 6.25A. I have found everything from the correct fuse, to a 30A ceramic fuse, to a piece of #8 copper wire in there! Even the correct fuse will not blow in time to save your Finals, but "may" prevent a fire.

I have several supplies, some converted, some not. I would not leave a T-4X/B/C or TR-3/4 "on" if I'm not in the room. I recommend the AC-4R simply because it essentially makes the power supply a reliable, "new" one at minimal hassle. There is certainly nothing wrong with sourcing new caps (hayseedhamfest.com) and diodes and "restoring" the original supply. The three-wire cord doesn't hurt anything, but any equipment of this type should be grounded directly without relying on the power cord.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> "...recommend adding the AC-4R rebuild kit from The Heathkit Shop... At a bare minimum, replace the dual section capacitor in the Bias supply..."
>
> Hello Gary,
>
> I continue to debate about rebuilding my AC-4, because it is working ok, because the previous owner claimed to have re-capped it, and because kinda hate to "gut" it to install the AC-4R.
>
> Having said that, will perform whatever preventative work is appropriate to prevent a "meltdown". Also intend replacing the two-wire AC with today's conventional three-wire.
>
> So, if I replace the two-section C5 cap would that provide same prevention level as provided by an AC-4R for the bias failure.
>
> I have the impression that your preference would be to gut the AC-4 and install an AC-4R rather than recapping one section ot the supply. What have you done with your AC-4

supplies?
>
> Regards and 73, Curt KB5JO
>
>
>

2708. Re: Power supplies

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-04 16:06:52 UTC
From: russellhulett
Topic: 2689 Message: 2708

Thanks Garey,

After reading all you and others have said, I "pulled the trigger" and bought the AC-4r kit. Maybe less trouble and not much more expensive than recapping/redioding the original, and as someone mentioned, the "guts" of the AC-4 are enclosed anyway. Don't imagine it will matter much to a future buyer.

Thanks for mentioning the possible "fuse" issues, will CHECK all of my Drake gear for proper size fuses. Can imagine why any Ham would decide to install the wrong fuse, but suppose anything is possible.

BTW, like you, I NEVER leave the shack without turning off and unplugging all of my Drake equipment. I know unplugging is probably paranoid, but with equipment that is nearing 50 years old, my trust level is pretty low. The XYL would never forgive my hobby setting fire to our weekend home.

Thanks again and 73, Curt KB5JO

2709. Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-05 00:04:00 UTC
From: DD
Topic: 2593 Message: 2709

Wanted to thank you on this forum, Butch...the trouble you went to, packing, shipping and all else...I won't say the radio is perfect but I did make it into the Razorback Net tonight on a very non perfect antenna....thank you for the great deal...all works fine as you said...I just have to read and remember the tuneup stuff but that's why I like this thing...Once again,,,no flames from here,,,just thanks...de HXB.

--- In DrakeRadio@yahoogroups.com, "DD" <wachitapilot@...> wrote:
>
> Man O Man, I got it and already the complaints start...took me two hours to unpack,,,hihi....May get it fired up tonight. looks beautiful. tnx. Wow,,,,,a Drake...de HXB.
>
> --- In DrakeRadio@yahoogroups.com, Butch Housman <cameraman@> wrote:
> >
> > Man O Man, just wait till he get's this piece a junk Wednesday, he'll be
> > burnin' the group up.........serious FLAMES ! U just can't trust ANYBODY
> > (except ME).
> >
> > Butch KA4MIC
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2710. Re: [DrakeRadio] Re: TR4 for sale...agn

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-05 15:28:57 UTC
From: Butch Housman
Topic: 2593 Message: 2710

Wasn't 'spose to be perfect. Glad u like it. Get up a basic dipole & U'll be cookin'.
As long as the "Golden Rule" is followed we should all get along OK.

Butch KA4MIC

[Non-text portions of this message have been removed]

2711. DRAKE R-4C to sell

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-05 17:04:13 UTC
From: Hans-Joachim Empel
Topic: 2711 Message: 2711

Hello Folks , i have a small Question to the experts

i have a DRAKE R-4C in near mint conditions.

the serial Number is (what i can read) : HS601

can this be correct or is the number 6HS601

what means the 601 is this receiver no. 601 ore receiver no. 01 from this series of receivers

thanks for yours help

Regards from Germany

Joachim (DL2388RB)

[Non-text portions of this message have been removed]

2712. Re: [DrakeRadio] DRAKE R-4C to sell

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-05 17:08:55 UTC
From: Garey Barrell
Topic: 2711 Message: 2712

Joachim -

The Drake R-4C serial numbers run from 16151 through something around
25400. There are no letters.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> Hello Folks , i have a small Question to the experts
>
> i have a DRAKE R-4C in near mint conditions.
>
> the serial Number is (what i can read) : HS601
>
> can this be correct or is the number 6HS601
>
> what means the 601 is this receiver no. 601 ore receiver no. 01 from this series of
receivers
>
> thanks for yours help
>
> Regards from Germany
>
> Joachim (DL2388RB)
>
>
>

2713. RE: [DrakeRadio] DRAKE R-4C to sell

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-05 19:01:39 UTC
From: Jim Chaggaris
Topic: 2711 Message: 2713

Joachim,

That is not the R4C serial number. I think the R4C numbers started at or around 16,000 (my R4B is serial # 16015) and go up to 29,000+.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Hans-Joachim Empel
Sent: Saturday, December 05, 2009 11:04 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] DRAKE R-4C to sell

Hello Folks , i have a small Question to the experts

i have a DRAKE R-4C in near mint conditions.

the serial Number is (what i can read) : HS601

can this be correct or is the number 6HS601

what means the 601 is this receiver no. 601 ore receiver no. 01 from this series of receivers

thanks for yours help

Regards from Germany

Joachim (DL2388RB)

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2714. T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 01:22:59 UTC
From: kd4taw
Topic: 2714 Message: 2714

I would like to trade my Twins set for another radio.They work perfectly and look good.If you live on the east coast or will be passing thru the New Bern NC area and are looking for a set of Twins contact me at danny.boyd@suddenlink.net.

Thanks Danny N4JYD

2715. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 02:14:57 UTC
From: Henry Gilmore
Topic: 2714 Message: 2715

What type of radio are you looking for?

73's WD4OHM
Henry Gilmore

--- On Sat, 12/5/09, kd4taw <danny.boyd@...> wrote:

From: kd4taw <danny.boyd@...>
Subject: [DrakeRadio] T-4XB ,R-4A & MS-4/PS
To: DrakeRadio@yahoogroups.com
Date: Saturday, December 5, 2009, 8:22 PM

I would like to trade my Twins set for another radio.They work perfectly and look good.If you live on the east coast or will be passing thru the New Bern NC area and are looking for a set of Twins contact me at danny.boyd@suddenli nk.net.

Thanks Danny N4JYD

[Non-text portions of this message have been removed]

2716. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 13:39:14 UTC
From: Butch Housman
Topic: 2714 Message: 2716

What r u wanting to trade for ???

Butch KA4MIC

[Non-text portions of this message have been removed]

2717. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 14:36:06 UTC
From: Danny Boyd
Topic: 2714 Message: 2717

Looking for a ts-830s , ft-102 ,swan 500cx , six meter ssb=100 watt version. What do you have?

[Non-text portions of this message have been removed]

2718. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 15:03:46 UTC
From: Henry Gilmore
Topic: 2714 Message: 2718

The rig I was thinking about was my Icom 751.

73's WD4OHM
Henry Gilmore

--- On Sun, 12/6/09, Danny Boyd <danny.boyd@...> wrote:

From: Danny Boyd <danny.boyd@...>
Subject: Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS
To: DrakeRadio@yahoogroups.com
Date: Sunday, December 6, 2009, 9:36 AM

Looking for a ts-830s , ft-102 ,swan 500cx , six meter ssb=100 watt version. What do you have?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2719. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 15:11:49 UTC
From: Henry Gilmore
Topic: 2714 Message: 2719

any pics of your rigs ?

73's WD4OHM
Henry Gilmore

--- On Sun, 12/6/09, Danny Boyd <danny.boyd@...> wrote:

From: Danny Boyd <danny.boyd@suddenlink.net>
Subject: Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS
To: DrakeRadio@yahoogroups.com
Date: Sunday, December 6, 2009, 9:36 AM

Looking for a ts-830s , ft-102 ,swan 500cx , six meter ssb=100 watt version. What do you have?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2720. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 15:39:16 UTC
From: danny.boyd@suddenlink.net
Topic: 2714 Message: 2720

I have a ic-735 and a ic-745 already.The 830 and ft-102 are my first choices.Also pictures are on my qrz page.
Thanks anyway.
---- Henry Gilmore <hvg048@...> wrote:
> The rig I was thinking about was my Icom 751.
>
> 73's WD4OHM
> Henry Gilmore
>
> --- On Sun, 12/6/09, Danny Boyd <danny.boyd@...> wrote:
>
>
> From: Danny Boyd <danny.boyd@suddenlink.net>
> Subject: Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS
> To: DrakeRadio@yahoogroups.com
> Date: Sunday, December 6, 2009, 9:36 AM
>
>
>
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>
>
> Looking for a ts-830s , ft-102 ,swan 500cx , six meter ssb=100 watt version. What do you have?
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

2721. Re: [DrakeRadio] T-4XB ,R-4A & MS-4/PS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-06 15:56:41 UTC
From: Butch Housman
Topic: 2714 Message: 2721

>Looking for a ts-830s , ft-102 ,swan 500cx , six meter ssb=100 watt
> version. What do you >have?
>
> Probably nothing u would want, my "Gud" radio is an old TT Omni V (I like American made stuff) but I have some knwd & Heathkit rigs also, no 830. . The 830s is a great rig but finding a nice one is a little tuff. FYI the 530 S is VERY similar...seems like it's missing the notch filter as best I recall. They're a lot easier to find & cheaper. I recently bought one like new for $250 but it's gone now.

My interest in a set of twins is that I'm a MARS member & nothing I own will wrk in the 3-3.5 MC range. I understand I could add xtals & hit that w/ Drake twins.

If u wud like to put a $$ figure on ur rig I might be interested. U could contact me offlist if u like- cameraman@...

Best regards,
Butch KA4MIC / nnn0zei

[Non-text portions of this message have been removed]

2722. Re: [DrakeRadio] TR7A problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-07 18:49:35 UTC
From: Jim Shorney
Topic: 2686 Message: 2722

On Tue, 1 Dec 2009 14:33:00 -0600, wctaylor wrote:

>Before I tear into my TR7A, has anyone had a problem with the AM carrier
>level being intermittent? The radio works great on SSB but to get any
>power on AM I have to advance the carrier level control and then turn it
>back down. The next time I transmit, it may or may not have power out and
>I have to readjust the control again. I've checked and cleaned the
>control plus I notice the power level verses control position varies
>greatly from band to band.

Bill,

IIRC, carrier reinsertion happens on the 2nd IF/Audio board. That is where you want to look first. I would suggest looking for dirty/oxidized pins in the Molex connectors between the plugin boards and the parent board. This is probably the most common ailment with aging 7-line radios, and is the cause of many strange problems. The cure can be as simple as pulling all the boards and reseating them, but a good cleaning and sparing application of DeOxit doesn't hurt (don't use the spray, get the needle-applicator version or spray on a Q-Tip). When working with the aluminim card cage covers, DON'T overtighten the screws. They can strip easily. They need to be snug, but not lug-nut tight. Also check the various grounding tabs and fingers while you are in there.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2723. Re: TR7A problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-08 15:23:14 UTC
From: floydsense
Topic: 2686 Message: 2723

It's quite normal for a given setting of the Carrier level control to produce different output levels by band (same on AM, CW, RTTY). You'll usually find that the Carrier level setting must be increased each time you jump up a band to achieve the same power output.

73, Floyd - K8AC

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 1 Dec 2009 14:33:00 -0600, wctaylor wrote:
>
> >Before I tear into my TR7A, has anyone had a problem with the AM carrier
> >level being intermittent? The radio works great on SSB but to get any
> >power on AM I have to advance the carrier level control and then turn it
> >back down. The next time I transmit, it may or may not have power out and
> >I have to readjust the control again. I've checked and cleaned the
> >control plus I notice the power level verses control position varies
> >greatly from band to band.
>

2724. PA1HFO PIN diode attenuator for the TR7 - new schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-10 00:16:00 UTC
From: floydsense
Topic: 2724 Message: 2724

This nice piece of work by PA1HFO has been around for a couple of years now (see "The Drake TR7 Transceiver Renewed" at the WB4HFN website). Unfortunately, the several sources of this document all had an extremely hard-to-read version of the schematic diagram. I redrew the diagram today and will shortly post it to the files section here in PDF format. While re-doing it, I discovered an error in the diagram and took the liberty of correcting that, as well as changing the capacitor values to mFd.

It appears that this design allows one to adjust the ALC and pre-driver pots for maximum output on the highest bands, while eliminating the problem of oscillation in the PA brick on one or more of the lower bands when doing that. I'd be interested in hearing from anyone who has already implemented this modification.

73, Floyd - K8AC

2725. For Sale Drake L-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-13 16:44:56 UTC
From: n1sxl56
Topic: 2725 Message: 2725

I have for sale a Drake L-4 amplifier with power supply. Wired for 220v. Price 600 or reasonable offer plus shipping.

Dean, n1sxl email n1sxl56@yahoo.com

2726. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-13 20:13:25 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2726

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2727. VFO Dial Calibration

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-13 23:47:29 UTC
From: Noodle10536
Topic: 2727 Message: 2727

Hi All, Making progress withj my TR-4Cw. I was wondering if there was a good source for the proceedure to adjust the VFO dials and sync them with the VFO? I cleaned mine and re-assembled but I am sure they need adjustment. Thanks, Peter.

2728. Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-13 23:49:45 UTC
From: Noodle10536
Topic: 2728 Message: 2728

Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX

2729. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 12:46:23 UTC
From: floydsense
Topic: 2728 Message: 2729

A small point, perhaps, but you're looking for tube shields, not tube chimneys. The shields usually had nothing to do with cooling, while chimneys are used on some transmitting tubes to help exhaust the hot air outside the cabinet. There are tons of tube shields on eBay right now for very low prices. The best source I found in the past for the knob shaft springs are guys who sell knobs for antique radios (not ham radio gear). Here's one source: http://www.antiqueradioknobs.com/services.html and it appears that he refers to them as "spring steel fasteners". Others just call them steel "clips".

73, Floyd - K8AC

--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
>

2730. Re: [DrakeRadio] Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 14:00:09 UTC
From: Garey Barrell
Topic: 2728 Message: 2730

One other, perhaps more important point ....

V6 and V7 in the TR-4/C do NOT need or want a shield!! The "base" for the shield that is attached to the socket is all the "shield" that is required.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

floydsense wrote:
> A small point, perhaps, but you're looking for tube shields, not tube chimneys. The shields usually had nothing to do with cooling, while chimneys are used on some transmitting tubes to help exhaust the hot air outside the cabinet. There are tons of tube shields on eBay right now for very low prices. The best source I found in the past for the knob shaft springs are guys who sell knobs for antique radios (not ham radio gear). Here's one source: http://www.antiqueradioknobs.com/services.html and it appears that he refers to them as "spring steel fasteners". Others just call them steel "clips".
>
> 73, Floyd - K8AC
>
> --- In DrakeRadio@yahoogroups.com, "Noodle10536"<pureenduro@...> wrote:
>
>> Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
>>
>

2731. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 14:59:32 UTC
From: jimburlile
Topic: 2728 Message: 2731

Hi Peter;

If you are looking for the flat springs that go in the push on knobs, let me know. I have a few of them from NOS knobs that I need to drill and tap for set screws, so I do not need them.

I am in the process of cleaning up an R4A and T4X that I got several years ago from a friend.

Also to the Drake owners here, is it considered ok to have the cases powder coated if the original is really bad? The paint on mine is not in verry good condition and I would like them to look decent.

They were in nonworking condition when I got them, so I had to go thru the TX, RX and redo the AC-3 to get them working well. I had a friend make several contacts on 80 meters and recieved good reports on them.

Thanks for letting me in befor recieving a ticket, I am working on that and should have one soon.

Jim.

--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
>

2732. Drake T-4XC Schematics, confused

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 15:52:55 UTC
From: de_n7ioh
Topic: 2732 Message: 2732

I thought Drake only had two different schematics for the T-4XC but I have three different schematic numbers.

53173200181 which I interpret as May 31, 1973 sn's 20181 and up.

10077626670 which I interpret as Oct. 07, 1976 sn's 26670 and up.

2772300181 This one I am confused about. It's in a Drake original manual. I can only guess for sn's 27732 and above. Any idea what the date code is?

Thanks, Al n7ioh

2733. New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 19:33:53 UTC
From: carlp468
Topic: 2733 Message: 2733

Hello everybody. Introducing myself as a new member and relatively new to the Ham community. Just earned my General license Saturday.

I've got a R4C receiver, T4XC transmitter, MN-2000 antenna tuner, the MS-4(?) power supply/speaker. Also an HR-2510, 10 meter mobile.

My name is Carl McLelland. I live in Sparks, Nevada. Retired deputy sheriff and my other interest is racing a Lotus 61 formula Ford race car.

Hope to mee all of you on the air and stand by for lot's of "Drake related" how do I fix this questions...
73's Carl KF7GJO

2734. New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 19:57:30 UTC
From: Don Crotsenburg
Topic: 2733 Message: 2734

I may have screwed up and sent a first mesage the wrong way first.
Sorry.
Bought a TR4 w ps4. Will be here is a few days.
I have owned L4B, L7, and verious Drake watt meters.
Look forward in getting info from the group as a whole.
tnx
Don, W5KG

2735. Re: [DrakeRadio] New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 20:04:06 UTC
From: Joe
Topic: 2733 Message: 2735

Hi Carl!

Like your system.....good start on your General ticket!

You a member of the SF Region SCCA?

I believe you are the one Don, KQ6FM, was telling me about....glad he got the subscribe address to you.

Welcome aboard...

Any questions you have, fire away.....a lot of very knowledgeable folk here..your answers are but a post away. Feel free to explore our (Now your!!) file database...lots of great information there!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "carlp468" <carlynneracing@...>
Subject: [DrakeRadio] New Member

> Hello everybody. Introducing myself as a new member and relatively new to
> the Ham community. Just earned my General license Saturday.
>
> I've got a R4C receiver, T4XC transmitter, MN-2000 antenna tuner, the
> MS-4(?) power supply/speaker. Also an HR-2510, 10 meter mobile.
>
> My name is Carl McLelland. I live in Sparks, Nevada. Retired deputy
> sheriff and my other interest is racing a Lotus 61 formula Ford race car.
>
> Hope to mee all of you on the air and stand by for lot's of "Drake
> related" how do I fix this questions...
> 73's Carl KF7GJO

2736. New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 19:50:30 UTC
From: w5kg
Topic: 2736 Message: 2736

Hello all. Name hr is Don and I have bought a TR4 w PS4. It is not here yet but look forward in getting it.
I have used drake stuff in the past but never owned one.
I will be restoring it in the next year and will take time in doing so.
At the present I am building a Homebrew Amp, working on an SB230 for a freind, and have a broken astron 50 ps on the bench.
Winter is full.
Again thanks for letting me in and hope to gain much from the group.
Don, W5KG

2737. Re: [DrakeRadio] New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-14 21:33:44 UTC
From: Carl McLelland
Topic: 2733 Message: 2737

Hi Joe,
I don't know a Don; I don't think anyway.. Tim O'Shea (KY7Y) told me about the group, and mentioned you. Here's a snap of the shack..

I went out this morning and read and re-read the manual for the T4XC and then 'lit it off' for the first time. Got the bias set for the power supply but couldn't seem to get any response out of tuning the transmitter. Kinda figured it may have 'died of old age'. Before totally giving up decided to try (for the first time) tuning the receiver through the transmitter (is that called "duplexing")? Anyway, the system seemed to 'receive' better that way than simply turning on the receiver. Before powering everything down I tried one more time..... Don't know what I might have 'tweeked' in the interim, but the dummy load began to glow and I peaked the load and dipped the plate (following the book instructions of not loading it for more than 5 seconds in 'tune mode' without a 30 second rest) and had it showing 55 watts on the VSWR. Don't know if that's good or bad; BUT it's better than yesterday! I need to change the plug on that desk mike (robbing the plug off my Plantronix aviation headset) and then I'll see what happens..... (I've got a 10 meter and 20 meter dipole in the attic). (I've gotten all the way to southwest Reno {from northeast Sparks} with that HR2510 on my 10m dipole! REAL DXing, Hey!!)

I don't race with SCCA. I don't care for their attitudes regarding vintage racing and vintage racers. I race with HSR-West (Historic Sportscar Racing-West) and HMSA (Historic Motor Sports Assn). Been in the sport for ten years now. Here's a quick snap of the Lotus from California Speedway a couple years ago:

Give me a note offnet if you don't want to bore everybody else (carlynneracing@...) , or 626-2788 until I can get the "wireless" up-n-running..
Carl KF7GJO

----- Original Message -----
Hi Carl!

Like your system.....good start on your General ticket!

You a member of the SF Region SCCA?

I believe you are the one Don, KQ6FM, was telling me about....glad he got
the subscribe address to you.

Welcome aboard...

Any questions you have, fire away.....a lot of very knowledgeable folk
here..your answers are but a post away. Feel free to explore our (Now
your!!) file database...lots of great information there!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

2738. Re: [DrakeRadio] New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 01:29:30 UTC
From: Joe
Topic: 2733 Message: 2738

Hi Carl...Sorry...Yes..I know it was Tim...I asked him to invite you when I heard you had Drakes. Great pieces of equipment....I was brain dead when I sent you the note.

Pictures cannot be attached here.....they would have to be sent to the images section, however, race cars are not really on topic for the group. As I am an ex-SCCA member and racer, I would love to see it, so perhaps a private email to me, WA6RKN@... would be apropos. (Hint Hint!!)

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Carl McLelland" <carlynneracing@...>
Subject: Re: [DrakeRadio] New Member

> Hi Joe,
> I don't know a Don; I don't think anyway.. Tim O'Shea (KY7Y) told me about
> the group, and mentioned you. Here's a snap of the shack..

2739. Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 01:36:47 UTC
From: Carl McLelland
Topic: 2739 Message: 2739

Hi Guys N Gals,
I promised you lots of questions... you were forewarned.

My Drake R4C and T4XC were a gift from a friend (K6UKZ) to entice me into becomeing a Ham. These were his radio's decades ago. The transmitter didn't come with an original mike but my friend gave me an ElectroVoice model 638 desk mike to set up. I also purchased a CW key to practice and learn code. This morning for the first time I went through the manual and with my dummy load insured that the transmitter was aligned and worked. My dummy load 'shined brightly' and the VSWR was showing 55 watts output in "TUNE" mode. OK, those are the givens.....

The microphone jack on the back of the T4XC is a three wire jack (tip, ring and shield/gorund). I 'salvaged' a three wire plug from an old aviation headset. The plug on the EV mike had the red and clear wires connected to the two pins on its plug and the black wire was soldered to the shield. The red wire read '1' on my ohmeter and '0' when the mike was keyed. I connected the red wire to the tip of the plug, clear wire to the ring and shield to the ground. I plugged it into the jack, powered up the radio and..... Lower sideband, dummy load, 40 meters: transmitter keyed up showing 60 watts on VSWR without keying the mike. Keying the mike stopped the transmission; dummy load dark and '0' on VSWR.

Before I go any further, is this simply a case of reversing the red and clear wires, or do I have other issues?

Next, I wired up a plug for the CW jack. Now this seems easy enough for a Caveman to do. Plugged it in, turned on the T4XC and R4C. After they warmed up, switched the T4XC to CW mode, still on the dummy load, and closed the key. The VSWR needle jumped then dropped back to zero. It did not remain keyed with the key closed, the needle remained at zero and no dummy load light. Continuing to tap the key returned the same result; momentary jump on the VSWR needle then back to zero.

Decided I was "2 for 2", and before I scattered my power supply and/or transmitter finals to the four corners of the globe, shut everything down and waived the white flag.

Now before suggesting I connect the forscene to the caloritis, cross jump the J-79 to the N3 in the Flux Capacitor, recognize I'm barely able to function past "ON/OFF". Ya gotta speak slowly and with small one syllabul words. (As I constantly have to remind my cousin {WA6QBU}, "speak VW, not Porsche"). Can any of you offer any suggestions? The manuals I have for each piece of gear are in English except the technical stuff which was written in Swahili by a Geek on a three day bender.

If you offer a suggestion I'll try it. If it's beyond my ability I won't try it. If this were an engine I'd dive right in because I'd know when and where to stop and who to contact if I had problems. Unfortunately it's not an engine, it's a radio, and takes me back to the "ON/OFF" level of knowledge.....

Thanks in advance...
Carl KF7GJO

[Non-text portions of this message have been removed]

2740. Re: [DrakeRadio] Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 02:09:52 UTC
From: Butch Housman
Topic: 2739 Message: 2740

How long has it been since this rig was last used ?

As I understand what ur saying, when u key it in CW u only get a momentary output of 60 watts & then it goes to zero ???

It should put out 150 w or more.

R u tuning it as per instructions in the owner's manual or just for max output on a seperate meter ?

Can u hear the relay clicking ?

Have u ever tuned a tube rig before ?

Given the choice between brown or black shoes.....what's ur pick ????????????

Butch

[Non-text portions of this message have been removed]

2741. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 02:35:42 UTC
From: Noodle10536
Topic: 2728 Message: 2741

Jim, If you had two of the flat springs to spare that would be outstanding. There may be a way to email through Yahoo but I am not familiar with the process. Please email me at my call sign (KC2RBX) at ARRL.Net. Thanks very much, Peter.

--- In DrakeRadio@yahoogroups.com, "jimburlile" <jimburlile@...> wrote:
>
> Hi Peter;
>
> If you are looking for the flat springs that go in the push on knobs, let me know. I have a few of them from NOS knobs that I need to drill and tap for set screws, so I do not need them.
>
> I am in the process of cleaning up an R4A and T4X that I got several years ago from a friend.
>
> Also to the Drake owners here, is it considered ok to have the cases powder coated if the original is really bad? The paint on mine is not in verry good condition and I would like them to look decent.
>
> They were in nonworking condition when I got them, so I had to go thru the TX, RX and redo the AC-3 to get them working well. I had a friend make several contacts on 80 meters and recieved good reports on them.
>
> Thanks for letting me in befor recieving a ticket, I am working on that and should have one soon.
>
> Jim.
>
>
>
> --- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@> wrote:
> >
> > Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
> >
>

2742. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 02:45:08 UTC
From: Noodle10536
Topic: 2728 Message: 2742

Floyd & Garey, Thanks for the clarification on the chimney shield terminology correction. I guess either way it is moot with respect to the location where I had intended to put them. Strange that the V6 and V7 tubes have bases that afford the shield attachments yet non are supposed to be used there. I have been making what I believe to be good progress on the radio though. It won't be long before I perform a smoke test for leaks. It sure looks a lot cleaner and neater inside it and I was able to locate some problems or potential problems. In some instances, changes have been made ti=o the radio that I am trying to return to its stock form. I think I will retain the AM filter mod but will make a better bracket for it to attach to. Perhaps this weekend will afford me some time to finish up and give it a test drive. Thanks again for everyones help, Peter. KC2RBX

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> One other, perhaps more important point ....
>
> V6 and V7 in the TR-4/C do NOT need or want a shield!! The "base" for
> the shield that is attached to the socket is all the "shield" that is
> required.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> floydsense wrote:
> > A small point, perhaps, but you're looking for tube shields, not tube chimneys. The shields usually had nothing to do with cooling, while chimneys are used on some transmitting tubes to help exhaust the hot air outside the cabinet. There are tons of tube shields on eBay right now for very low prices. The best source I found in the past for the knob shaft springs are guys who sell knobs for antique radios (not ham radio gear). Here's one source: http://www.antiqueradioknobs.com/services.html and it appears that he refers to them as "spring steel fasteners". Others just call them steel "clips".
> >
> > 73, Floyd - K8AC
> >
> > --- In DrakeRadio@yahoogroups.com, "Noodle10536"<pureenduro@> wrote:
> >
> >> Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
> >>
> >
>

2743. Re: [DrakeRadio] Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 04:31:31 UTC
From: Carl McLelland
Topic: 2739 Message: 2743

Hi Butch,
How long has it been since this rig was last used ?
It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.

As I understand what ur saying, when u key it in CW u only get a momentary output of 60 watts & then it goes to zero ???
On CW, the needle doesn't even get past 10 watts. Just a momentary 'jump' then drops to zero, and nothing to the dummy load. In TUNE mode this morning was hitting 55 watts, and with the 'errant microphone' was showing around 60 to 60+ watts.

R u tuning it as per instructions in the owner's manual or just for max output on a seperate meter ?
I tuned it according to the owners manual, but that's not to say I didn't do something wrong. This was the first time I ever did it and didn't have anybody standing behind me saying "Oh Oh..... You shouldn't a done that......!" Since I don't really understand what I'm doing tuning it, I've tried to follow very closely to what the book says.

Can u hear the relay clicking ?
I don't recall if there was a relay clicking or not.

Have u ever tuned a tube rig before ?
Nope. And I've never flown a B2 bomber, either. (Flown a B-52 though.. Flies about the same as a Freightliner tractor/trailer with 18 flat tires).

Given the choice between brown or black shoes.....what's ur pick?????????????
Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.

Carl (Tried to be as analytical as I could, Butch; then met 'humor with humor'..... (Xcept I really have flown B52's..)

----- Original Message -----
From: Butch Housman
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 14, 2009 6:09 PM
Subject: Re: [DrakeRadio] Microphone Woes

[Non-text portions of this message have been removed]

2744. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 06:02:10 UTC
From: jimburlile
Topic: 2728 Message: 2744

Hi Peter;

I sent an email to your Arrl address so watch for it. I have 3 of the springs that are surplus to my needs.

I hope they will work for you. The knobs came from John Kriner a few years ago and are NOS Drake knobs, so they should be the right springs.

Jim Burlile.

--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> Floyd & Garey, Thanks for the clarification on the chimney shield terminology correction. I guess either way it is moot with respect to the location where I had intended to put them. Strange that the V6 and V7 tubes have bases that afford the shield attachments yet non are supposed to be used there. I have been making what I believe to be good progress on the radio though. It won't be long before I perform a smoke test for leaks. It sure looks a lot cleaner and neater inside it and I was able to locate some problems or potential problems. In some instances, changes have been made ti=o the radio that I am trying to return to its stock form. I think I will retain the AM filter mod but will make a better bracket for it to attach to. Perhaps this weekend will afford me some time to finish up and give it a test drive. Thanks again for everyones help, Peter. KC2RBX
> >
> >
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> > >
> > > One other, perhaps more important point ....
> > >
> > > V6 and V7 in the TR-4/C do NOT need or want a shield!! The "base" for
> > > the shield that is attached to the socket is all the "shield" that is
> > > required.
> > >
> > > 73, Garey - K4OAH
> > > Glen Allen, VA
> > >
> > > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > > <www.k4oah.com>
> > >
> > >
> > > floydsense wrote:
> > > > A small point, perhaps, but you're looking for tube shields, not tube chimneys. The shields usually had nothing to do with cooling, while chimneys are used on some transmitting tubes to help exhaust the hot air outside the cabinet. There are tons of tube shields on eBay right now for very low prices. The best source I found in the past for the knob shaft springs are guys who sell knobs for antique radios (not ham radio gear). Here's one source: http://www.antiqueradioknobs.com/services.html and it appears that he refers

to them as "spring steel fasteners". Others just call them steel "clips".
> > >
> > > 73, Floyd - K8AC
> > >
> > > --- In DrakeRadio@yahoogroups.com, "Noodle10536"<pureenduro@> wrote:
> > >
> > >> Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX
> > >>
> > >
> >
>

2745. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 15:01:05 UTC
From: captcurt2000
Topic: 2739 Message: 2745

Hi Carl. THe CW issue sounds like you need to turn up the vox delay. The Vox delay is active on CW as well as the voice modes.

If it is all the way down, it does exactly as you describe. You probably need to get the wiring diagram for the mike and the t4 and make sure they are wired the same. Some mikes do odd things with the switches since they are really set-up for audio and not nec PTT with a radio.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Hi Butch,
> How long has it been since this rig was last used ?
> It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.
>
> As I understand what ur saying, when u key it in CW u only get a momentary
> output of 60 watts & then it goes to zero ???
> On CW, the needle doesn't even get past 10 watts. Just a momentary 'jump' then drops to zero, and nothing to the dummy load. In TUNE mode this morning was hitting 55 watts, and with the 'errant microphone' was showing around 60 to 60+ watts.
>
> R u tuning it as per instructions in the owner's manual or just for max
> output on a seperate meter ?
> I tuned it according to the owners manual, but that's not to say I didn't do something wrong. This was the first time I ever did it and didn't have anybody standing behind me saying "Oh Oh..... You shouldn't a done that......!" Since I don't really understand what I'm doing tuning it, I've tried to follow very closely to what the book says.
>
> Can u hear the relay clicking ?
> I don't recall if there was a relay clicking or not.
>
> Have u ever tuned a tube rig before ?
> Nope. And I've never flown a B2 bomber, either. (Flown a B-52 though.. Flies about the same as a Freightliner tractor/trailer with 18 flat tires).
>
> Given the choice between brown or black shoes.......what's ur pick?????????????
> Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.
>
> Carl (Tried to be as analytical as I could, Butch; then met 'humor with humor'..... (Xcept I really have flown B52's..)
>
>

>
> ----- Original Message -----
> From: Butch Housman
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, December 14, 2009 6:09 PM
> Subject: Re: [DrakeRadio] Microphone Woes
>
> [Non-text portions of this message have been removed]
>

2746. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 16:00:01 UTC
From: Carl McLelland
Topic: 2739 Message: 2746

Thanks Kurt, will give that a try when I head back out to the shop.

As if this isn't confusing enough, besides the EV desk mike that I want to use for obvious reasons, I've also got a Shure hand mike (4 wire, no plug on it) and an Astatic mike with a 2 pin plug. I've ran ohm checks on all three mikes now looking for the pattern to figure out how the wiring is different and where its similar. The one 'constant' is that all three are different.

Just so I'm on the right page regarding the VOX thing, when using VOX you still have to key the mike, correct? The VOX (with an 'open mike') stops transmitting when nothing is being said, hence nothing to transmit; and when it senses your voice starts transmitting again. At this point I don't care about VOX, I just want to make it operate, then I'll start "polishing the chrome".

I was really blown away when I plugged in the CW key and it wouldn't work correctly.
Carl

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 15, 2009 7:01 AM
Subject: [DrakeRadio] Re: Microphone Woes

Hi Carl. THe CW issue sounds like you need to turn up the vox delay. The Vox delay is active on CW as well as the voice modes.

If it is all the way down, it does exactly as you describe. You probably need to get the wiring diagram for the mike and the t4 and make sure they are wired the same. Some mikes do odd things with the switches since they are really set-up for audio and not nec PTT with a radio.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Hi Butch,
> How long has it been since this rig was last used ?
> It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.
>
> As I understand what ur saying, when u key it in CW u only get a momentary
> output of 60 watts & then it goes to zero ???
> On CW, the needle doesn't even get past 10 watts. Just a momentary 'jump' then drops to zero, and nothing to the dummy load. In TUNE mode this morning was hitting 55 watts, and with the 'errant microphone' was showing around 60 to 60+ watts.
>

> R u tuning it as per instructions in the owner's manual or just for max
> output on a seperate meter ?
> I tuned it according to the owners manual, but that's not to say I didn't do something wrong. This was the first time I ever did it and didn't have anybody standing behind me saying "Oh Oh..... You shouldn't a done that......!" Since I don't really understand what I'm doing tuning it, I've tried to follow very closely to what the book says.
>
> Can u hear the relay clicking ?
> I don't recall if there was a relay clicking or not.
>
> Have u ever tuned a tube rig before ?
> Nope. And I've never flown a B2 bomber, either. (Flown a B-52 though.. Flies about the same as a Freightliner tractor/trailer with 18 flat tires).
>
> Given the choice between brown or black shoes.......what's ur pick?????????????
> Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.
>
> Carl (Tried to be as analytical as I could, Butch; then met 'humor with humor'.....
(Xcept I really have flown B52's..)
>

[Non-text portions of this message have been removed]

2747. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 17:32:21 UTC
From: captcurt2000
Topic: 2739 Message: 2747

Is this what u have??

http://www.coutant.org/ev638/index.html

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Hi Guys N Gals,
> I promised you lots of questions... you were forewarned.
>
> My Drake R4C and T4XC were a gift from a friend (K6UKZ) to entice me into becomeing a Ham. These were his radio's decades ago. The transmitter didn't come with an original mike but my friend gave me an ElectroVoice model 638 desk mike to set up. I also purchased a CW key to practice and learn code. This morning for the first time I went through the manual and with my dummy load insured that the transmitter was aligned and worked. My dummy load 'shined brightly' and the VSWR was showing 55 watts output in "TUNE" mode. OK, those are the givens.....
>
> The microphone jack on the back of the T4XC is a three wire jack (tip, ring and shield/gorund). I 'salvaged' a three wire plug from an old aviation headset. The plug on the EV mike had the red and clear wires connected to the two pins on its plug and the black wire was soldered to the shield. The red wire read '1' on my ohmeter and '0' when the mike was keyed. I connected the red wire to the tip of the plug, clear wire to the ring and shield to the ground. I plugged it into the jack, powered up the radio and..... Lower sideband, dummy load, 40 meters: transmitter keyed up showing 60 watts on VSWR without keying the mike. Keying the mike stopped the transmission; dummy load dark and '0' on VSWR.
>
> Before I go any further, is this simply a case of reversing the red and clear wires, or do I have other issues?
>
> Next, I wired up a plug for the CW jack. Now this seems easy enough for a Caveman to do. Plugged it in, turned on the T4XC and R4C. After they warmed up, switched the T4XC to CW mode, still on the dummy load, and closed the key. The VSWR needle jumped then dropped back to zero. It did not remain keyed with the key closed, the needle remained at zero and no dummy load light. Continuing to tap the key returned the same result; momentary jump on the VSWR needle then back to zero.
>
> Decided I was "2 for 2", and before I scattered my power supply and/or transmitter finals to the four corners of the globe, shut everything down and waived the white flag.
>
> Now before suggesting I connect the forscene to the caloritis, cross jump the J-79 to the N3 in the Flux Capacitor, recognize I'm barely able to function past "ON/OFF". Ya gotta speak slowly and with small one syllabul words. (As I constantly have to remind my cousin {WA6QBU}, "speak VW, not Porsche"). Can any of you offer any suggestions? The manuals I have for each piece of gear are in English except the technical stuff which was written in Swahili by a Geek on a three day bender.

>
> If you offer a suggestion I'll try it. If it's beyond my ability I won't try it. If this were an engine I'd dive right in because I'd know when and where to stop and who to contact if I had problems. Unfortunately it's not an engine, it's a radio, and takes me back to the "ON/OFF" level of knowledge.....
>
> Thanks in advance...
> Carl KF7GJO
>
> [Non-text portions of this message have been removed]
>

2748. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 17:29:44 UTC
From: captcurt2000
Topic: 2739 Message: 2748

Also..is there an on off switch on the microphone besides the main PTT switch?

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Hi Guys N Gals,
> I promised you lots of questions... you were forewarned.
>
> My Drake R4C and T4XC were a gift from a friend (K6UKZ) to entice me into becomeing a Ham. These were his radio's decades ago. The transmitter didn't come with an original mike but my friend gave me an ElectroVoice model 638 desk mike to set up. I also purchased a CW key to practice and learn code. This morning for the first time I went through the manual and with my dummy load insured that the transmitter was aligned and worked. My dummy load 'shined brightly' and the VSWR was showing 55 watts output in "TUNE" mode. OK, those are the givens.....
>
> The microphone jack on the back of the T4XC is a three wire jack (tip, ring and shield/gorund). I 'salvaged' a three wire plug from an old aviation headset. The plug on the EV mike had the red and clear wires connected to the two pins on its plug and the black wire was soldered to the shield. The red wire read '1' on my ohmeter and '0' when the mike was keyed. I connected the red wire to the tip of the plug, clear wire to the ring and shield to the ground. I plugged it into the jack, powered up the radio and..... Lower sideband, dummy load, 40 meters: transmitter keyed up showing 60 watts on VSWR without keying the mike. Keying the mike stopped the transmission; dummy load dark and '0' on VSWR.
>
> Before I go any further, is this simply a case of reversing the red and clear wires, or do I have other issues?
>
> Next, I wired up a plug for the CW jack. Now this seems easy enough for a Caveman to do. Plugged it in, turned on the T4XC and R4C. After they warmed up, switched the T4XC to CW mode, still on the dummy load, and closed the key. The VSWR needle jumped then dropped back to zero. It did not remain keyed with the key closed, the needle remained at zero and no dummy load light. Continuing to tap the key returned the same result; momentary jump on the VSWR needle then back to zero.
>
> Decided I was "2 for 2", and before I scattered my power supply and/or transmitter finals to the four corners of the globe, shut everything down and waived the white flag.
>
> Now before suggesting I connect the forscene to the caloritis, cross jump the J-79 to the N3 in the Flux Capacitor, recognize I'm barely able to function past "ON/OFF". Ya gotta speak slowly and with small one syllabul words. (As I constantly have to remind my cousin {WA6QBU}, "speak VW, not Porsche"). Can any of you offer any suggestions? The manuals I have for each piece of gear are in English except the technical stuff which was written in Swahili by a Geek on a three day bender.
>
> If you offer a suggestion I'll try it. If it's beyond my ability I won't try it. If this

were an engine I'd dive right in because I'd know when and where to stop and who to contact if I had problems. Unfortunately it's not an engine, it's a radio, and takes me back to the "ON/OFF" level of knowledge.....
>
> Thanks in advance...
> Carl KF7GJO
>
> [Non-text portions of this message have been removed]
>

2749. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 17:26:22 UTC
From: captcurt2000
Topic: 2739 Message: 2749

In CW, the VOX circuit controls the TR switching. Now, I'm bsing this on the t-4x, but recall that it is the same. It works this way because the sidetone for hearing your CW work all works thru the Vox/Mic audio section. So yes, you need the vox setting to hold in the relay.

For the mics. Here is the poop. Mostly: one side of the switch and one side of the mic element share a ground line or shield. then the mic element runs out one line and the PTT switch out the third.

That is the setup that occurs inside the Tx. Now, some microphones are set up that way and some bring all the wires out to the cable seperately--in which case you just connect them together inside the plug anyway.

Try this--push the PTT switch on the mic and check which wire shows zero resistance to the shield. this is the PTT Switch. it should show infinite res when you release the switch. the other wire should show a high resistance but not open when measured to the shield--this is the mic element.

There are many variations on mic wiring so search for a diagram for your mic if this is not how it is set up.

EV was known for using 4 pin connectors on mics so by changing the pins you connect to, you could change the impedance of the mic output.

But if the mic cable has two wires plus a shield, the above should work.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Thanks Kurt, will give that a try when I head back out to the shop.
>
> As if this isn't confusing enough, besides the EV desk mike that I want to use for obvious reasons, I've also got a Shure hand mike (4 wire, no plug on it) and an Astatic mike with a 2 pin plug. I've ran ohm checks on all three mikes now looking for the pattern to figure out how the wiring is different and where its similar. The one 'constant' is that all three are different.
>
> Just so I'm on the right page regarding the VOX thing, when using VOX you still have to key the mike, correct? The VOX (with an 'open mike') stops transmitting when nothing is being said, hence nothing to transmit; and when it senses your voice starts transmitting again. At this point I don't care about VOX, I just want to make it operate, then I'll start "polishing the chrome".
>
> I was really blown away when I plugged in the CW key and it wouldn't work correctly.
> Carl

>
> ----- Original Message -----
> From: captcurt2000
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, December 15, 2009 7:01 AM
> Subject: [DrakeRadio] Re: Microphone Woes
>
>
>
> Hi Carl. THe CW issue sounds like you need to turn up the vox delay. The Vox delay is active on CW as well as the voice modes.
>
> If it is all the way down, it does exactly as you describe. You probably need to get the wiring diagram for the mike and the t4 and make sure they are wired the same. Some mikes do odd things with the switches since they are really set-up for audio and not nec PTT with a radio.
>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@> wrote:
> >
> > Hi Butch,
> > How long has it been since this rig was last used ?
> > It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.
> >
> > As I understand what ur saying, when u key it in CW u only get a momentary
> > output of 60 watts & then it goes to zero ???
> > On CW, the needle doesn't even get past 10 watts. Just a momentary 'jump' then drops to zero, and nothing to the dummy load. In TUNE mode this morning was hitting 55 watts, and with the 'errant microphone' was showing around 60 to 60+ watts.
> >
> > R u tuning it as per instructions in the owner's manual or just for max
> > output on a seperate meter ?
> > I tuned it according to the owners manual, but that's not to say I didn't do something wrong. This was the first time I ever did it and didn't have anybody standing behind me saying "Oh Oh..... You shouldn't a done that......!" Since I don't really understand what I'm doing tuning it, I've tried to follow very closely to what the book says.
> >
> > Can u hear the relay clicking ?
> > I don't recall if there was a relay clicking or not.
> >
> > Have u ever tuned a tube rig before ?
> > Nope. And I've never flown a B2 bomber, either. (Flown a B-52 though.. Flies about the same as a Freightliner tractor/trailer with 18 flat tires).
> >
> > Given the choice between brown or black shoes.......what's ur pick????????????
> > Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.

> >
> > Carl (Tried to be as analytical as I could, Butch; then met 'humor with humor'.....
(Xcept I really have flown B52's..)
> >
>
>
>
> [Non-text portions of this message have been removed]
>

2750. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 18:02:41 UTC
From: Garey Barrell
Topic: 2739 Message: 2750

Carl -

It is NOT necessary to do anything with the microphone for CW operation. In fact in doesn't even need to be plugged in.

Turn the ANTI-VOX full CCW, the VOX GAIN full CCW, and the CW DELAY full CW. Set the front panel GAIN control to about 10 o'clock. Close the key and increase (CW) the VOX control until the relay pulls in and then immediately dip the PLATE control (adjust for minimum plate current). Then release the KEY, and turn the CW DELAY control CCW until the relay drops out. Close the KEY momentarily, and the relay should pull in, hold for a second or so, and then drop out. Adjusting the CW DELAY control adjusts how long the relay stays closed AFTER the KEY is opened.

For SSB operation, the SSB DELAY control sets how long the VOX stays pulled in after you stop talking.

If you switch to the TUNE mode, no mic connected, the relay should pull in and the output should show full power (130W OUTPUT or so) at about 10 o'clock on the GAIN control. Switching the FUNCTION switch back to SSB should cause the relay to drop out after "some" delay. This delay is adjusted with the SSB DELAY control, and is separate from the CW delay setting. If this works ok, but talking into your mic with the FUNCTION switch set to SSB does NOT produce output, then there may be a problem with the mic or it's internal or external wiring. Many microphones open the "audio" line internally until the PTT switch on the mic is closed, and this must be bypassed for this mic to work on VOX.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Carl McLelland wrote:
> Thanks Kurt, will give that a try when I head back out to the shop.
>
> As if this isn't confusing enough, besides the EV desk mike that I want to use for obvious reasons, I've also got a Shure hand mike (4 wire, no plug on it) and an Astatic mike with a 2 pin plug. I've ran ohm checks on all three mikes now looking for the pattern to figure out how the wiring is different and where its similar. The one 'constant' is that all three are different.
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> Just so I'm on the right page regarding the VOX thing, when using VOX you still have to key the mike, correct? The VOX (with an 'open mike') stops transmitting when nothing is being said, hence nothing to transmit; and when it senses your voice starts transmitting again. At this point I don't care about VOX, I just want to make it operate, then I'll

start "polishing the chrome".
>
> I was really blown away when I plugged in the CW key and it wouldn't work correctly.
> Carl
>
> ----- Original Message -----
> From: captcurt2000
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, December 15, 2009 7:01 AM
> Subject: [DrakeRadio] Re: Microphone Woes
>
>
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> Hi Carl. THe CW issue sounds like you need to turn up the vox delay. The Vox delay is active on CW as well as the voice modes.
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> If it is all the way down, it does exactly as you describe. You probably need to get the wiring diagram for the mike and the t4 and make sure they are wired the same. Some mikes do odd things with the switches since they are really set-up for audio and not nec PTT with a radio.
>
> Curt
> KU8L
>
>
>

2751. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 18:19:37 UTC
From: Carl McLelland
Topic: 2739 Message: 2751

Curt,
Mucho Gracias, Danke Shoen, and thank you very much for the previous suggestion on the CW key. Changing the VOX gain did, in fact, bring that to life. (Don't know anything in code except "SOS", but CW seems to work on my dummy load now).

The other email is correct regarding the mike... That's what I've got. There are four wires in the cable. Black, Red, Clear (transparent insulation) and the shield. The black and shield are soldered together at the mike switch relay, so they are in effect one wire. That leaves the clear and red wire, and with a three wire plug only two possible ways to wire it. The clear wire is the one that goes to the mike. I believe I wired the red wire to the tip and the clear wire to the ring on the plug. I'll reverse them when I get back out to the shop, and let you know what happens...

Thanks very much for your assistance!!
Carl
----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 15, 2009 9:26 AM
Subject: [DrakeRadio] Re: Microphone Woes

In CW, the VOX circuit controls the TR switching. Now, I'm bsing this on the t-4x, but recall that it is the same. It works this way because the sidetone for hearing your CW work all works thru the Vox/Mic audio section. So yes, you need the vox setting to hold in the relay.

For the mics. Here is the poop. Mostly: one side of the switch and one side of the mic element share a ground line or shield. then the mic element runs out one line and the PTT switch out the third.

That is the setup that occurs inside the Tx. Now, some microphones are set up that way and some bring all the wires out to the cable seperately--in which case you just connect them together inside the plug anyway.

Try this--push the PTT switch on the mic and check which wire shows zero resistance to the shield. this is the PTT Switch. it should show infinite res when you release the switch. the other wire should show a high resistance but not open when measured to the shield--this is the mic element.

There are many variations on mic wiring so search for a diagram for your mic if this is not how it is set up.

EV was known for using 4 pin connectors on mics so by changing the pins you connect to, you could change the impedance of the mic output.

But if the mic cable has two wires plus a shield, the above should work.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Thanks Kurt, will give that a try when I head back out to the shop.
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> As if this isn't confusing enough, besides the EV desk mike that I want to use for obvious reasons, I've also got a Shure hand mike (4 wire, no plug on it) and an Astatic mike with a 2 pin plug. I've ran ohm checks on all three mikes now looking for the pattern to figure out how the wiring is different and where its similar. The one 'constant' is that all three are different.
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> Subject: [DrakeRadio] Re: Microphone Woes
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> If it is all the way down, it does exactly as you describe. You probably need to get the wiring diagram for the mike and the t4 and make sure they are wired the same. Some mikes do odd things with the switches since they are really set-up for audio and not nec PTT with a radio.
>
> Curt
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> --- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@> wrote:
> >
> > Hi Butch,
> > How long has it been since this rig was last used ?
> > It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.
> >
> > As I understand what ur saying, when u key it in CW u only get a momentary
> > output of 60 watts & then it goes to zero ???
> > On CW, the needle doesn't even get past 10 watts. Just a momentary 'jump' then drops to

zero, and nothing to the dummy load. In TUNE mode this morning was hitting 55 watts, and with the 'errant microphone' was showing around 60 to 60+ watts.
> >
> > R u tuning it as per instructions in the owner's manual or just for max
> > output on a seperate meter ?
> > I tuned it according to the owners manual, but that's not to say I didn't do something wrong. This was the first time I ever did it and didn't have anybody standing behind me saying "Oh Oh..... You shouldn't a done that......!" Since I don't really understand what I'm doing tuning it, I've tried to follow very closely to what the book says.
> >
> > Can u hear the relay clicking ?
> > I don't recall if there was a relay clicking or not.
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> > Have u ever tuned a tube rig before ?
> > Nope. And I've never flown a B2 bomber, either. (Flown a B-52 though.. Flies about the same as a Freightliner tractor/trailer with 18 flat tires).
> >
> > Given the choice between brown or black shoes.......what's ur pick????????????
> > Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.
> >
> > Carl (Tried to be as analytical as I could, Butch; then met 'humor with humor'..... (Xcept I really have flown B52's..)
> >
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

2752. Re: New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 20:26:12 UTC
From: John
Topic: 2733 Message: 2752

Hi Carl.

Welcome to the group. And congratulatins on the new ticket.

You will find all that you would ever need to know about Drake Radios from the collective wisdom represented within these posts. It's a great bunch of fellows.

Just one observation...

Operating from "Sparks, Nevada" - you must either be in the best possible place - or the worst possible place from which to operate ham radio. I love the name.

73.

John
WB0RXL

--- In DrakeRadio@yahoogroups.com, "carlp468" <carlynneracing@...> wrote:
>
> Hello everybody. Introducing myself as a new member and relatively new to the Ham community. Just earned my General license Saturday.
>
> I've got a R4C receiver, T4XC transmitter, MN-2000 antenna tuner, the MS-4(?) power supply/speaker. Also an HR-2510, 10 meter mobile.
>
> My name is Carl McLelland. I live in Sparks, Nevada. Retired deputy sheriff and my other interest is racing a Lotus 61 formula Ford race car.
>
> Hope to mee all of you on the air and stand by for lot's of "Drake related" how do I fix this questions...
> 73's Carl KF7GJO
>

2753. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 20:15:36 UTC
From: captcurt2000
Topic: 2739 Message: 2753

OK..you can definitely check that wiring scheme using the resistance checks I mentioned. It may be that they are reversed like you indicate since you said that the tx turned on when you plugged it in..

Garey has the complete info on the delay pots..sounds like Drake separated the CW and SSB delay and sensitivity (Vox Gain) in your version. It saves having to re-adjust when changing modes. Depending on the speed you send CW, the delay will need to change so the tx doesn't drop out every word or every character. At 20WPM, delay can be pretty short. Sounds like you will spend some time getting up to speed on CW--loads of fun.

I would "guess" that the clear wire is the mike element, but would still check it to be sure.

Make certain you have identified the barrel, ring, and tip connections correctly. Sounds trivial but I have seen some that are hard to tell ring from tip at the rear connection end.

As Garey also mentioned, you need a little bit of vox gain--CW gain in your case, to get the key to actually engage the relay..sounds like you have enough already since you said it tripped the relay but didn't stay engaged.

Let us know how it goes..look forward to hearing them on the air.

BTW..used my twins this weekend for the SKCC (Straight Key Century Club) 24 hour weekend sprint. CW Only I worked only 20 and 40 Mtrs. 106 contacts with other members..41 states/countries/provinces using a single wire 40M windom.

Curt

Have fun.

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Curt,
> Mucho Gracias, Danke Shoen, and thank you very much for the previous suggestion on the CW key. Changing the VOX gain did, in fact, bring that to life. (Don't know anything in code except "SOS", but CW seems to work on my dummy load now).

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> Carl
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> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, December 15, 2009 9:26 AM
> Subject: [DrakeRadio] Re: Microphone Woes
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> There are many variations on mic wiring so search for a diagram for your mic if this is not how it is set up.
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> EV was known for using 4 pin connectors on mics so by changing the pins you connect to, you could change the impedance of the mic output.
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> > Curt
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> > > It was last used about 20 years ago. The owner left it at his parents when he went to a Pentagon assignment and bought a new rig there.
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> > > Have u ever tuned a tube rig before ?
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> > > Given the choice between brown or black shoes.....what's ur pick????????????
> > > Black Corcoran Paratrooper jump boots, SIZE 12ee. Best to get them at the 82nd Airborne commisary at Bragg; more expensive at the Smokebomb Hill PX.
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> >
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> >
> > [Non-text portions of this message have been removed]
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>
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>

2754. Re: [DrakeRadio] Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-15 21:58:43 UTC
From: Butch Housman
Topic: 2739 Message: 2754

Sooooo.....

By now u should have plenty of things to check out, hope u can solve it from that.

The reason I asked abt the relay noise is that, w/ age, the relays sometimes need cleaning. If a dirty relay turns out to be the problem u will have to hunt that out & work a piece of paper (a small strip cleanly cut from a dollar bill wrks gud) soaked in cleaner between the contacts. I prefer non lubricating cleaner, DeOxit is best. U may also have a tube issue.

Others have already discussed mics, a dirty switch or bad cord there can also mess u up. It shouldn't enter into the picture in CW position tho.

If u have the manual & understand what everyone has told u abt the tuning procedure u should also be gud to go there too. Personally I never could exactly get used to the drill on a Drake.

Any tube rig can generally be tuned up abt the same way if u have an external watt meter. They all generally have 3 knobs, Tune, Plate & Drive, altho they may be called something else. The Drive may be called Preselector or some such.

U set the Drive first & u can set it roughly just by listening while u turn it. At some point the received sig will be stronger.

The Plate control will generally have a scale around it telling u approximately where it should be set to start with.

Once u have set the Drive & Plate knobs approximately u key the rig & adjust the Tune control for max output. That should get u in the ballpark. From there u alternately tune the rig using both the Plate & Tune control alternately. U MAY also need to touch up the Drive but generally not much. Don't lay on the key, u can burn up finals just tuning.

If u don't have an external meter most rigs have an RF or RF Output or RF Volt position on their meter & that will indicate relative output. Even if u don't have that....not to worry. If u alternately turn the Plate & Tune controls until u get the lowest plate current reading it will also have the maximum output.

What's happening here is that the tubes have an output impedance that is far removed from what the antenna is looking for so tube rigs need an impedance matching circuit built in....that's what ur adjusting. It also allows tube rigs to operate w/ ants that a transistorized rig couldn't handle, generally up to abt 3:1 SWR or at least 2:1.

Hope u get it squared away,

Butch KA4MIC

[Non-text portions of this message have been removed]

2755. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 00:31:06 UTC
From: Carl McLelland
Topic: 2739 Message: 2755

Curt, Butch, thanks for the input; I appreciate it.

Here is what I've read on the EV mike. as I previously said, it has 3 wires plus shield. The black wire is soldered to the shield so they are one. Then a Red and clear wire. Ohm measurements are unkeyed and keyed. Oh, the readings were taken form the plug tip (Red), ring (Clear) and barrel (shield/Black). There is one wire that goes TO the mike. It's the clear wire. Now I don't know if that makes a difference with its location on the plug (tip or ring) with regard to what generates the (vocal) signal, but look at the resistance readings:

shield to red unkey 1176 ohm key '0' no reisitance
shield to clear unkey 1176 ohm key '0' no resistance
red to clear unkey '0' no resistance key '0' no resistance

Now in my (somewhat) warped logic, I would think that when the mike is UNKEYED there should be total resistance (reading of '1' on ohm meter) on either red and/or clear wire through the mike. In other words, it seems to me there should be a 'break' somewhere when the mike is unkeyed, and that isn't happening. That condition is confirmed because the transmitter is keyed (transmitting to the dummy load) even when the mike is unkeyed.

Now I just happen to have an Astatic hand mike lying here, so I took a look at the readings on that. It, too has three wires plus shield: Black, Red and Clear. I did the same tests to it that I did with the EV mike. (It's NOT connected to a plug; just bare wires).

shield to black unkey '0' key '0'
shield to red unkey '1' key '0'
shield to clear unkey '0' key '1'
red to clear unkey '1' key '1'

We can disregard the black wire on the Astatic mike; it seems to be permanently grounded to the shield. It looks to me that the red wire, keyed, completes the required circuit when the mike is keyed so that audio (voice) would, indeed, arrive at the radio to be transmitted. Now I don't know if the 'red' wire should be attached to the tip or ring on a plug, but there IS a difference between that mike and the EV mike.

I might attach the Astatic mike to a plug I have and see what happens, but rather than experiment I'm going to see if I can come up with a 'bona-fide' mike that is working on a Drake transmitter. I'm hopin' Joe Wolfe might want to come by and have a personal look at the gear, and if he had an operable mike in his back pocket.....

THAT would solve a whole bunch of problems.. Determine that (1) my AV mike is bad, (2) the rest of my gear is working good, and most important: someone who knows Drake gear to lead me by the hand through the setup and tuning procedure... thus reducing the likelyhood MY finals will come reigning down upon HIS rooftop instead of Santa's sleigh and eighteen raindeer (hauling all that new HF gear to his house).....

Good News is that (again thanks to y'alls aid) I believe the CW problem has been resolved!!
Thanks guys and 73's around!!
Carl KF7GJO ("the Rookie")

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 15, 2009 9:26 AM
Subject: [DrakeRadio] Re: Microphone Woes

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But if the mic cable has two wires plus a shield, the above should work.

Curt
KU8L

[Non-text portions of this message have been removed]

2756. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 01:07:32 UTC
From: W0TQ
Topic: 2739 Message: 2756

It sounds like the mic is wired OK, a lot of EV and other old mic info
is at http://www.coutant.org/

Radio mic diagrams at http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=15709

I have several old mics wired for my Drakes, will be glad to try and
confirm your readings.

Since I'm coming in mid stream, what kind of Drake is it?

Lou W0TQ

Carl McLelland wrote:
>
>
> Curt, Butch, thanks for the input; I appreciate it.
>
> Here is what I've read on the EV mike. as I previously said, it has 3
> wires plus shield. The black wire is soldered to the shield so they
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> house)........
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> Good News is that (again thanks to y'alls aid) I believe the CW
> problem has been resolved!! Thanks guys and 73's around!!
> Carl KF7GJO ("the Rookie")
>
> ----- Original Message -----
> From: captcurt2000
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Tuesday, December 15, 2009 9:26 AM
> Subject: [DrakeRadio] Re: Microphone Woes
>
> In CW, the VOX circuit controls the TR switching. Now, I'm bsing this
> on the t-4x, but recall that it is the same. It works this way because
> the sidetone for hearing your CW work all works thru the Vox/Mic audio
> section. So yes, you need the vox setting to hold in the relay.
>
> For the mics. Here is the poop. Mostly: one side of the switch and one
> side of the mic element share a ground line or shield. then the mic
> element runs out one line and the PTT switch out the third.
>
> That is the setup that occurs inside the Tx. Now, some microphones are
> set up that way and some bring all the wires out to the cable
> seperately--in which case you just connect them together inside the
> plug anyway.
>

> Try this--push the PTT switch on the mic and check which wire shows
> zero resistance to the shield. this is the PTT Switch. it should show
> infinite res when you release the switch. the other wire should show a
> high resistance but not open when measured to the shield--this is the
> mic element.
>
> There are many variations on mic wiring so search for a diagram for
> your mic if this is not how it is set up.
>
> EV was known for using 4 pin connectors on mics so by changing the
> pins you connect to, you could change the impedance of the mic output.
>
> But if the mic cable has two wires plus a shield, the above should work.
>
> Curt
> KU8L
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2757. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 01:24:23 UTC
From: Carl McLelland
Topic: 2739 Message: 2757

Howdy Lou,
It's a Drake R4C, T4XC, MN-2000, MS4(?) power supply/speaker. T'was a gift from an old friend to get my licenses so I could talk on it instead of just listen. I've done "My Part" (just got my General) and now I'm struggling to get this gear on the air. I'll take a look at those websites after dinner.

Thanks.. and 73's
Carl `KF7GJO

----- Original Message -----
From: W0TQ
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, December 15, 2009 5:07 PM
Subject: Re: [DrakeRadio] Re: Microphone Woes

It sounds like the mic is wired OK, a lot of EV and other old mic info
is at http://www.coutant.org/

Radio mic diagrams at http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=15709

I have several old mics wired for my Drakes, will be glad to try and
confirm your readings.

Since I'm coming in mid stream, what kind of Drake is it?

Lou W0TQ

Carl McLelland wrote:
>
>
> Curt, Butch, thanks for the input; I appreciate it.
>
> Here is what I've read on the EV mike. as I previously said, it has 3
> wires plus shield. The black wire is soldered to the shield so they
> are one. Then a Red and clear wire. Ohm measurements are unkeyed and
> keyed. Oh, the readings were taken form the plug tip (Red), ring
> (Clear) and barrel (shield/Black). There is one wire that goes TO the
> mike. It's the clear wire. Now I don't know if that makes a difference
> with its location on the plug (tip or ring) with regard to what
> generates the (vocal) signal, but look at the resistance readings:
>
> shield to red unkey 1176 ohm key '0' no reisitance
> shield to clear unkey 1176 ohm key '0' no resistance
> red to clear unkey '0' no resistance key '0' no resistance
>
> Now in my (somewhat) warped logic, I would think that when the mike is
> UNKEYED there should be total resistance (reading of '1' on ohm meter)

> on either red and/or clear wire through the mike. In other words, it
> seems to me there should be a 'break' somewhere when the mike is
> unkeyed, and that isn't happening. That condition is confirmed because
> the transmitter is keyed (transmitting to the dummy load) even when
> the mike is unkeyed.
>
> ---
>
> Now I just happen to have an Astatic hand mike lying here, so I took a
> look at the readings on that. It, too has three wires plus shield:
> Black, Red and Clear. I did the same tests to it that I did with the
> EV mike. (It's NOT connected to a plug; just bare wires).
>
> shield to black unkey '0' key '0'
> shield to red unkey '1' key '0'
> shield to clear unkey '0' key '1'
> red to clear unkey '1' key '1'
>
> We can disregard the black wire on the Astatic mike; it seems to be
> permanently grounded to the shield. It looks to me that the red wire,
> keyed, completes the required circuit when the mike is keyed so that
> audio (voice) would, indeed, arrive at the radio to be transmitted.
> Now I don't know if the 'red' wire should be attached to the tip or
> ring on a plug, but there IS a difference between that mike and the EV
> mike.
>
> I might attach the Astatic mike to a plug I have and see what happens,
> but rather than experiment I'm going to see if I can come up with a
> 'bona-fide' mike that is working on a Drake transmitter. I'm hopin'
> Joe Wolfe might want to come by and have a personal look at the gear,
> and if he had an operable mike in his back pocket.....
>
> THAT would solve a whole bunch of problems.. Determine that (1) my AV
> mike is bad, (2) the rest of my gear is working good, and most
> important: someone who knows Drake gear to lead me by the hand through
> the setup and tuning procedure... thus reducing the likelyhood MY
> finals will come reigning down upon HIS rooftop instead of Santa's
> sleigh and eighteen raindeer (hauling all that new HF gear to his
> house).....
>
> Good News is that (again thanks to y'alls aid) I believe the CW
> problem has been resolved!! Thanks guys and 73's around!!
> Carl KF7GJO ("the Rookie")
>
> ----- Original Message -----
> From: captcurt2000
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Tuesday, December 15, 2009 9:26 AM
> Subject: [DrakeRadio] Re: Microphone Woes
>

> In CW, the VOX circuit controls the TR switching. Now, I'm bsing this
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> section. So yes, you need the vox setting to hold in the relay.
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> For the mics. Here is the poop. Mostly: one side of the switch and one
> side of the mic element share a ground line or shield. then the mic
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> That is the setup that occurs inside the Tx. Now, some microphones are
> set up that way and some bring all the wires out to the cable
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> Try this--push the PTT switch on the mic and check which wire shows
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> mic element.
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> There are many variations on mic wiring so search for a diagram for
> your mic if this is not how it is set up.
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> EV was known for using 4 pin connectors on mics so by changing the
> pins you connect to, you could change the impedance of the mic output.
>
> But if the mic cable has two wires plus a shield, the above should work.
>
> Curt
> KU8L
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2758. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 01:28:20 UTC
From: W0TQ
Topic: 2739 Message: 2758

Great setup, you have the manuals? The tuneup procedure is in there,
but just copy out the one page you need and tape it to the desk. After
a few times you won't need it anymore. Drakes are actually pretty easy,
although they may seem daunting at first.

Lou W0TQ

Carl McLelland wrote:
>
>
> Howdy Lou,
> It's a Drake R4C, T4XC, MN-2000, MS4(?) power supply/speaker. T'was a
> gift from an old friend to get my licenses so I could talk on it
> instead of just listen. I've done "My Part" (just got my General) and
> now I'm struggling to get this gear on the air. I'll take a look at
> those websites after dinner.
>
> Thanks.. and 73's
> Carl `KF7GJO
>
> ----- Original Message -----
> From: W0TQ
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Tuesday, December 15, 2009 5:07 PM
> Subject: Re: [DrakeRadio] Re: Microphone Woes
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> It sounds like the mic is wired OK, a lot of EV and other old mic info
> is at http://www.coutant.org/ <http://www.coutant.org/>
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>
> I have several old mics wired for my Drakes, will be glad to try and
> confirm your readings.
>
> Since I'm coming in mid stream, what kind of Drake is it?
>
> Lou W0TQ
>
> Carl McLelland wrote:
> >
> >
> > Curt, Butch, thanks for the input; I appreciate it.
> >

> > Here is what I've read on the EV mike. as I previously said, it has 3
> > wires plus shield. The black wire is soldered to the shield so they
> > are one. Then a Red and clear wire. Ohm measurements are unkeyed and
> > keyed. Oh, the readings were taken form the plug tip (Red), ring
> > (Clear) and barrel (shield/Black). There is one wire that goes TO the
> > mike. It's the clear wire. Now I don't know if that makes a difference
> > with its location on the plug (tip or ring) with regard to what
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> > on either red and/or clear wire through the mike. In other words, it
> > seems to me there should be a 'break' somewhere when the mike is
> > unkeyed, and that isn't happening. That condition is confirmed because
> > the transmitter is keyed (transmitting to the dummy load) even when
> > the mike is unkeyed.
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> > --
> >
> > Now I just happen to have an Astatic hand mike lying here, so I took a
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> > audio (voice) would, indeed, arrive at the radio to be transmitted.
> > Now I don't know if the 'red' wire should be attached to the tip or
> > ring on a plug, but there IS a difference between that mike and the EV
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> > but rather than experiment I'm going to see if I can come up with a
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> > Joe Wolfe might want to come by and have a personal look at the gear,
> > and if he had an operable mike in his back pocket.....
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> > THAT would solve a whole bunch of problems.. Determine that (1) my AV
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> > important: someone who knows Drake gear to lead me by the hand through

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> > finals will come reigning down upon HIS rooftop instead of Santa's
> > sleigh and eighteen raindeer (hauling all that new HF gear to his
> > house).....
> >
> > Good News is that (again thanks to y'alls aid) I believe the CW
> > problem has been resolved!! Thanks guys and 73's around!!
> > Carl KF7GJO ("the Rookie")
> >
> > ----- Original Message -----
> > From: captcurt2000
> > To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> <mailto:DrakeRadio%40yahoogroups.com>
> > Sent: Tuesday, December 15, 2009 9:26 AM
> > Subject: [DrakeRadio] Re: Microphone Woes
> >
> > In CW, the VOX circuit controls the TR switching. Now, I'm bsing this
> > on the t-4x, but recall that it is the same. It works this way because
> > the sidetone for hearing your CW work all works thru the Vox/Mic audio
> > section. So yes, you need the vox setting to hold in the relay.
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> > For the mics. Here is the poop. Mostly: one side of the switch and one
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> > Try this--push the PTT switch on the mic and check which wire shows
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> > high resistance but not open when measured to the shield--this is the
> > mic element.
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> > There are many variations on mic wiring so search for a diagram for
> > your mic if this is not how it is set up.
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> > EV was known for using 4 pin connectors on mics so by changing the
> > pins you connect to, you could change the impedance of the mic output.
> >
> > But if the mic cable has two wires plus a shield, the above should work.
> >
> > Curt
> > KU8L
> >
> > [Non-text portions of this message have been removed]
> >
> >

>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2759. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 01:44:56 UTC
From: Richard Knoppow
Topic: 2739 Message: 2759

----- Original Message -----
From: "Carl McLelland" <carlynneracing@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, December 15, 2009 4:31 PM
Subject: Re: [DrakeRadio] Re: Microphone Woes

> Curt, Butch, thanks for the input; I appreciate it.
>
Pardon me if I am posting something that has already
been posted or answering the wrong question.
At least on the B and C line stuff the connector is wired
for shield and ground on the sleeve, audio on the ring and
push to talk switch between ground and tip. The switch
should close to key the transmitter.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2760. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 02:55:38 UTC
From: captcurt2000
Topic: 2739 Message: 2760

Yep..thats the scheme on the T4X also..

What is the 1 and 0 stuff on the ohmmeter? I get 0, but where is the threshold for a 1? Why not a real resistance?

Looks like the astatic mic is correct.

Gud to get a known good setup and someone familiar with the rig to help for sure.

Curt

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Carl McLelland" <carlynneracing@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, December 15, 2009 4:31 PM
> Subject: Re: [DrakeRadio] Re: Microphone Woes
>
>
> > Curt, Butch, thanks for the input; I appreciate it.
> >
> Pardon me if I am posting something that has already
> been posted or answering the wrong question.
> At least on the B and C line stuff the connector is wired
> for shield and ground on the sleeve, audio on the ring and
> push to talk switch between ground and tip. The switch
> should close to key the transmitter.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

2761. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 03:05:11 UTC
From: Butch Housman
Topic: 2739 Message: 2761

>warped logic,

Maybe semantic disconnect ???

>I would think that when the mike is UNKEYED there should be total resistance (reading of >'1' on ohm meter)

Excuse me for being so basic but let's talk abt reading ur ohm meter ....I just want to be sure we're on the same page. Assuming u have an analog meter, for "Infinite" resistance or no contact...an open circuit, the needle should not move from the left side. For a closed or shorted circuit the needle should swing full scale right to "zero" ohms.

Someone please correct me if I'm wrong but I THINK the mic tip on a Drake is PTT, so w/ ur meter connected from the mic tip to the shield ur meter should read full scale or zero ohms when u press the button & infinity or NO needle movement when the button is not pressed. The ring to tip reading should be a few thousand ohms, maybe just 1K ohms & should not change when u PTT.

Is this right u Drake experts ???? (I think so)

U might also try connecting the meter tip to shield, press the button & jiggle the cord, stretch it, bump the mic, move the button etc. If it doesn't show a constant closed circuit then u have the dreaded "Terminus Intermitus". Best thing to do then is shoot the mic repeatedly w/ a handgun of at least .357 caliber. Be sure to take it outside first. Trust me !

b

PS. Cut the plug off first, the damn things r worth almost as much as the radio.

[Non-text portions of this message have been removed]

2762. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 03:12:08 UTC
From: Big Mike
Topic: 2739 Message: 2762

You got it right Butch.

I have been watching this thread for a while now and so far you seem to be the only one with an answer for a new Drake owner.

73,
Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2763. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 03:13:55 UTC
From: Jim Shorney
Topic: 2739 Message: 2763

On Tue, 15 Dec 2009 22:05:11 -0500, Butch Housman wrote:

>Excuse me for being so basic but let's talk abt reading ur ohm meter I
>just want to be sure we're on the same page. Assuming u have an analog
>meter,

Sounds like he is using a digital meter to me.

>The ring to tip reading should be a
>few thousand ohms, maybe just 1K ohms & should not change when u PTT.
>
>Is this right u Drake experts ???? (I think so)

Assuming you mean ring to shell (ground), not if this is a proper high-impedance mic. DC resistance should be on the order of a few thousand K-Ohms to several hundred K-Ohms, or more for ceramic cartridges. If it's a low impedance mic, it won't work very well without a matching transformer.

>Best thing to do then is shoot the mic repeatedly w/ a handgun
>of at least .357 caliber. Be sure to take it outside first. Trust me !

Or just repair the mic, which usually involves putting a new cord on it or repairing wiring that has been hosed up by a previous owner. Some of these vintage mics are worth their weight in gold, even non-working. And they often sound better than what is out there now, expecially on Drakes.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2764. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 04:08:40 UTC
From: Lou W0TQ
Topic: 2739 Message: 2764

Carl,

I dissected a EV 638, which I suppose is close to yours. At one time I used this with my Drakes. The PTT, Red to ground, is infinite until switch closure then almost zero. The audio line, clear wire is about 18 Meg Ohms until PTT closure then about 1.2 K Ohms. Red is tip, clear is ring, black and audio shield in barrel.

My Drake 7075s have a higher resistance in audio but otherwise the same. I have also used Drake mics, Heathkit mics, D104 and Turner amplified mics and all were wired the same. So at this point I think you just have a problem in the mic. Would try looking and continuity testing on the wires, check PTT switch in the mic, wiring up from the switch to element.

Lou

Carl McLelland wrote:
>
>
> Howdy Lou,
> It's a Drake R4C, T4XC, MN-2000, MS4(?) power supply/speaker. T'was a
> gift from an old friend to get my licenses so I could talk on it
> instead of just listen. I've done "My Part" (just got my General) and
> now I'm struggling to get this gear on the air. I'll take a look at
> those websites after dinner.
>
> Thanks.. and 73's
> Carl `KF7GJO
>

[Non-text portions of this message have been removed]

2765. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 05:13:06 UTC
From: Richard Knoppow
Topic: 2739 Message: 2765

----- Original Message -----
From: "Lou W0TQ" <w0tq@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, December 15, 2009 8:08 PM
Subject: Re: [DrakeRadio] Re: Microphone Woes

> Carl,
>
> I dissected a EV 638, which I suppose is close to yours.
> At one time I
> used this with my Drakes. The PTT, Red to ground, is
> infinite until
> switch closure then almost zero. The audio line, clear
> wire is about 18
> Meg Ohms until PTT closure then about 1.2 K Ohms. Red is
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> same. I have also used Drake mics, Heathkit mics, D104
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> amplified mics and all were wired the same. So at this
> point I think
> you just have a problem in the mic. Would try looking and
> continuity
> testing on the wires, check PTT switch in the mic, wiring
> up from the
> switch to element.
>
> Lou
>
> Carl McLelland wrote:

Not sure I understand what measurements have been made.
Some microphones have push to talk switches which have
two (or sometimes more) sets of contacts: one provides a
contact closure to key the transmitter and the other is in
series with the microphone element to eliminate audio when
the mic is not keyed. I think the idea of this is to prevent
VOX operation in some transmitters during PTT use. The
contacts may be arranged so that they can be wired to either
short or open the mic line when not actuated.
An example of such a microphone is the Electro-Voice 600
Series, a moving coil hand-held mobile mic. The cord has at

least four wires so that the mic line and keying switch may be completely separated. The Low impedance version has enough wires to provide a balanced output if desired. The choice of switch methods is up to the user and is selected by moving wires on the switch.
The resistance of a pure contact closure should be essentially either an open or short (of course, there will be some contact resistance and some wire resistance if you want to be annoyingly picky). Resistance of more than a couple of ohms when the switch is closed suggests the switch contacts are dirty.
The resistance measured across the mic element will depend on the element. Usually, a dynamic mic made for a high-impedance circuit will have a matching transformer, measuring accross the element leads will measure the resistance of its secondary. This will be, in general, lower by quite a bit than the impedance. Some low-impedance dynamic mics have the voice coil connected directly; without a transformer, they will typically measure from about 10 ohms to perhaps a couple of hundred ohms. Most moving coil elements have an impedance of around 30 to 50 ohms but some are wound for around 200 ohms to save the cost of the transformer. The DC resistance will usually be on this order or a bit less.
A crystal or ceramic mic looks like a capacitance so it will have virtually infinite resistance when measured with an ohm meter.
Of course, this is for pure old fashioned mics which are without internal amplifiers or electronic switches of some sort. If it has either all bets are off and one must examine the circuit diagram to figure out what sort of values will be measured.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2766. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 15:27:24 UTC
From: Butch Housman
Topic: 2739 Message: 2766

The thread has gotten so long & confusing to me by now that I can hardly follow what's been suggested.

Right on the digital meter, I just couldn't figure out his readings.

I'm sure there r plenty of folks on this list who know much more abt Drakes than me. What we have here is an old radio in unknown condition & a user unfamiliar w/ boat anchors....a challenge.

U can tune 'em up w/ a light bulb & a paper clip, u just gotta know how !

Carl, I'm gonna stand by 'till u can sort thru this mess & get back to us. Don't get discouraged, one knob set wrong can completely mess u up & even if the radio does have problems it can almost certainly be made to work.

Butch KA4MIC / nnn0zei

PS. I was just joking abt shooting the mic. Given 48-72 hours of intense struggle, 3 gallons of coffee, 2 new cords & a couple of burns from the soldering iron even an intermittent mic can be repaired...temporarily. U gotta luv this old junk !!!

[Non-text portions of this message have been removed]

2767. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 18:19:53 UTC
From: Carl McLelland
Topic: 2739 Message: 2767

The thread has gotten so long & confusing to me by now that I can hardly follow what's been suggested.

What we have here is an old radio in unknown condition & a user unfamiliar w/ boat anchors....a challenge.

Thanks, Butch. That's a very adept and correct observation. In all my life of talking on a radio; to include 17 years of air traffic control, 20 years of law enforcement and 3000 hours of flying airplanes, when you wanted to talk on the wireless you brought a microphone up to your mouth and pushed a button commonly referred to as a PTT, which I've always believed meant "Push To Talk". Never had or used a "VOX" before. To me, "VOX" was a brand of audio amplifier made popular by the rock group "The Beatles" in the 60's.

OK, I'll give it one last shot here.....

I DID indeed find a short in the cable to the ElectroVoice mike. I was very curious why it had current flow between the shield and both red and clear wires when the PTT was unkeyed, and the red and clear wires were open with no resistance. After fixing that problem this is what I now have in the EV microphone.

Red to Shield operates PTT unkeyed no current flow and keyed current flow and no resistance
Clear to Shield current flow with resistance whether keyed or unkeyed
Red to Clear no current flow between these wires when unkeyed, current flow with resistance when keyed

I haven't connected the wires to the plug yet, but from another email it was confirmed the Red wire goes to the TIP, Clear wire to the RING, and Shield to the BARREL.

Now, to further confuse myself, I also have an Astatic hand mike. This is what I found with it:

Red to Shield operates PTT unkeyed no current flow and keyed current flow with no resistance
Clear to Shield current flow with no resistance when unkeyed, no current flow when keyed
Red to Clear no current flow whether keyed or not

CONCLUSIONS:
On either mike, the red wire is the one which controls the PTT switch.
On the EV mike the Clear wire flowed current with resistance whether keyed or not, and on the Astatic mike was open and no resistance unkeyed and no current when keyed.
Lastly, on the EV mike, between the Red and Clear wire there no current unkeyed and current with resistance keyed. On the Astatic mike there was no current whether keyed or not.

This makes me believe the EV mike may be designed to work with a VOX system where the Astatic mike designed to work in a NON-VOX system. Is this a correct assumption?

BEFORE I wire a mike to the plug I want to make certain I have the Correct Mike to wire. So I'll wait until I hear from someone who knows......

Secondly, one of you wrote a detailed list of steps to adjust the VOX and I'll follow that when I next light this thing up. Thank you.... I made a checklist to follow so I will tweek the correct knob in the right sequence.

ONE FINAL QUESTION.... Is there a way to turn the VOX completely off? While it may be the greatest thing since plastic snow cones, it's something I can just as easily live without. All I want is to be able to key the mike and have what I'm saying be transmitted. Maybe I'll one day be happy to have it but for now I just want to be able to key the mike and talk; and I see VOX as preventing that from happening.

Thanks guys....
Carl

[Non-text portions of this message have been removed]

2768. I need some manuals in PDF format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 19:30:12 UTC
From: JimmyB
Topic: 2768 Message: 2768

One for TR7
one for MN2700 Matching network

2769. Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 20:06:22 UTC
From: captcurt2000
Topic: 2739 Message: 2769

Turn the SSB Vox control all the way CCW will essential prevent ti from activating..then u must use PTT.

Curt

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
>
> The thread has gotten so long & confusing to me by now that I can hardly
> follow what's been suggested.
>
> What we have here is an old radio in unknown condition & a user
> unfamiliar w/ boat anchors....a challenge.
>
> Thanks, Butch. That's a very adept and correct observation. In all my life of talking on a radio; to include 17 years of air traffic control, 20 years of law enforcement and 3000 hours of flying airplanes, when you wanted to talk on the wireless you brought a microphone up to your mouth and pushed a button commonly referred to as a PTT, which I've always believed meant "Push To Talk". Never had or used a "VOX" before. To me, "VOX" was a brand of audio amplifier made popular by the rock group "The Beatles" in the 60's.
>
> OK, I'll give it one last shot here.....
>
> I DID indeed find a short in the cable to the ElectroVoice mike. I was very curious why it had current flow between the shield and both red and clear wires when the PTT was unkeyed, and the red and clear wires were open with no resistance. After fixing that problem this is what I now have in the EV microphone.
>
> Red to Shield operates PTT unkeyed no current flow and keyed current flow and no resistance
> Clear to Shield current flow with resistance whether keyed or unkeyed
> Red to Clear no current flow between these wires when unkeyed, current flow with resistance when keyed
>
> I haven't connected the wires to the plug yet, but from another email it was confirmed the Red wire goes to the TIP, Clear wire to the RING, and Shield to the BARREL.
>
>
> ---
>
> Now, to further confuse myself, I also have an Astatic hand mike. This is what I found with it:
>
> Red to Shield operates PTT unkeyed no current flow and keyed current flow with no resistance

> Clear to Shield current flow with no resistance when unkeyed, no current flow when keyed
> Red to Clear no current flow whether keyed or not
>
> ---
>
> CONCLUSIONS:
> On either mike, the red wire is the one which controls the PTT switch.
> On the EV mike the Clear wire flowed current with resistance whether keyed or not, and on the Astatic mike was open and no resistance unkeyed and no current when keyed.
> Lastly, on the EV mike, between the Red and Clear wire there no current unkeyed and current with resistance keyed. On the Astatic mike there was no current whether keyed or not.
>
> This makes me believe the EV mike may be designed to work with a VOX system where the Astatic mike designed to work in a NON-VOX system. Is this a correct assumption?
>
> BEFORE I wire a mike to the plug I want to make certain I have the Correct Mike to wire. So I'll wait until I hear from someone who knows......
>
> Secondly, one of you wrote a detailed list of steps to adjust the VOX and I'll follow that when I next light this thing up. Thank you.... I made a checklist to follow so I will tweek the correct knob in the right sequence.
>
> ONE FINAL QUESTION.... Is there a way to turn the VOX completely off? While it may be the greatest thing since plastic snow cones, it's something I can just as easily live without. All I want is to be able to key the mike and have what I'm saying be transmitted. Maybe I'll one day be happy to have it but for now I just want to be able to key the mike and talk; and I see VOX as preventing that from happening.
>
> Thanks guys....
> Carl
>
>
>
>
> [Non-text portions of this message have been removed]
>

2770. Re: [DrakeRadio] I need some manuals in PDF format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 20:15:52 UTC
From: Carl McLelland
Topic: 2768 Message: 2770

Jimmy,
Put your offnet email address on here and I'll email the MN-2700 manual in pdf format to ya..
Carl
carlynneracing@...

----- Original Message -----
From: JimmyB
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, December 16, 2009 11:30 AM
Subject: [DrakeRadio] I need some manuals in PDF format

One for TR7
one for MN2700 Matching network

[Non-text portions of this message have been removed]

2771. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 21:43:58 UTC
From: Butch Housman
Topic: 2739 Message: 2771

OK Carl, ur last email was all abt the mics, we can get that squared away I'm sure.

The shield is going to be common to both the ptt & the element so u know where to solder it. Whichever wire makes & breaks w/ the ptt button should be soldered to the tip. The one left over goes to the ring......deceptively simple.

In MY mind the bigger question is whether or not the rig has problems or whether it's pilot error. Sooo.....setting the mic aside for a moment, can u get the rig tuned up & how much output do u have ? If u have a dummy load I'd suggest u just try to tune into that first. What kind of ant. r u using ??????

b

[Non-text portions of this message have been removed]

2772. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-16 23:19:23 UTC
From: jimburlile
Topic: 2728 Message: 2772

Hi Peter;

Just in case you did not get the email I sent, the springs went out yesterday priority mail so they should be there in a few days.

Jim.

--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
>
> Jim, If you had two of the flat springs to spare that would be outstanding. There may be a way to email through Yahoo but I am not familiar with the process. Please email me at my call sign (KC2RBX) at ARRL.Net. Thanks very much, Peter.
>
>
> --- In DrakeRadio@yahoogroups.com, "jimburlile" <jimburlile@> wrote:
> >
> > Hi Peter;
> >
> > If you are looking for the flat springs that go in the push on knobs, let me know. I have a few of them from NOS knobs that I need to drill and tap for set screws, so I do not need them.
> >
> > I am in the process of cleaning up an R4A and T4X that I got several years ago from a friend.
> >
> > Also to the Drake owners here, is it considered ok to have the cases powder coated if the original is really bad? The paint on mine is not in verry good condition and I would like them to look decent.
> >
> > They were in nonworking condition when I got them, so I had to go thru the TX, RX and redo the AC-3 to get them working well. I had a friend make several contacts on 80 meters and recieved good reports on them.
> >
> > Thanks for letting me in befor recieving a ticket, I am working on that and should have one soon.
> >
> > Jim.
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@> wrote:
> > >
> > > Hi guys, I am looking for a few small parts for my TR-4Cw. I could use tube chimneys for the V6 12BY7A tube and the V7 12BA6 tube. I could also use one of the small arched flat springs that keep the Plate/Load shafts snug. Thanks, Peter KC2RBX

> > >
> >
>

2773. Re: [DrakeRadio] I need some manuals in PDF format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 01:17:25 UTC
From: Jim Shorney
Topic: 2768 Message: 2773

mods.dk has lots of Drake manuals for free download. The Drake Museum web site has some. wb4hfn.com also has some, but they come page-by-page as image files.

73

-Jim

On Wed, 16 Dec 2009 19:30:12 -0000, JimmyB wrote:

>One for TR7
>one for MN2700 Matching network
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2774. Re: [DrakeRadio] I need some manuals in PDF format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 01:27:29 UTC
From: Carl McLelland
Topic: 2768 Message: 2774

Well Jim,
You are certainly "showing your age".... When I saw "PS2".... I cut my computer teeth on a UNIVAC 8300 mainframe, programming in ULTRA assembly language. I sent him the manual for the MN-2700 earlier. Hopefully he has the book for the TR7 by now....
73's.
Carl KF7GJO
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, December 16, 2009 5:17 PM
Subject: Re: [DrakeRadio] I need some manuals in PDF format

mods.dk has lots of Drake manuals for free download. The Drake Museum web site
has some. wb4hfn.com also has some, but they come page-by-page as image files.

73

-Jim

On Wed, 16 Dec 2009 19:30:12 -0000, JimmyB wrote:

>One for TR7
>one for MN2700 Matching network
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

2775. Re: [DrakeRadio] Re: Microphone Woes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 01:47:14 UTC
From: Jim Shorney
Topic: 2739 Message: 2775

On Wed, 16 Dec 2009 10:19:53 -0800, Carl McLelland wrote:

>CONCLUSIONS:
>On either mike, the red wire is the one which controls the PTT switch.
>On the EV mike the Clear wire flowed current with resistance whether keyed or not, and on the Astatic mike was open and no resistance unkeyed and no current when keyed.
>Lastly, on the EV mike, between the Red and Clear wire there no current unkeyed and current with resistance keyed. On the Astatic mike there was no current whether keyed or not.
>
>This makes me believe the EV mike may be designed to work with a VOX system where the Astatic mike designed to work in a NON-VOX system. Is this a correct assumption?

Carl,

As has been pointed out, not all mics are created equal. The wiring is dependant on the intended application, and the color code of the wires has varied over the years. The "standard" colors of red, black, white (clear) and shield has become a rainbow mix. I have had to take apart more mics than I can remember over the years to decipher how they were wired and bend them to my will.

PTT is a switch contact closure. Plain and simple. Depending on the mic, this can be a closure to ground (the frame of the mic), shield, or another wire of whatever color. There can also be a contact closure provided on receive (which you don't need to worry about in this application).

I won't go into the "Monitor" switch found on commercial ("business radio") mics, since you don't seem to have that.

The audio can be wired straight through, so as to be on (or "hot") all the time. Or it can be routed through a set of switch contacts that close on transmit to complete the path. Or, it can be connected to a pair of switch contacts that short it to ground on receive. For balanced applications, usually PA and music, both wires are brought out as seperate conductors, either shielded or unshielded, and the frame ground is (usually) connected to the cable shield.

It gets even more complicated with some mics designed for CB radio use, but I doubt that is what you have. Bottom line, they pretty much all can be made to work on a ham rig with a little tinkering. The only real concern is whether the element is high or low impedance - Drakes require high impedance.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2776. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 02:35:13 UTC
From: Noodle10536
Topic: 2728 Message: 2776

Jim, I did get your emails. Thank you very much for your help. It will help me to get the radio closer to completion and on the air. Hopefully no more smoke will leak out :-) I will keep everyone posted. It will be a big accomplishment for me as a newby and repair novice. Thanks very much again, Peter KC2RBX.

2777. Re: Small Parts Wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 08:53:22 UTC
From: jimburlile
Topic: 2728 Message: 2777

Hi Peter;

I am glad to be able to help you with the parts.

Just take your time and make sure that anything that is done is thought out well befor you put the power to it, then keep a cork or two handy to plug the magic smoke befor it gets out.lol

The 4 line that I have was non working when I got it many years ago, so I had to go thru everything. I did that about 5 years ago and had a friend stop by for a few nights and work the rig. I had it aligned about as well as it could be done so it works verry well.

I actually enjoy working on Drake and Collins radios, they are well built and can last a life time if taken care of.

I am actually old enough that I remember when the 4 line Drakes hit the stores in Dayton, Ohio and both my Father and Uncle wanted them really bad, but could not afford a set. Of courst they both wanted a KWM2 also.lol

Good luck with it and I hope to hear you on the air soon.

Jim.

--- In DrakeRadio@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> Jim, I did get your emails. Thank you very much for your help. It will help me to get the radio closer to completion and on the air. Hopefully no more smoke will leak out :-) I will keep everyone posted. It will be a big accomplishment for me as a newby and repair novice. Thanks very much again, Peter KC2RBX.
>

2778. Drake 15 Meg Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 09:01:37 UTC
From: Dale Parfitt
Topic: 2778 Message: 2778

Was it someone on this list looking for a 15M pot? I have a NOS Drake piece. E-Mail me.

Dale W4OP

[Non-text portions of this message have been removed]

2779. Aluminum Knob inlay removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 13:14:56 UTC
From: Dave
Topic: 2779 Message: 2779

What is the best way to remove the aluminum inlay on the main tuning knob on a T-4xc?
Thanks
Wink WA8KOQ

2780. Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 13:11:50 UTC
From: DD
Topic: 2780 Message: 2780

Turner Plus 2 microphone...spec sheet says 5Kohm...that makes it "high impenence"? thus will work fine for Drake TR 4? If I don't run the audio too high...I can't find a diagram of the mic but I can take it apart and figure that out. If I do it wrong, I have a "smoke-e-tron" hihi. from what I gather 250 to 600 ohms is low impedence and that would make 5kohm a high...or am I asking a "stupid question"?

Enjoyed the learning lessons on mics, sometimes when the 4 acts up, I have to key the mic to work CW but that's in the manual so it must be a common problem with the VOX settings, I'll try the fix...My manual says that a foot keying switch may be necessary for proper CW operation, is that because the VOX setting for SSB and CW is different? Just asking the question...I'll try it and find out...tnx guys, very informative group...de HXB. DD

2781. Re: [DrakeRadio] Aluminum Knob inlay removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 13:39:10 UTC
From: Dale Parfitt
Topic: 2779 Message: 2781

----- Original Message -----
From: Dave
To: DrakeRadio@yahoogroups.com
Sent: Thursday, December 17, 2009 8:14 AM
Subject: [DrakeRadio] Aluminum Knob inlay removal

What is the best way to remove the aluminum inlay on the main tuning knob on a T-4xc?
Thanks
Wink WA8KOQ

I have drilled a small hole and pried it up from there. Much better than digging around the edges and tearing up an area that is visible.

Dale W4OP

[Non-text portions of this message have been removed]

2782. Re: [DrakeRadio] Aluminum Knob inlay removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 15:03:42 UTC
From: g4jss@tiscali.co.uk
Topic: 2779 Message: 2782

Hi

For what it is worth I found out by accident. Just take the knob off and soak it in hot water (not boiling). As far as I know it is only cemented on (glued) which melts in hot water and then it nearly falls off. I was trying to clean all the ingrained dust off the knob and soaked it - very clean knob but aluminium fell off. Stuck it back on with a bit of impact glue.

Worked for me.

Vic

G4JSS

Find what you're looking for with Tiscali Search - http://www.tiscali.co.uk/search

[Non-text portions of this message have been removed]

2783. PA1HFO Pin diode attenuator mod - TR7 digital board question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 15:42:05 UTC
From: floydsense
Topic: 2783 Message: 2783

This mod consists of a separate small board that inserts a PIN diode attenuator at the input of the PA brick and uses the decoded bandswitch position to provide a different bias to the PIN diodes for each band. I've been unable to get any further explanation on the band info from PA1HFO, but maybe someone familiar with that board will have an opinion on this.

One of the inputs to the TR7 Digital Control Board is a 4 bit BCD encoding of the bandswitch position, coming from the bandswitch. The board converts that to a one bit decimal representation of the switch position, with a different bit representing each position. That's the 8 bits I need to drive the attenuator board circuit. I guess one option is to take the outputs I need directly from U201, but not being familiar with design using these components, I don't know if there'd be enough drive there to not have a negative affect on the logic that follows that on the digital board. It may also be that the only signal output lines from the digital card (labeled synthesizer load number) could be used and those are conveniently accessible via the card pins on the bottom of the motherboard.

Can anyone offer guidance on this? Thanks.

73, Floyd - K8AC

2784. Re: [DrakeRadio] Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 21:04:14 UTC
From: Richard Knoppow
Topic: 2780 Message: 2784

----- Original Message -----
From: "DD" <wachitapilot@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, December 17, 2009 5:11 AM
Subject: [DrakeRadio] Who says there are no stupid
questions?

> Turner Plus 2 microphone...spec sheet says 5Kohm...that
> makes it "high impenence"? thus will work fine for Drake
> TR 4? If I don't run the audio too high...I can't find a
> diagram of the mic but I can take it apart and figure that
> out. If I do it wrong, I have a "smoke-e-tron" hihi.
> from what I gather 250 to 600 ohms is low impedence and
> that would make 5kohm a high...or am I asking a "stupid
> question"?
>
> Enjoyed the learning lessons on mics, sometimes when the 4
> acts up, I have to key the mic to work CW but that's in
> the manual so it must be a common problem with the VOX
> settings, I'll try the fix...My manual says that a foot
> keying switch may be necessary for proper CW operation, is
> that because the VOX setting for SSB and CW is different?
> Just asking the question...I'll try it and find out...tnx
> guys, very informative group...de HXB. DD
>
Can't answer for the CW question.
Most microphones specify a source impedance. The Turner
in question has a built-in amplifier and was intended for
use with CB transmitters. The important thing is its output
voltage. While the Drake stuff was mostly made to operate
from high-impedance microphones with fairly high output
voltages the output of the amplifier may be too high without
some sort of attenuator. I can't find a spec sheet but if
you have one it should have this information. From what I
found it should have some internal adjustments.
All generator type microphones (crystal, moving coil,
ribbon, etc) are intended to be used into an open circuit,
the impedance being the source impedance. The low impedance
ones may require a step-up transformer to work into a tube
grid but still want to see a load impedance which is high
compared to their source impedance.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

2785. Re: [DrakeRadio] Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-17 22:47:45 UTC
From: Jim Shorney
Topic: 2780 Message: 2785

On Thu, 17 Dec 2009 13:11:50 -0000, DD wrote:

>Turner Plus 2 microphone...spec sheet says 5Kohm...that makes it "high impenence"? thus will work fine for Drake TR 4? If I don't run the audio too high...I can't find a diagram of the mic but I can take it apart and figure that out. If I do it wrong, I have a "smoke-e-tron" hihi. from what I gather 250 to 600 ohms is low impedence and that would make 5kohm a high...or am I asking a "stupid question"?

No, "high impedance" is usually in the area of 50 KOhms (50,000 Ohms) minimum. The +2 is an amplified mic, and the 5K is approximately the output impedance of the amplifier. It can be used over a wide range of load impedances due to the amplifier, low to high. Generally, amplified mics are not needed or recommended for Drakes, but if you are careful and keep the gain down, it should work fine and sound very good. And you won't let any smoke out if you get it wrong. It goes against my nature entirely, but I have been using a Turner +3 (later model with a bit of compression in the amplifier) with my TR-7/SP-75 combo lately because it has garnered stellar audio reports from some of the locals who know my voice and have suffered through my on-air mic comparison sessions.

IIRC, the +2 conforms to the old American "standard" of white=audio, red=PTT, black=PTT return, and shield=ground. There will probably be a switch on the bottom to change the configuration from "relay" to "electronic" switchng (a CB radio thing). This will change the behaviour of the red and black wires to make one grounded on receive and the other grounded on transmit. The "relay" conficuration is appropriate for our radios. It is not uncommon for the relay/electronic switch to be configured to break the PTT line so the mic can be used in VOX operation if desired.

Here's some info for you:

http://www.iw7ehc.altervista.org/downloads/microfoni/vintage/TurnerWiringBooklet.pdf

The first 12 pages contain some good general information on Turner mics, including the +2.

FWIW, I've tested the Turner 254HC, the non-amplified version of this particular family, on my TR-7 with excellent audio reports. If you wanted to go to the trouble, you could remove the amplifier from the circuit entirely, which would turn your +2 into essentially a 254HC. And save you a little money on batteries.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2786. Re: [DrakeRadio] Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 01:36:06 UTC
From: Jim Shorney
Topic: 2780 Message: 2786

On Thu, 17 Dec 2009 13:04:14 -0800, Richard Knoppow wrote:

>I can't find a spec sheet but if
>you have one it should have this information. From what I
>found it should have some internal adjustments.

The +2 has an external gain control on the rear apron of the microphone base.
It has plenty of output to drive Drake gear, in fact overdrive of set too high.
Used properly, it should work jsut fine.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2787. Re: Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 02:00:50 UTC
From: DD
Topic: 2780 Message: 2787

Thanks to Jim and Richard,,,I was almost positive it would present the Drake no problems. I think I might wait until I get a couple of mic plugs and not "de-wire" the one I have that is working. I've played with enough mics to never trust the "wiring diagram"...I can check the 4 schematics and I might as well go thru the Turner while I'm waiting, do a little house cleaning. It hasn't been used since I sold the 101 years ago.

And to answer my own question???? "The only stupid question is the one that wasn't asked" hihi.

Co-incentally, the CW question, I think, was answered in an earlier post,,,about the VOX adjustment being wrong, just haven't had time to play with that yet...Holidays....BAH HUMBUG, just another impediment to good radioing...but then again I might have a sticky relay but the mic works fine, just the CW part is a tad funny...Many thanks to Butch...this TR 4 is sure fun to play with.

de HXB.

2788. Re: [DrakeRadio] Re: Who says there are no stupid questions?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 02:15:33 UTC
From: Jim Shorney
Topic: 2780 Message: 2788

On Fri, 18 Dec 2009 02:00:50 -0000, DD wrote:

> I've played with enough mics to never trust the "wiring diagram"...

That's a good policy, not necessarily because wiring diagrams can be wrong (they can), but also because well-used mics may have been rewired multiple times by people (who may or may not know what they are doing).

73

-Jim (bad cords are also a common thing)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2789. My Drake Latest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 15:15:45 UTC
From: Carl McLelland
Topic: 2789 Message: 2789

Good morning guys,
Thought I'd pass on the latest on how things are going. After letting both the transmitter and my 'lack of patience' cool for a full 24 hours, I went methodically through the manual and tuned up the trnasmitter. When I got to CW, I held the key and got a good signal to the dummy load. I was showing aobut 130 watts output on the meter. For the mike, I ultimately wired up the Astatic hand mike. I wasn't satisfied with the ElectroVoice mike, and the Astatic seems to spec out correctly. I can't whissle, so I had to do the old "test one two three" into the mike, and I was getting a good 'bounce' on the meter, so I would say (1) the mike is working and (2) the transmitter is working. I've cranked the VOX all the way down as recommended in emails, and it appears that feature is out of my life for the time being. I'm getting closer.....

With the mike keyed, unless the (receiver) gain is turned all the way down, I get a terrible squeel from the receiver. My understanding was the transmitter was supposed to cut off the (receiver or speaker, don't know which), and this apparently isn't happening. Any ideas?

This morning, as usual I went out to the shop for a bit of "Audio Voyeurism". Now the highest band antenna I've got right now is a 20 meter dipole, so I couldn't transmit anyway, but I was receiving someone calling a CQ on 3.985, the QRP hailing freq. Admittedly, I couldn't catch his callsign so he may have been 'up the street', but the quality and quantity of reception across the bands tells me the receiver is working very well. (Note: this is with the receiver turned on, antenna plugged into the MN-2000 then transmitter, and the transmitter OFF).

OK, I wanted to check out one more feature... I turned on the transmitter to SSB. I immediately noted a drop in reception on the receiver, but I was still receiving. (The switch on the transmitter for selecting receiver or transmitter tuning was in the receiver mode).

Next I tried to tune in the same band on the transmitter that I had on the receiver. All I had was the electronic 'hum' noises you always here, but no incoming signal or noise to peak the frequency band. I thought this odd, so I went back to 'receiver' tuner selection and searched until I found a particularly loud side tone to try and "find" on the transmitter side... Switched back to transmitter (frequency) selection and nothing. Could not find it, couldn't peak the frequency band, couldn't hear ANYTHING except the usual hum of the radio.

Am I doing something wrong, or is there a problem with the transmitter? Have I even presented enough information to debug?

I'm starting to remind myself of my wife..... "There's something wrong with the car". "What is it doing?" "It makes this funny noise". "Please describe that funny noise. Was the car moving or stopped when it did it?" "You know, a funny noise... THAT funny noise". And so on.....

To think they refer to these things as "boat anchors"..... Just think, I've got a boat, too! (And I already carry two Danforth anchors on it, don't need another one).
73's around, and Merry Christmas.....
Carl KF7GJO

[Non-text portions of this message have been removed]

2790. Re: [DrakeRadio] My Drake Latest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 15:51:46 UTC
From: Butch Housman
Topic: 2789 Message: 2790

Sounds like some mixed results, at least it has pwr out.

Pardon me for being so dense but this has been a long & (to me) confusing thread + my Windows Explorer has gone belly up so I'm getting all this from a web based browser that I'm not used to.....

What model Drake r u using ? This is the one that has been setting for yrs right ???

When I buy an old radio of unknown condition the FIRST thing I do before ever turning it on is to take it out of the case & thoroughly clean all the switches w/ a gud spray cleaner. DeOxit is the best but Radio Shack works. I prefer a non lube type but sometimes that will make the switches a little hard to work. I spray down the chassis & the tube sockets (non lube type only) & rock all the tubes a little. In the process u can look everything over closely. Look for any obvious broken wires, bad solder joints & especially for previous user modifications. Hams love to fix stuff better than it came from the factory BUT not all of them really know what they're doing ! I know that's hard to believe.....

See if the power cord is gud, U may want to put a new 3 wire plug on it. Carefully clean the relays if it has any. If u find something loose or obviously messed up address the problem. Generally it's all OK but u don't know for sure & cleaning the switches & working them all vigorously often saves u from a lot of scratchy, intermittent performance.

As for the issues ur now having.....I gotta think abt that for awhile, I'm not thru my first cuppacoffee yet.

Top o the day to u,
Butch

PS. What radio is it.....what radio is it ????????

[Non-text portions of this message have been removed]

2791. Re: [DrakeRadio] My Drake Latest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 15:46:05 UTC
From: Garey Barrell
Topic: 2789 Message: 2791

The receiver FUNCTION switch must NOT be in the ON position for the transmitter to MUTE the receiver, it must be in EXT MUTE, NB, or CAL. Obviously the MUTE cable must be connected between the two, or a shorted plug in the receiver MUTE jack, or the receiver won't operate in these three positions.

For the receiver to work "through" the transmitter, there must be a cable between the RCVR ANT on the transmitter to the ANT jack on the receiver.

When using the TRANSCEIVE function in XMTR, the INJ cable must be connected between the two units as well. If it's a C Line, there must also be a cable between the CAR OSC and CARRIER OSC jacks on the transmitter and receiver respectively.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Carl McLelland wrote:
> Good morning guys,
> Thought I'd pass on the latest on how things are going. After letting both the transmitter and my 'lack of patience' cool for a full 24 hours, I went methodically through the manual and tuned up the trnasmitter. When I got to CW, I held the key and got a good signal to the dummy load. I was showing aobut 130 watts output on the meter. For the mike, I ultimately wired up the Astatic hand mike. I wasn't satisfied with the ElectroVoice mike, and the Astatic seems to spec out correctly. I can't whissle, so I had to do the old "test one two three" into the mike, and I was getting a good 'bounce' on the meter, so I would say (1) the mike is working and (2) the transmitter is working. I've cranked the VOX all the way down as recommended in emails, and it appears that feature is out of my life for the time being. I'm getting closer.....
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> Next I tried to tune in the same band on the transmitter that I had on the receiver. All I had was the electronic 'hum' noises you always here, but no incoming signal or noise to peak the frequency band. I thought this odd, so I went back to 'receiver' tuner selection and searched until I found a particularly loud side tone to try and "find" on the transmitter side... Switched back to transmitter (frequency) selection and nothing. Could not find it, couldn't peak the frequency band, couldn't hear ANYTHING except the usual hum of the radio.
>
> Am I doing something wrong, or is there a problem with the transmitter? Have I even presented enough information to debug?
>
> I'm starting to remind myself of my wife..... "There's something wrong with the car". "What is it doing?" "It makes this funny noise". "Please describe that funny noise. Was the car moving or stopped when it did it?" "You know, a funny noise... THAT funny noise". And so on........
>
> To think they refer to these things as "boat anchors"..... Just think, I've got a boat, too! (And I already carry two Danforth anchors on it, don't need another one).
> 73's around, and Merry Christmas.....
> Carl KF7GJO
>
>
>

2792. Re: [DrakeRadio] My Drake Latest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-18 16:17:58 UTC
From: Carl McLelland
Topic: 2789 Message: 2792

Good morning Butch,
Drake R-4C, T-4XC, MN-2000 and MS-4.

Before I fired anything off I removed the covers, lightly blew out the dust and spider webs, etc, "wiggled everything", pulled and wrote down all the tube numbers, etc. I didn't use contact cleaner on it like you recommend; but I'll do that next times the covers are off. Power cord: I was thinking about that because the present cords are not three way grounded plugs. Also, I made a "grounding manifold" out of flat copper strip with a flat strip to each chassis. That goes to a 42" grounding rod driven through the concrete at my feet, so I've grounded the system about as good as humanly possible.

The email that followed your has several things to check; which I will do shortly.

Oh, everything is wired and/or cabled methodically according to the manuals. There's an old saying: "If it ain't broke, don't fix it"..... The next line reads "If you don't know what your doing, follow directions and leave it alone!" I follow both axioms..
Carl KF7GJO

----- Original Message -----
From: Butch Housman
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 18, 2009 7:51 AM
Subject: Re: [DrakeRadio] My Drake Latest

Sounds like some mixed results, at least it has pwr out.

Pardon me for being so dense but this has been a long & (to me) confusing thread + my Windows Explorer has gone belly up so I'm getting all this from a web based browser that I'm not used to.....

What model Drake r u using ? This is the one that has been setting for yrs right ???

When I buy an old radio of unknown condition the FIRST thing I do before ever turning it on is to take it out of the case & thoroughly clean all the switches w/ a gud spray cleaner. DeOxit is the best but Radio Shack works. I prefer a non lube type but sometimes that will make the switches a little hard to work. I spray down the chassis & the tube sockets (non lube type only) & rock all the tubes a little. In the process u can look everything over closely. Look for any obvious broken wires, bad solder joints & especially for previous user modifications. Hams love to fix stuff better than it came from the factory BUT not all of them really know what they're doing ! I know that's hard to believe.....

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know for sure & cleaning the switches & working them all vigorously often saves u from a lot of scratchy, intermittent performance.

As for the issues ur now having.....I gotta think abt that for awhile, I'm not thru my first cuppacoffee yet.

Top o the day to u,
Butch

PS. What radio is it.....what radio is it ????????

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2793. Re: [DrakeRadio] My Drake Latest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-19 15:22:33 UTC
From: Butch Housman
Topic: 2789 Message: 2793

I know little abt twins or how to set them up. Someone else gave u that info recently tho. Without the cleaner I doubt that u acomplished much but maybe u didn't have a problem.

U drove a 48' rod into concrete..... u must be tuff ! ! Having the ground buss is a gud idea. Everything should tie to it w/ a seperate heavy wire.

Gud ground systems have hundrerds of ft of 4/0 wire. I have abt a dozen 8' ground rods & something like 300' of 4/0 + part of it's laid in a trench that I periodically treat w/ epsom salts to improve conductivity. Helps w/ end fed wires & on 160m. Stick to a dipole & it doesn't matter that much.

Keep us informed.
b

[Non-text portions of this message have been removed]

2794. Merry Christmas

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-20 22:35:56 UTC
From: jshea_n4dsp
Topic: 2794 Message: 2794

Wishing all on the list a Merry Christmas and a safe one at that.

john

2795. Re: Aluminum Knob inlay removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-20 22:41:55 UTC
From: drakesforu
Topic: 2779 Message: 2795

Dave, on www.wb4hfn.com there is some detailed graphic instruction on how to change out an inlay.

j

--- In DrakeRadio@yahoogroups.com, "Dave" <WA8KOQ@...> wrote:
>
> What is the best way to remove the aluminum inlay on the main tuning knob on a T-4xc?
> Thanks
> Wink WA8KOQ
>

2796. TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 16:42:29 UTC
From: w5kg
Topic: 2796 Message: 2796

Well the TR4 got here Saturday and is in good shape.
Put it on a veriac and brought it up slowly.

Started checking it out and have found severial problems.
First, "S" meter stays all the way to the right and very low receice audio into head phones. Lamp fuse is ok. (in to antenna receiver/transcver switch in Transceive. I did check V17 with my tester and shows good tube no shorts. However the tube is not very tight in the socket. Socket looks good and I tried to tighten up pin holders and that did help with tube fitting but did nothing to receive signal.
I did not check C135 on V17.

Second, one bad final and no output. I peaked RF tune to max noise and tried to dip plate with no luck.(into dummy load)That is when I noticed the bad final.

On the relay R1, I only see one set of contacts and they are switching to ground in transmit and so that is not the set for receive/transmit.
Can anyone tell me where the other two set of contacts are?

I will forget about transmiter and work on receive first.

Right now I have too may projects going. Building homebrew legal limit amp, have an amp on the bench to repair for a friend, and a RS50M ps apart to repair. The Drake is last on the list sad to say.
Thanks for reading. I will keep all up as time goes on.
73,
Don, W5KG

2797. Mike Woes.. Final.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 17:34:39 UTC
From: Carl McLelland
Topic: 2797 Message: 2797

Good morning guys,
I reached a conclusion with my Drake gear. I'm going to put it on the back burner until I've learned something about electronics and can restore the gear right and have it work according to specs. I look forward to 'vintage' Ham, and one day this gear will breathe new life onto the airwaves.

In the interim I've ordered a new Icom transceiver and antenna so I can get up-n-running and enjoy this new hobby.

I'll likely be more of a 'lurker' than active participant on the site for a while until I actually start working on that T-4XC.

Besides wishing everybody a Merry Christmas and Happy New Year I also wanted to express a hearty Thanks to all of you who listened to my questions and offered solutions to the problems I was encountering. And thanks especially to my good friend Kenny (K6UKZ) who not only gave me the gear but motivated me to get into the hobby.
73's around....
Carl

[Non-text portions of this message have been removed]

2798. Re: [DrakeRadio] Mike Woes.. Final.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 18:05:12 UTC
From: Butch Housman
Topic: 2797 Message: 2798

Sorry it hasn't worked out for the moment. I understand well how u can only take so much at a time. It could still be something fairly simple, keep ur ears open & if u run into some local old salt u might have them take a look at it just for chuckles & grins.

U might also consider sending it to someone who specializes in the repair / restoration of Drake gear. I don't know of anyone personally but I'm sure someone on this list could give u a reference should u decide to do that.

In 1980 I bought a used Knwd 520S, my first rig & it's still in operation. Thru the yrs NUMEROUS boatanchors have passed thru my hands. Some worked, most needed work. They were fun to play w/ for a while & then they mostly went away. As long as u have a gud, dependable radio to keep u on the air it's a whole lot easier & less frustrating to deal w/ the neat old "junk" that comes ur way from time to time.

Sounds like u have a gud plan, hope to hear u "on down the coax".

Butch KA4MIC

[Non-text portions of this message have been removed]

2799. Re: [DrakeRadio] Mike Woes.. Final.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 18:53:11 UTC
From: Kris Merschrod
Topic: 2797 Message: 2799

Good afternoon Carl,

Sometimes a little back burner time will help keep the project warm. Place the "hollow state" handy right next to the solid state so that you can give it TLC and a poke now and then. Inspiration will strike when you least expect it.

ALSO Merry Christmas to all and may the new year bring health and happiness and resonance to all.

Kris (KA2OIG)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Carl McLelland
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 21, 2009 12:34 PM
Subject: [DrakeRadio] Mike Woes.. Final.

Good morning guys,
I reached a conclusion with my Drake gear. I'm going to put it on the back burner until I've learned something about electronics and can restore the gear right and have it work according to specs. I look forward to 'vintage' Ham, and one day this gear will breathe new life onto the airwaves.

In the interim I've ordered a new Icom transceiver and antenna so I can get up-n-running and enjoy this new hobby.

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73's around....
Carl

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2800. Re: TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 22:28:03 UTC
From: w5kg
Topic: 2796 Message: 2800

Let me amend my first thread. I found K2. Where is K1 in the TR4?
Don, W5KG

--- In DrakeRadio@yahoogroups.com, "w5kg" <w5kg@...> wrote:
>
> Well the TR4 got here Saturday and is in good shape.
> Put it on a veriac and brought it up slowly.
>
> Started checking it out and have found severial problems.
> First, "S" meter stays all the way to the right and very low receice audio into head phones. Lamp fuse is ok. (in to antenna receiver/transcver switch in Transceive. I did check V17 with my tester and shows good tube no shorts. However the tube is not very tight in the socket. Socket looks good and I tried to tighten up pin holders and that did help with tube fitting but did nothing to receive signal.
> I did not check C135 on V17.
>
> Second, one bad final and no output. I peaked RF tune to max noise and tried to dip plate with no luck.(into dummy load)That is when I noticed the bad final.
>
> On the relay R1, I only see one set of contacts and they are switching to ground in transmit and so that is not the set for receive/transmit.
> Can anyone tell me where the other two set of contacts are?
>
> I will forget about transmiter and work on receive first.
>
> Right now I have too may projects going. Building homebrew legal limit amp, have an amp on the bench to repair for a friend, and a RS50M ps apart to repair. The Drake is last on the list sad to say.
> Thanks for reading. I will keep all up as time goes on.
> 73,
> Don, W5KG
>

2801. Re: [DrakeRadio] Re: TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 23:00:22 UTC
From: Larry Taft
Topic: 2796 Message: 2801

K1 is in the final cage just in front of the antenna connector. First I would clean tube pins and switch contacts. Then tighten the little screws that hold the circuit cards and tube sockets to the chassis. Many of the screws are ground connections and corrosion makes the connections intermittent.
Larry K2LT
drakerepair.com

w5kg wrote:
> Let me amend my first thread. I found K2. Where is K1 in the TR4?
> Don, W5KG
>
> --- In DrakeRadio@yahoogroups.com, "w5kg" <w5kg@...> wrote:
>
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> Yahoo! Groups Links
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2802. Re: [DrakeRadio] Re: TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 23:09:49 UTC
From: Don Crotsenburg
Topic: 2796 Message: 2802

Thanks Larry, I had found the K1 relay after I removed the RF cage.HI I sprayed a little de-ox in and cleaned a little bit. Reset the finals. Cleaned the pots and switches. I "wiggled" the 12by7 and reciever started working with good audio.
I will check all screws tomorrow.
Again thanks for not thinking I an a dummy for not finding the relay. A blind squirrel finds a nut every now and then.

--- On Mon, 12/21/09, Larry Taft <ltaft@charter.net> wrote:

From: Larry Taft <ltaft@...>
Subject: Re: [DrakeRadio] Re: TR-4 Arived
To: DrakeRadio@yahoogroups.com
Date: Monday, December 21, 2009, 5:00 PM

K1 is in the final cage just in front of the antenna connector. First I
would clean tube pins and switch contacts. Then tighten the little
screws that hold the circuit cards and tube sockets to the chassis.
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w5kg wrote:
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2803. Re: [DrakeRadio] TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-21 23:41:58 UTC
From: Butch Housman
Topic: 2796 Message: 2803

Wowzer, the one I sold worked.....I should DEFINITELY have asked more money !

Gud luck,
b

[Non-text portions of this message have been removed]

2804. Wanted, R-4A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 00:38:23 UTC
From: randyinaura
Topic: 2804 Message: 2804

Hello to the group. I have a T-4X that I'm restoring and I'm now looking for a matching R-4A receiver. I prefer the 13 tube model, but will consider the 11 tube variety. Thanks in advance for any help, tips or leads other than ebay. I prefer to buy from a ham who knows his Drake equipment.

73 de K8HRO - Randy

2805. Re: [DrakeRadio] TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 02:38:51 UTC
From: Garey Barrell
Topic: 2796 Message: 2805

Don -

w5kg wrote:
> Well the TR4 got here Saturday and is in good shape.
> Put it on a veriac and brought it up slowly.
>
>
> On the relay R1, I only see one set of contacts and they are switching to ground in transmit and so that is not the set for receive/transmit.
>
The contact with the wiper grounded IS the T/R control. Grounds several transmitter stages in T and several receive stages in R.

> Can anyone tell me where the other two set of contacts are?
>
All the contacts are on ONE relay. Sounds like a creative mod?? The attached (Low res version) is what it SHOULD look like.
> 73,
> Don, W5KG
>
>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

2806. Re: [DrakeRadio] Re: TR-4 Arived

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 02:44:20 UTC
From: Garey Barrell
Topic: 2796 Message: 2806

Don -

K2 is the relay that switches from SSB to CW mod for the Carrier Oscillator.

K1 is inside the PA cage.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5kg wrote:
> Let me amend my first thread. I found K2. Where is K1 in the TR4?
> Don, W5KG
>
> --- In DrakeRadio@yahoogroups.com, "w5kg"<w5kg@...> wrote:
>
>> Well the TR4 got here Saturday and is in good shape.
>> Put it on a veriac and brought it up slowly.
>>
>> Started checking it out and have found severial problems.
>> First, "S" meter stays all the way to the right and very low receice audio into head phones. Lamp fuse is ok. (in to antenna receiver/transcver switch in Transceive. I did check V17 with my tester and shows good tube no shorts. However the tube is not very tight in the socket. Socket looks good and I tried to tighten up pin holders and that did help with tube fitting but did nothing to receive signal.
>> I did not check C135 on V17.
>>
>> Second, one bad final and no output. I peaked RF tune to max noise and tried to dip plate with no luck.(into dummy load)That is when I noticed the bad final.
>>
>> On the relay R1, I only see one set of contacts and they are switching to ground in transmit and so that is not the set for receive/transmit.
>> Can anyone tell me where the other two set of contacts are?
>>
>> I will forget about transmiter and work on receive first.
>>
>> Right now I have too may projects going. Building homebrew legal limit amp, have an amp on the bench to repair for a friend, and a RS50M ps apart to repair. The Drake is last on the list sad to say.
>> Thanks for reading. I will keep all up as time goes on.
>> 73,
>> Don, W5KG
>>

>

2807. Re: Merry Christmas

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 04:15:47 UTC
From: MIke
Topic: 2794 Message: 2807

Thanks John,
Merry Christmas to you and yours and to everyone on the list also.

Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, "jshea_n4dsp" <jshea109@...> wrote:
>
> Wishing all on the list a Merry Christmas and a safe one at that.
>
> john
>

2808. Merry Christmas

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 14:59:02 UTC
From: wilderness4two
Topic: 2794 Message: 2808

Tnx to everyone in this fine group for the help I've gotten & for the efforts u make in general.

Please pardon me if I sometimes post messages here that could have gone direct to a group member. I'm struggling w/ a web based browser as my Windows email has a grimlin in it & most of the time I can barely figure out the What's What of this whole mess.

Here's wishing all of u a Merry Christmas. May ur tubes glow warmly & may u not trip over some kinda weird impedence bump !

Butch KA4MIC / nnn0zei

2809. TC-2 and CC-1

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 16:26:28 UTC
From: Carl McLelland
Topic: 2809 Message: 2809

Morning Guys!!
May Santa bring us the 'perfect' supply of sunspots and atmospheric heating this coming year!! UPS' tracking says the new radio should arrive today... Can hardly wait.

Question regarding Drake gear....

With the R-4C, T-4XC, MN-2000 (which I will use with the new Icom) and MS-4, I also got a Drake TC-2 "Transmitting Converter" and a Drake CC-1 "Converting Console". There weren't any cables that came with them and I don't think Kenny ever used them. Probably aquired them 'along the way' but never connected them up. They appear used (probably got them second hand) but appear in really great shape.

Can anybody (in 25 words or less... or more if necessary) explain what these two pieces of gear are used for?

OK, that takes care of "today's question".

Was listening to the bands this morning and picked up the weather forecast for the Bahama's on 40 meters! Just in time to turn the TV on and get the local weather forecast. With a high pressure building, those of us in Northern NEvada can look forward to more sub zero lows..... I think I'm ready to try out that "Bahama forecast!".

73's to all and a Merry Christmas.
Carl KF7GJO

[Non-text portions of this message have been removed]

2810. Re: [DrakeRadio] TC-2 and CC-1

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 16:44:27 UTC
From: Garey Barrell
Topic: 2809 Message: 2810

Hi Carl -

The CC-1 is just the cabinet! The "internals" should be a power supply/calibrator, two meter receiving converter, and possibly a six meter and "EXTRA" receiving converter.

The TC-2 is a 2M transmitting converter.

MANY cables are required to set these up, which may be why "they were never used"!

Any of the T-4X(any) or TR-4(any) must be modified (easy) to use the TC-2. IF your T-4XC transmitter has been modified, there will be three extra RCA phono jacks on the rear panel, two in the center (unlabeled or marked "A" and "B") and one on the right end of the rear panel (unlabeled or marked "EXC OUT").

I don't think I made the "25 word limit", but ...

Merry Christmas!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Carl McLelland wrote:
>
> With the R-4C, T-4XC, MN-2000 (which I will use with the new Icom) and MS-4, I also got a Drake TC-2 "Transmitting Converter" and a Drake CC-1 "Converting Console". There weren't any cables that came with them and I don't think Kenny ever used them. Probably aquired them 'along the way' but never connected them up. They appear used (probably got them second hand) but appear in really great shape.
>
> Can anybody (in 25 words or less... or more if necessary) explain what these two pieces of gear are used for?
>
>
>

2811. Re: Mike Woes.. Final.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-22 18:53:16 UTC
From: jb
Topic: 2797 Message: 2811

Hi Carl,
Like you, I have been lurking and gleaning info off here for some time now. Don't have the technical knowledge or experience to contribute. I have been watching, copying and catagorizing everything I can about fixes and troubleshooting to help me learn.

Never was a very good book learner. Hands-on practical experience, mine or observing others, always drives things home better for me. But keeping track of this and the other Drakelist has really inspired me to study the electronics at a level higher than required for my General ticket. Picked up the Extra Class study book. I have to confess that part is going pretty slow. =)

Have several Drake rigs, for historical reasons and to learn from as well. Haven't touched the ones that need work yet either except for tuning and tubes but seeing the progression from model to model has been a very interesting history lesson.

Thanks everyone on the group. Especially those who ask questions. =)
Its been like having a elmer throwing you lessons to grow on on a regular basis.

Merry Christmas all. Safe travels and joyful times.

God bless
73
jb
kgbiw

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Good morning guys,
> I reached a conclusion with my Drake gear. I'm going to put it on the back burner until I've learned something about electronics and can restore the gear right and have it work according to specs. I look forward to 'vintage' Ham, and one day this gear will breathe new life onto the airwaves.
>
> In the interim I've ordered a new Icom transceiver and antenna so I can get up-n-running and enjoy this new hobby.
>
> I'll likely be more of a 'lurker' than active participant on the site for a while until I actually start working on that T-4XC.
>
> Besides wishing everybody a Merry Christmas and Happy New Year I also wanted to express a hearty Thanks to all of you who listened to my questions and offered solutions to the problems I was encountering. And thanks especially to my good friend Kenny (K6UKZ) who not only gave me the gear but motivated me to get into the hobby.
> 73's around....
> Carl
>

> [Non-text portions of this message have been removed]
>

2812. TR-4 on the air

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-23 15:47:46 UTC
From: w5kg
Topic: 2812 Message: 2812

After doing all that was suggested. I made sure all ground screws were tight and clean. I pulled all tubes and reset them. I cleaned with de-oxit all relays, switched, pots. Then I checked and set the bias and after that I put the rig on the air.

On transmit the out put is about 130w on 75 meters. I will check on other bands today.

The receiver is a very good one. This is the first Drake I have owned and I like the receiver better than some of the Kenwood TS820's I have had over the years.

I may send it off to have it re-alined at some point. However I am going to use as is for a while to make sure all else is ok.

As far as the other AC3 ps I have, I put it on my variac yesterday and I will give it a test today sometime.

I would like to thank all who made suggestions and helped in getting this rig back on the air.

So let me wish everyone a very Merry Christmas and Happy Holidays.
73 es
Don, W5KG

2813. RE: [DrakeRadio] I need some manuals in PDF format

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-23 18:44:10 UTC
From: Jimmy Bundrick
Topic: 2768 Message: 2813

I do not use offnet e-mail due to all the spam I get you can send it to bundricjo@... or this one

To: DrakeRadio@yahoogroups.com
From: carlynneracing@...
Date: Wed, 16 Dec 2009 12:15:52 -0800
Subject: Re: [DrakeRadio] I need some manuals in PDF format

Jimmy,
Put your offnet email address on here and I'll email the MN-2700 manual in pdf format to ya..
Carl
carlynneracing@...

----- Original Message -----
From: JimmyB
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, December 16, 2009 11:30 AM
Subject: [DrakeRadio] I need some manuals in PDF format

One for TR7
one for MN2700 Matching network

[Non-text portions of this message have been removed]

_____
Hotmail: Powerful Free email with security by Microsoft.
http://clk.atdmt.com/GBL/go/171222986/direct/01/

[Non-text portions of this message have been removed]

2814. Looking for Manual for DRAKE TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-23 20:09:48 UTC
From: Hans-Joachim Empel
Topic: 2814 Message: 2814

Hello Folks ,
i am looking for a DRAKE TR-7 Manual as PDF - File.
Has anybody a manual available for me ????.
I have a DRAKE TR-7 and will maintain this Unit and also do some additional
Mods.

My mailadress : hajoempel@...

Kind Regards and Marry Christmas from Germany

Joachim
DL2388RB

2815. Re: Looking for Manual for DRAKE TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-23 20:59:20 UTC
From: dl7maj
Topic: 2814 Message: 2815

Dr Hajo,

have a look at
http://www.mods.dk/manual.php?brand=drake
Note: You can download only one manual per 4 days.
vy73, Stefan, DL7MAJ

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Hello Folks ,
> i am looking for a DRAKE TR-7 Manual as PDF - File.
> Has anybody a manual available for me ????.
> I have a DRAKE TR-7 and will maintain this Unit and also do some additional
> Mods.
>
> My mailadress : hajoempel@...
>
> Kind Regards and Marry Christmas from Germany
>
> Joachim
> DL2388RB
>

2816. R4 S/N Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-23 23:24:37 UTC
From: Dave
Topic: 2816 Message: 2816

I have an R4 with a S/N of 1419 and am wondering if that puts it as being manufactured in 1964? WB4HFN's serial number database only lists R4A's starting at year 1965. Does anyone have one they bought new that could tell me or were they all made in 1964 before they came out with the R4A?
Thanks in advance and very Merry Christmas to all the list and thanks for all the help this year.
WINK
WA8KOQ

2817. TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 03:26:43 UTC
From: captcurt2000
Topic: 2817 Message: 2817

Good Evening All and Happy Holidays:

Getting an early TR7 sorted out here. Have a couple of questions.

Are there any differences in the service manual versions? My TR7 is Ser 1786..so late 78. The Service manual I have that came with the TR is dated OCtober 1980 and says printed with revisions. I've noticed a couple of minor differences in the look of a couple of boards.

Unit seems to work after a fashion. WHen rcvd, the 10V adjustment was sitting 1t 9.77 and the passbands and rx/tx freqs were obviously off. So I bit the bullet and went thru the whole process.

Also noticed that the ALC light stayed on all the time..this has now changed and the ALC comes on at key down and then gradually dies out after a few seconds in CW. IS this normal? Bright lit at start then dim and then out.

Also, The unit is tripping the PS-7 over-current protection at about 100W showing on the internal meter. I watched the 13.6V incoming and it drops to about 13.3 at 100W. Haven't actually monitored the current but will do that next.

In SSB, the over-current in the PS-7 trips immediately, perhaps one increment of the mic gain control and no ALC showing at all--just trips.

Other than this, the unit works.

What is the secret to the way the board pins are numbered? ie the 5645 BFO freq is to be monitored from pin 40 of the PBT board according to the service manual--there are only 31 pins..?

This unit is well equipped with three optional filters, AUX-7 board for WARC/MARS, NB, and DR.

Thanks for any insights. I'm sure I'll find more.

Curt
KU8L

2818. Re: [DrakeRadio] TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 06:33:02 UTC
From: Jim Shorney
Topic: 2817 Message: 2818

Welcome to the world of TR-7 (otherwise known as TR-&), Curt! Comments inserted below.

On Thu, 24 Dec 2009 03:26:43 -0000, captcurt2000 wrote:

>Are there any differences in the service manual versions? My TR7 is Ser 1786..so late 78. The Service manual I have that came with the TR is dated OCtober 1980 and says printed with revisions. I've noticed a couple of minor differences in the look of a couple of boards.

There were several minor revisions, and one major revision, to the 2nd IF/Audio board. The major revision being a redesign of the product detector. The revisions may or may not be reflected in your manual copy. There is some debate as to whether the version 2 board is really more deirable to have in practice, or not. Some details on the minor revisions can be found on my page at:

http://radiojim.exofire.net/pages/TR7_2IFA.html

The factory changes to later version 1 boards are desirable, and should be made if you don't have them.

The TX predriver board was also completely redesigned, with the version 2 predriver board being an improvement. Having said that, if you have a version 1 predriver and it seems to be working fine, don't worry about it. You're one of the lucky ones. If your radio has ever been to Drake for service in it's lifetime, it was probably upgraded to the version 2 predriver.

>Also noticed that the ALC light stayed on all the time..this has now changed and the ALC comes on at key down and then gradually dies out after a few seconds in CW. IS this normal? Bright lit at start then dim and then out.

The ALC light should stay on, if you increase carrier level until you are into ALC. (Note, for cleanest CW signal, you should normally operate just below ALC). Are you noticing any falloff in power output? If so, you may have a problem in the PA deck. Possibly bad predriver or driver transistors. Refer to the DrakeMods document for version 2 predriver overheating issues (did I say version 2 was an improvement?). If you get decent power output at all, your PA transitors are probably good. There is a nice article on wb4hfn.com on reworking the TR-7 PA deck to resolve power falloff, predriver overheating, and low power on 10 Meters issues. Also, see my comments on the Drakelist online forum on rebuilding my own PA deck based on the article on wb4hfn.com.

Assuming the PA deck is OK, you may have a problem in the ALC circuit or the wattmeter circuit (where the ALC gets it's control signal from). It's a pretty simple circuit, really, and should be easy to troubleshoot. The W2VJN ALC mod, published by GW4ALG at http://www.alg.myzen.co.uk/radio/tr7/mods.htm#18 , is worthwhile to apply while you are there (afrer it is working properly, of course). Some people like to point to the PIN diodes in the T/R switching as

the root of many evils, so you might want to check them as well. Refer again to wb4hfn.com for testing info.

>Also, The unit is tripping the PS-7 over-current protection at about 100W showing on the internal meter. I watched the 13.6V incoming and it drops to about 13.3 at 100W. Haven't actually monitored the current but will do that next.

Where are you measuring at, internal to the radio or in the PS-7? If in the radio, you could have dirty or worn connections in the Jones plug on the end of the cable. Another possibility is the main filter caps, or dirty edge connections on the regulator board. GW4ALG also has a nice writeup on PS-7 problems, here: http://www.alg.myzen.co.uk/radio/tr7/mods.htm#16 . The whole GW4ALG page is recommended reading, as are the many articles at wb4hfn.com.

>In SSB, the over-current in the PS-7 trips immediately, perhaps one increment of the mic gain control and no ALC showing at all--just trips.

I would suggest cleaning the adjustment post in the PS-7, and resetting them. A lot of dirt can get drawn in over the years. A fan is also recommended on the PS-7; it's job appears to be not so much to cool the heatsinks and transistors, but rather the main filter caps. An oft-neglected point is that capacitors get hot too.

>What is the secret to the way the board pins are numbered? ie the 5645 BFO freq is to be monitored from pin 40 of the PBT board according to the service manual--there are only 31 pins..?

It's confusing. I have to figure it out all over again whenever I do one. Some of the points are labelled on the bottom of the board, and once you find one, use it as a reference to find the others. IIRC the BFO is at or near one end, and is marked. A couple of the critical RF points have coax connecting to them, so they are easy to spot. To make it easier, once I found the correct points, i labelled hem with a fine point Sharpie and soldered small loops of wire in place for test points in my radio. At least one of the points, IIRC, has a fairly low level signal and requires a sensitive frequency counter to measure. I also found that counter loading can be miminized by measuring through a resistor of 200 to 500 Ohms - YMMV.

>This unit is well equipped with three optional filters, AUX-7 board for WARC/MARS, NB, and DR.

Nice score. Keep it!

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2819. Re: [DrakeRadio] TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 07:13:24 UTC
From: Jim Shorney
Topic: 2817 Message: 2819

On Thu, 24 Dec 2009 00:33:02 -0600, Jim Shorney wrote:

>
>http://radiojim.exofire.net/pages/TR7_2IFA.html

I just added a couple of very important pictures that I completely forgot about
to the above page.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2820. Re: [DrakeRadio] TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 07:17:40 UTC
From: Jim Shorney
Topic: 2817 Message: 2820

On Thu, 24 Dec 2009 00:33:02 -0600, Jim Shorney wrote:

>
>I would suggest cleaning the adjustment post in the PS-7,

Darn. I meant adjustment POTS. And I proofed that email twice.

Must be bedtime.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2821. Re: [DrakeRadio] R4 S/N Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 15:28:05 UTC
From: Butch Housman
Topic: 2816 Message: 2821

If u google around for a while u can find some lists that will give u approx. dates by serial #....sorry I don't have a link.

b

[Non-text portions of this message have been removed]

2822. Re: [DrakeRadio] TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 17:26:00 UTC
From: Garey Barrell
Topic: 2817 Message: 2822

Jim covered most all your questions.

The Pins on the TR-7 boards are numbered per the parent board. If the unit is upside down, front panel toward you, the pins are numbered 1 - 40 from right to left. ALL pin locations are counted, even blanks.

So Pin 40 of the PBT board is the last terminal, closest to the left side as described above.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> Welcome to the world of TR-7 (otherwise known as TR-&), Curt! Comments
> inserted below.
>
> On Thu, 24 Dec 2009 03:26:43 -0000, captcurt2000 wrote:
>
>
>> What is the secret to the way the board pins are numbered? ie the 5645 BFO freq is to be monitored from pin 40 of the PBT board according to the service manual--there are only 31 pins..?
>>
>

2823. Re: [DrakeRadio] TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 17:36:54 UTC
From: Jim Shorney
Topic: 2817 Message: 2823

Thanks for clarifying that better, Garey. I didn't have a radio or service manual open in front of me at the time, I was operating from memory on that one.

73

-Jim

On Thu, 24 Dec 2009 11:26:00 -0600, Garey Barrell wrote:

>Jim covered most all your questions.
>
>The Pins on the TR-7 boards are numbered per the parent board. If the
>unit is upside down, front panel toward you, the pins are numbered 1 -
>40 from right to left. ALL pin locations are counted, even blanks.
>
>So Pin 40 of the PBT board is the last terminal, closest to the left
>side as described above.
>
>73, Garey - K4OAH
>St Charles, IL
>
>Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
><www.k4oah.com>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2824. Re: TR-& Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 18:36:23 UTC
From: captcurt2000
Topic: 2817 Message: 2824

Thanks Jim for the links and all..just what I needed as I get "institutionalized" into the TR-7. And thanks Garey..that was one of the schemes I suspected but have not found a single thing in official print about the pin numbering.

There are no numbers or other notations on this parent board--

I cleaned up the PS7 a bit this AM and found the large diode stud mount to the floor loose. This fixed the instant trips on SSB. I've adjusted the current pot up somewhat and it will run now continuously at 100W. (I'm so not used to monitoring ALC)

The main filter caps in the PS have that "little Debbie" smell but I see no evidence of venting or leakage, it is quite apparent--so I will replace the two filters.

Want to try the HFN method for setting the passband voltages/frequencies since I had a difficult time getting stable readings on my HP counter at the 5645 point.

Now that the PS is holding better, I can redo the ALC settings also. Light still comes on bright at key-up and then slowly reduces to be off or reflect the voice peak as it should.

I like the way this rig sounds--need a DR7 Jumper board, and a set of extenders and I'm sure it is close to healthy. Next is an RV-7 so I can work split.

Still have a pair of B twins and a TR3 to get going also. Too much hobby--not enough time!

Merry Christmas and Happy Holidays to All.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
>
> Thanks for clarifying that better, Garey. I didn't have a radio or service
> manual open in front of me at the time, I was operating from memory on that
> one.
>
> 73
>
> -Jim
>
> On Thu, 24 Dec 2009 11:26:00 -0600, Garey Barrell wrote:
>
> >Jim covered most all your questions.
> >
> >The Pins on the TR-7 boards are numbered per the parent board. If the
> >unit is upside down, front panel toward you, the pins are numbered 1 -
> >40 from right to left. ALL pin locations are counted, even blanks.

> >
> >So Pin 40 of the PBT board is the last terminal, closest to the left
> >side as described above.
> >
> >73, Garey - K4OAH
> >St Charles, IL
> >
> >Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
> ><www.k4oah.com>
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2825. Drake TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-24 20:00:55 UTC
From: Hans-Joachim Empel
Topic: 2825 Message: 2825

Hello Folks ,
one small question : i will regulate the Output Power of my TR-7 from 10 Watts to max. Power.
Is this possible and has anybody some idear how to do this ?????
All idears are welcome.

Thanks and Marry Christmas and a Happy New Year 2010
fro Germany

Regards
Joachim

[Non-text portions of this message have been removed]

2826. AC-4R Completed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-25 22:18:13 UTC
From: russellhulett
Topic: 2826 Message: 2826

Well, I just upgraded my AC-4 with the kit from the heath kit shop. Everything worked as advertised and now am relaxed not worrying about bias failure to my T-4XB.

Highly recommend the kit for anyone interested in avoiding problems from 40 yr old caps failing. Mine cost less than a pair of 6JB6 finals.

73, Curt KB5JO

2827. DRAKE 7077 Dynamic Microfone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-25 23:10:31 UTC
From: Hans-Joachim Empel
Topic: 2827 Message: 2827

Hello Folks ,
i have a DRAKE 7077 Dynamic Microfone.
Its not original , some modifications are done.
Has anybody a original electric diagram as PDF - File available ?????

Kind Regards from Germany
Joachim

[Non-text portions of this message have been removed]

2828. Re: [DrakeRadio] DRAKE 7077 Dynamic Microfone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-25 23:46:35 UTC
From: Jim Shorney
Topic: 2827 Message: 2828

On Sat, 26 Dec 2009 00:10:31 +0100, Hans-Joachim Empel wrote:

>i have a DRAKE 7077 Dynamic Microfone.
>Its not original , some modifications are done.
>Has anybody a original electric diagram as PDF - File available ?????

Joachim,

Look here:

http://www.dproducts.be/drake_museum/7077.htm

It is an OEM Astatic desk mic, in case you want to know. :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2829. Re: [DrakeRadio] DRAKE 7077 Dynamic Microfone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-25 23:53:46 UTC
From: Jim Shorney
Topic: 2827 Message: 2829

On Fri, 25 Dec 2009 17:46:35 -0600, Jim Shorney wrote:

>http://www.dproducts.be/drake_museum/7077.htm

Looking at that diagram, it may not be 100% accurate for the Drake OEM version.
If need be, I have one I can open up and snap some pictures of.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2830. Re: [DrakeRadio] DRAKE 7077 Dynamic Microfone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-26 00:05:24 UTC
From: Hans-Joachim Empel
Topic: 2827 Message: 2830

Its be fine , i have only to take out the stupid electronic clipper , than
the Mike is in original conditions.
Thanks for the fast response.
Regards
Joachim DL2388RB

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, December 26, 2009 12:53 AM
Subject: Re: [DrakeRadio] DRAKE 7077 Dynamic Microfone

> On Fri, 25 Dec 2009 17:46:35 -0600, Jim Shorney wrote:
>
>>http://www.dproducts.be/drake_museum/7077.htm
>
>
> Looking at that diagram, it may not be 100% accurate for the Drake OEM
> version.
> If need be, I have one I can open up and snap some pictures of.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> "Give a man a URL, and he will learn for an hour; teach him to Google, and
> he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>

2831. Re: AC-4R Completed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-26 00:36:03 UTC
From: w5kg
Topic: 2826 Message: 2831

That is a fun kit to put together and install. I have built one for Heathkit 23A. Worked great. I will be doing that to the AC-4 and the AC-3 I have. I will do the AC-4 first.
Good luck
Don, W5KG

--- In DrakeRadio@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Well, I just upgraded my AC-4 with the kit from the heath kit shop. Everything worked as advertised and now am relaxed not worrying about bias failure to my T-4XB.
>
> Highly recommend the kit for anyone interested in avoiding problems from 40 yr old caps failing. Mine cost less than a pair of 6JB6 finals.
>
> 73, Curt KB5JO
>

2832. Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-26 18:17:24 UTC
From: drakesforu
Topic: 2832 Message: 2832

Suddenly my R-4B has distorted audio. At first I thought it may be overload so I cut back on the RF Gain but the distortion is still there even with S5 ssb signals and the cw notes just don't sound crisp. There is a raspy sound to it even when adjusting the passband which has no effect on the quality. I want to say this but then I don't think its accurate but it is like the AVC is off and the receiver is being overdriven. Tube?
Thanks.

john

2833. Re: [DrakeRadio] Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-26 21:54:46 UTC
From: Richard Knoppow
Topic: 2832 Message: 2833

----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, December 26, 2009 10:17 AM
Subject: [DrakeRadio] Distorted Audio

> Suddenly my R-4B has distorted audio. At first I thought
> it may be overload so I cut back on the RF Gain but the
> distortion is still there even with S5 ssb signals and the
> cw notes just don't sound crisp. There is a raspy sound to
> it even when adjusting the passband which has no effect on
> the quality. I want to say this but then I don't think its
> accurate but it is like the AVC is off and the receiver is
> being overdriven. Tube?
> Thanks.
>
> john
>
>
Sounds more like a leaky coupling cap in the audio
somewhere.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2834. Re: [DrakeRadio] Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 02:43:43 UTC
From: Garey Barrell
Topic: 2832 Message: 2834

John -

Check the voltages on the 6EH5 AF OUTPUT tube. Possibly cathode
resistor gone up in value. Also possible dried up electrolytic that is
used to decouple the low voltage supply to the AF PREAMP stage.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> Suddenly my R-4B has distorted audio. At first I thought it may be overload so I cut back on the RF Gain but the distortion is still there even with S5 ssb signals and the cw notes just don't sound crisp. There is a raspy sound to it even when adjusting the passband which has no effect on the quality. I want to say this but then I don't think its accurate but it is like the AVC is off and the receiver is being overdriven. Tube?
> Thanks.
>
> john
>
>

2836. Re: Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 12:20:41 UTC
From: drakesforu
Topic: 2832 Message: 2836

Garey,
V7 6EH5 voltages check out Except for pin 1 which is supposed to have 4.5V dc and I am showing zero.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Check the voltages on the 6EH5 AF OUTPUT tube. Possibly cathode
> resistor gone up in value. Also possible dried up electrolytic that is
> used to decouple the low voltage supply to the AF PREAMP stage.
>
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2837. Re: [DrakeRadio] Re: Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 15:31:28 UTC
From: Richard Knoppow
Topic: 2832 Message: 2837

```
----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, December 27, 2009 3:09 AM
Subject: [DrakeRadio] Re: Distorted Audio

> Garey,
> I checked all the voltages on V7 6EH5 check out except for
> pin 1 which is supposed to have 4.5V DC but on mine it is
> zero volts.
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell
> <k4oah@...> wrote:
>>
>> John -
>>
>> Check the voltages on the 6EH5 AF OUTPUT tube. Possibly
>> cathode
>> resistor gone up in value. Also possible dried up
>> electrolytic that is
>> used to decouple the low voltage supply to the AF PREAMP
>> stage.
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>
Sounds like the cathode by-pass cap (C-176) is shorted.
Just lifting one end will tell you.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

2838. Re: [DrakeRadio] Re: Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 15:56:58 UTC
From: Garey Barrell
Topic: 2832 Message: 2838

John -

OK. Sounds like the electrolytic, (C176?) from Pin 1 to ground is
shorted. That would do it!. May also have a bad 6EH5 if it's been run
that way too long.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> Garey,
> I checked all the voltages on V7 6EH5 check out except for pin 1 which is supposed to
have 4.5V DC but on mine it is zero volts.
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> John -
>>
>> Check the voltages on the 6EH5 AF OUTPUT tube. Possibly cathode
>> resistor gone up in value. Also possible dried up electrolytic that is
>> used to decouple the low voltage supply to the AF PREAMP stage.
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>

2839. Microfone for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 18:13:42 UTC
From: Hans-Joachim Empel
Topic: 2839 Message: 2839

Hello Folks ,
i was looking for an original Desktop - microfone from Drake , but its not easy to find and if there is one available its modified for Japenese rigs (they are using low impedance mics.)

The price for an original one is for me too expensive or i have to rebuild the mike to the original.

in my sparpart box i found a microfone from the american Manufactorer Rauland .

Its a Rauland Type 1294 Desktop Mike.

On the Metall Bottom Plate i found following : Modell No.877HL THE ASTATIC CORP. Conneaut OHIO USA

The Mike looks like the original DRAKE Mike : DRAKE 7077 Dynnamic.

Has anybody of the experianced TR - 7 Operators any Idear ore Experiance with this mike.

I tooked also in the atachment the pdf - file for this kind of Rauland Mike.

Thanks for any Information and Help for a Drake TR - 7 Newcomer.

Kind regards from Germany

Joachim
DL2388RB

[Non-text portions of this message have been removed]

2840. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 19:43:15 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 2840

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

2841. Re: [DrakeRadio] Microfone for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 20:18:42 UTC
From: Jim Shorney
Topic: 2839 Message: 2841

Joachim,

I should think it would work fine. I believe the 7077 is simply a high-impedance only version of that microphone. You will probably want to use it in high imedance mode, and you may need to connect it to the high level input pin on the TR-7 mic connector. I don't know which pin mine uses, but I can check. It has only been used with a TR-7 throughout it's life, so it should be 100% original. It should have a very good, natural sound to it. I found that my 7077 works very well for casual operating and rag chewing, although it seems that some of the ceramic mics that I have are more suitable for DXing and contesting. Note that you may need to modify the wiring internally so the element is "on" all the time if you like to operate VOX.

73

-Jim
NU0C

On Sun, 27 Dec 2009 19:13:42 +0100, Hans-Joachim Empel wrote:

>Hello Folks ,
>i was looking for an original Desktop - microfone from Drake , but its not easy to find and if there is one available its modified for Japenese rigs (they are using low impedance mics.)

>The price for an original one is for me too expensive or i have to rebuild the mike to the original.

>in my sparpart box i found a microfone from the american Manufactorer Rauland .

>Its a Rauland Type 1294 Desktop Mike.

>On the Metall Bottom Plate i found following : Modell No.877HL THE ASTATIC CORP. Conneaut OHIO USA

>The Mike looks like the original DRAKE Mike : DRAKE 7077 Dynnamic.

>Has anybody of the experianced TR - 7 Operators any Idear ore Experiance with this mike.

>I tooked also in the atachment the pdf - file for this kind of Rauland Mike.

>Thanks for any Information and Help for a Drake TR - 7 Newcomer.

>Kind regards from Germany

>Joachim
>DL2388RB

>[Non-text portions of this message have been removed]

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2842. Re: c176

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 20:46:14 UTC
From: Garey Barrell
Topic: 2842 Message: 2842

John -

Cool!

The AF OUT stage is operated in Class A. This means that the tube should be biased to about the middle of the linear portion of it's range. With the cathode biased at 4.5V and the grid near 0V, the grid is effectively biased 4.5V negative in relation to the cathode, limiting the plate current of the tube to the proper level. With the cathode at 0V, the tube is essentially "turned on hard", with the only limiting factor the primary DC resistance of the output transformer and R43. It would be a good idea to check R43 to be sure it has not been damaged by overload.

With C176 out of the circuit, the AF output power is divided between the output transformer and R44. When C176 is added, it bypasses the audio signal across R44 so ALL the AF goes to the output transformer. The value of C176 also affects the frequency response of the amplifier somewhat, because as the capacitive reactance goes up with decreasing frequency it reduces the bypass effect, so the low frequency response rolls off.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

jshea wrote:
> That was it Garey! Disconnected it and its playing very well with no
> distortion. The audio did not decrease much at all. I do not have that
> "overload" or the signals sounding like there was RF in the audio and
> most of the signals were 40 over 9. But now the signals are much more
> in range like they should be. The voltage did go to 4.5 V.
>
> With the shorted capacitor it was like the tube was running wide open.
> To put a conclusion on this can you explain why this capacitor when
> shorted would cause it to draw more current and run wide open? If not
> thanks for the help and learning experience.
>
> john
>
>
> The tube appears to be FB.
> ----- Original Message ----- From: "Garey Barrell" <k4oah@...>
> To: "drakesforu" <jshea109@...>

> Sent: Sunday, December 27, 2009 12:17 PM
> Subject: Re: c176
>
>
>> John -
>>
>> If you remove or just lift one end of the cap, the voltage should
>> rise to ~4.5V. The receiver will work without it, but the AF gain
>> will be reduced somewhat. I would also check the value of R44 for
>> 120 ohms. With C176 shorted, the 6EH5 is biased on, and would draw
>> more than normal current. It may have been damaged, but possibly ok.
>> Tubes are tough! :-)
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> drakesforu wrote:
>>> Thanks Garey,
>>> if i unsolder one end of this cap and take a reading what would I
>>> expect to see?
>>>
>>> Could I run the rcvr without this cap until I can purchase one? What
>>> would be the effect?
>>>
>>> john
>>>
>>>
>>>
>
>

2843. Re: [DrakeRadio] Microfone for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 20:51:01 UTC
From: Garey Barrell
Topic: 2839 Message: 2843

Don 't forget that all TR-7s will work with either hi or lo impedance microphones.!

Early units needed a resistor jumpered in or out internally. Later models just used one of the four microphone plug leads for hi and another for lo. I'm away from home and don't have my reference material so can't specify which pin is which, but it is in the Operator's Manual.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> Joachim,
>
> I should think it would work fine. I believe the 7077 is simply a high-impedance only version of that microphone. You will probably want to use it in high imedance mode, and you may need to connect it to the high level input pin on the TR-7 mic connector. I don't know which pin mine uses, but I can check. It has only been used with a TR-7 throughout it's life, so it should be 100% original. It should have a very good, natural sound to it. I found that my 7077 works very well for casual operating and rag chewing, although it seems that some of the ceramic mics that I have are more suitable for DXing and contesting. Note that you may need to modify the wiring internally so the element is "on" all the time if you like to operate VOX.
>
> 73
>
> -Jim
> NU0C
>
> On Sun, 27 Dec 2009 19:13:42 +0100, Hans-Joachim Empel wrote:
>
>
>> Hello Folks ,
>> i was looking for an original Desktop - microfone from Drake , but its not easy to find and if there is one available its modified for Japenese rigs (they are using low impedance mics.)
>>
>
>> The price for an original one is for me too expensive or i have to rebuild the mike to the original.
>>
>
>> in my sparpart box i found a microfone from the american Manufactorer Rauland .

>>
>
>> Its a Rauland Type 1294 Desktop Mike.
>>
>
>> On the Metall Bottom Plate i found following : Modell No.877HL THE ASTATIC CORP.
Conneaut OHIO USA
>>
>
>> The Mike looks like the original DRAKE Mike : DRAKE 7077 Dynnamic.
>>
>
>> Has anybody of the experianced TR - 7 Operators any Idear ore Experiance with this mike.
>>
>
>> I tooked also in the atachment the pdf - file for this kind of Rauland Mike.
>>
>
>> Thanks for any Information and Help for a Drake TR - 7 Newcomer.
>>
>
>> Kind regards from Germany
>>
>
>> Joachim
>

2844. Re: [DrakeRadio] Microfone for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 21:26:49 UTC
From: Hans-Joachim Empel
Topic: 2839 Message: 2844

Thanks for the fast Response , i will figure out.
Regards
Joachim
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, December 27, 2009 9:51 PM
Subject: Re: [DrakeRadio] Microfone for TR-7

> Don 't forget that all TR-7s will work with either hi or lo impedance
> microphones.!
>
> Early units needed a resistor jumpered in or out internally. Later
> models just used one of the four microphone plug leads for hi and
> another for lo. I'm away from home and don't have my reference material
> so can't specify which pin is which, but it is in the Operator's Manual.
>
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Jim Shorney wrote:
>> Joachim,
>>
>> I should think it would work fine. I believe the 7077 is simply a
>> high-impedance only version of that microphone. You will probably want to
>> use it in high imedance mode, and you may need to connect it to the high
>> level input pin on the TR-7 mic connector. I don't know which pin mine
>> uses, but I can check. It has only been used with a TR-7 throughout it's
>> life, so it should be 100% original. It should have a very good, natural
>> sound to it. I found that my 7077 works very well for casual operating
>> and rag chewing, although it seems that some of the ceramic mics that I
>> have are more suitable for DXing and contesting. Note that you may need
>> to modify the wiring internally so the element is "on" all the time if
>> you like to operate VOX.
>>
>> 73
>>
>> -Jim
>> NU0C
>>
>> On Sun, 27 Dec 2009 19:13:42 +0100, Hans-Joachim Empel wrote:

>>
>>
>>> Hello Folks ,
>>> i was looking for an original Desktop - microfone from Drake , but its
>>> not easy to find and if there is one available its modified for Japenese
>>> rigs (they are using low impedance mics.)
>>>
>>
>>> The price for an original one is for me too expensive or i have to
>>> rebuild the mike to the original.
>>>
>>
>>> in my sparpart box i found a microfone from the american Manufactorer
>>> Rauland .
>>>
>>
>>> Its a Rauland Type 1294 Desktop Mike.
>>>
>>
>>> On the Metall Bottom Plate i found following : Modell No.877HL THE
>>> ASTATIC CORP. Conneaut OHIO USA
>>>
>>
>>> The Mike looks like the original DRAKE Mike : DRAKE 7077 Dynnamic.
>>>
>>
>>> Has anybody of the experianced TR - 7 Operators any Idear ore Experiance
>>> with this mike.
>>>
>>
>>> I tooked also in the atachment the pdf - file for this kind of Rauland
>>> Mike.
>>>
>>
>>> Thanks for any Information and Help for a Drake TR - 7 Newcomer.
>>>
>>
>>> Kind regards from Germany
>>>
>>
>>> Joachim
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

2845. Re: Distorted Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 22:47:14 UTC
From: drakesforu
Topic: 2832 Message: 2845

Thanks Richard. It was C176. Appreciate the private email's
also.

john

> >
> Sounds like the cathode by-pass cap (C-176) is shorted.
> Just lifting one end will tell you.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

2846. Re: [DrakeRadio] Microfone for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-27 23:21:15 UTC
From: Jim Shorney
Topic: 2839 Message: 2846

The way I have always understood it, the choices were: pin 1 - high impedance, or pin 4 - (with the 470K added to the back side of the mic jack in all but the earliest production units) high level high impedance. The 680 Ohm resistor on the TX Exciter board was a user option that had to be jumpered in to use low impedance mics. My service manual seems to confirm this, in fact stating that the jumper is "not installed at the factory" and is "seldom required for proper operation". Looking at the TX Exciter board schematic, the first thing that the mic sees (after the dangling 680 Ohm resistor) is 150K in series.

This edition of the service manual is an original 1978, and is marked as having accompanied TR-7 serial #8680. I have a later revision (copy) downstairs in the lab, will check it later.

73

-Jim

On Sun, 27 Dec 2009 14:51:01 -0600, Garey Barrell wrote:

>Don 't forget that all TR-7s will work with either hi or lo impedance
>microphones.!
>
>Early units needed a resistor jumpered in or out internally. Later
>models just used one of the four microphone plug leads for hi and
>another for lo. I'm away from home and don't have my reference material
>so can't specify which pin is which, but it is in the Operator's Manual.
>
>73, Garey - K4OAH
>St Charles, IL

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2847. 4-Line Recievers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 02:24:56 UTC
From: k5myj
Topic: 2847 Message: 2847

I'd like to hear opinions of 4-Line receivers. I am currently considering buy a R4A.

I am currently a Heath SB twin owner and a friend has interested me in trying a Drake 4-Line pair. I have no interest in tranceivers. At least not at this time.

Bob Macklin
K5MYJ
Seattle, Wa.

2848. Re: [DrakeRadio] 4-Line Recievers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 06:53:14 UTC
From: Jim Shorney
Topic: 2847 Message: 2848

On Mon, 28 Dec 2009 02:24:56 -0000, k5myj wrote:

>
>I'd like to hear opinions of 4-Line receivers.

Simply put, magic in a little black box. Among the most "listenable" radios ever made, you won't get a headache from one.

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim(dot)exofire(dot)net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2849. Re: Drake TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 13:30:06 UTC
From: dl7maj
Topic: 2825 Message: 2849

Hi Joachim,
use the controls for CARRIER and MIC GAIN.
The ALC won´t operate at lower output levels, but that´s not nesessary
Or is there another problem?
73, Stefan, DL7MAJ

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Hello Folks ,
> one small question : i will regulate the Output Power of my TR-7 from 10 Watts to max. Power.
> Is this possible and has anybody some idear how to do this ?????
> All idears are welcome.
>
> Thanks and Marry Christmas and a Happy New Year 2010
> fro Germany
>
> Regards
> Joachim
>
> [Non-text portions of this message have been removed]
>

2850. Re: 4-Line Recievers?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 13:57:56 UTC
From: captcurt2000
Topic: 2847 Message: 2850

Been an owwner of a R4a and T4x combo since the mid 60's use them nearly every day still.

When mine was new, I also operated a school club station with a collins S line. During contests, we had the opportunity to use these rigs side by side--The Drakes were easily the equal of the S lines in every way--in some ways, they were better. (I thought they had a better tuning "feel". In my opinion, they are not mechanically built as well--BIG cost difference after all.. but performance wise, they are the best of the best. I dare say, they are in a different league than the Heath units but never actually had the chance to use those in side by side.

The specs never tell the entire story, only intensive use over a period of time will bring out the best and worst in a rig.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "k5myj" <rottenrobbie0@...> wrote:
>
> I'd like to hear opinions of 4-Line receivers. I am currently considering buy a R4A.
>
> I am currently a Heath SB twin owner and a friend has interested me in trying a Drake 4-Line pair. I have no interest in tranceivers. At least not at this time.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
>

2851. L4B on 160

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 16:22:28 UTC
From: Tyke
Topic: 2851 Message: 2851

anyone have any info to share on adding 160m to the L4B??(caps?? switch mods?? adding a tap or bigger coil???)
Any help appreciated!!!

Tyrone N5XES

2852. Re: [DrakeRadio] L4B on 160

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 19:45:31 UTC
From: Jim Shorney
Topic: 2851 Message: 2852

Hi Tyrone,

Lots of opinions here:

http://www.eham.net/forums/Elmers/178388

Someone who has actually done it, here:

http://www.pa6z.nl/PROJECTS/L4B_160_MOD/body_l4b_160_mod.html

I once read of a "trick", but have never tried it. Basically, you use an external L-Network antenna tuner to suppliment the internal tank circuit in the amp. Leave the load capacitor in the amp at minimum capacitance, and the inductor and the variable capacitor in the tuner become the "rest" of the tank circuit for 160. I have no idea if this would even work, let alone how well or how it would affect RX, but it's an interesting idea.

73

-Jim

On Mon, 28 Dec 2009 16:22:28 -0000, Tyke wrote:

>anyone have any info to share on adding 160m to the L4B??(caps?? switch mods?? adding a tap or bigger coil???)
>Any help appreciated!!!
>
>
>Tyrone N5XES
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2853. Drake ps7 power supply wiring information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 19:45:21 UTC
From: alex7younger
Topic: 2853 Message: 2853

Can anyone please tell me the correct wiring for the Drake ps7 10 pin lead after it enters the ps7 chassis. The leads have been cut off by a previous owner and I`m trying to reconnect them.I have a circuit diagram but it seems to relate to a newer model of ps7 than the one I own which has the number 2000 and i know they go up to at least 9000 by which time they appear to be quite a bit different inside.
the colours of the leads are :6 in number
1 black, 2 yellow, and 3 orange, thin wires
4 white screened.
5 black, and 6 white, thick wires I think these are the power wires
Some of the wires I can possibly work out but I`m especially interested in where to solder the black and white power wires
Any help would be greatly appreciated
many thanks in advance and 73`s

2854. Re: [DrakeRadio] Drake ps7 power supply wiring information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-28 23:34:25 UTC
From: Jim Shorney
Topic: 2853 Message: 2854

The two versions are electrically identical, the earlier version used point-to-point wiring whereas the later version consolidated much of the internal wiring onto a printed circuit board mounted to the rear panel. Thery are pictures of both versions in DL7MAJ's article on inrush current that may or may not be helpful to you:

http://www.dl7maj.de/PS7-Inrush.pdf

In any case, I wouuld verify the wire colors with an ohmmeter before you plug in. Color codes can vary in undocumented ways, and you could let some smoke out if there is an error.

73

-Jim

On Mon, 28 Dec 2009 19:45:21 -0000, alex7younger wrote:

>Can anyone please tell me the correct wiring for the Drake ps7 10 pin lead after it enters the ps7 chassis. The leads have been cut off by a previous owner and I`m trying to reconnect them.I have a circuit diagram but it seems to relate to a newer model of ps7 than the one I own which has the number 2000 and i know they go up to at least 9000 by which time they appear to be quite a bit different inside.
>the colours of the leads are :6 in number
>1 black, 2 yellow, and 3 orange, thin wires
>4 white screened.
>5 black, and 6 white, thick wires I think these are the power wires
>Some of the wires I can possibly work out but I`m especially interested in where to solder the black and white power wires
>Any help would be greatly appreciated
>many thanks in advance and 73`s
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2856. Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 02:19:53 UTC
From: drakesforu
Topic: 2856 Message: 2856

Was at the Target Store the other night and tried on Bose Around the Ear headphones. These are the most comfortable headphones. They are light, do not feel like vise grips after 5 minutes, and the sound is fantastic. I had them on for 20 minutes and was never uncomfortable.

I did not notice the impedance but the Drake R-4B requires a 600 ohm headphone. If I do decide to purchase the Bose what is required to increase the impedance?

john

2857. Re: [DrakeRadio] Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 04:51:57 UTC
From: Jim Shorney
Topic: 2856 Message: 2857

On Tue, 29 Dec 2009 02:19:53 -0000, drakesforu wrote:

>I did not notice the impedance but the Drake R-4B requires a 600 ohm headphone.
>If I do decide to purchase the Bose what is required to increase the impedance?

It seems that the Bose web site is devoid of any real technical information, including impedance. You will probably need to contact them and ask. The Best Buy web site says 32 ohms. Assmuming this is correct, this will be halved because you will be using them in mono, with both sides in parallel. You could try a 560 Ohm resistor in series with the phones, but you probably won't get enough level that way. What you need is a 16-to-600 ohm matching transformer. Or, take an old stereo amp that has a headphone jack and drive it with the headphone output of the R-4B, loaded with a 560 Ohm resistor. That should give you plenty of gain. It doesn't need to be a big amp, a few watts will do. Radio SHack used to sell various mini stereo amps, such as the SA-155, that would work well.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2858. Re: [DrakeRadio] Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 04:59:58 UTC
From: Garey Barrell
Topic: 2856 Message: 2858

The R-4B has a 4 ohm PHONE output impedance.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Tue, 29 Dec 2009 02:19:53 -0000, drakesforu wrote:
>
>
>> I did not notice the impedance but the Drake R-4B requires a 600 ohm headphone.
>> If I do decide to purchase the Bose what is required to increase the impedance?
>>
>
> It seems that the Bose web site is devoid of any real technical information,
> including impedance. You will probably need to contact them and ask. The Best
> Buy web site says 32 ohms. Assmuming this is correct, this will be halved
> because you will be using them in mono, with both sides in parallel. You could
> try a 560 Ohm resistor in series with the phones, but you probably won't get
> enough level that way. What you need is a 16-to-600 ohm matching transformer.
> Or, take an old stereo amp that has a headphone jack and drive it with the
> headphone output of the R-4B, loaded with a 560 Ohm resistor. That should give
> you plenty of gain. It doesn't need to be a big amp, a few watts will do. Radio
> SHack used to sell various mini stereo amps, such as the SA-155, that would
> work well.
>
> 73
>
> -Jim
>
>

2859. Re: Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 05:16:46 UTC
From: drakesforu
Topic: 2856 Message: 2859

Why does the manual say to obtain a 600 ohm phones Garey?
The rear panel rca phono is 4 ohm for the speaker.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> The R-4B has a 4 ohm PHONE output impedance.
>
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2860. Re: [DrakeRadio] Re: Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 06:06:25 UTC
From: Richard Knoppow
Topic: 2856 Message: 2860

----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, December 28, 2009 9:16 PM
Subject: [DrakeRadio] Re: Bose Headphones

> Why does the manual say to obtain a 600 ohm phones Garey?
> The rear panel rca phono is 4 ohm for the speaker.
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell
> <k4oah@...> wrote:
>>
>>
>> The R-4B has a 4 ohm PHONE output impedance.
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>
The schematic shows the headphone jack is paralleled
with the speaker jack with a contact that shuts off the
speaker when phones are connected. I doubt if the AF amp is
very sensitive to the impedance connected to it unless it
needs some mimimum load to prevent transformer problems,
which would be unusual. It should drive any impedance phones
provided there is enough voltage. I just tried mine with a
pair of cheap HI-FI phones with 20 ohm impedance when
connected for mono and a pair of old Western Electric 20,000
magnetic phones and got good levels on both.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2861. 1.8 KHz SSB - Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 10:19:14 UTC
From: Hans-Joachim Empel
Topic: 2861 Message: 2861

Hello Folks ,
again a small Question,
i can buy a DRAKE 1.8KHz SSB - Fiter for my DRAKE TR-7.

Question : how good ist the SSB - reception with this filter ????

If its a good improvement , i will buy the filter .

Please let me know if this investment is usefull.

Regards
Joachim

[Non-text portions of this message have been removed]

2862. Re: 1.8 KHz SSB - Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 12:13:10 UTC
From: dl7maj
Topic: 2861 Message: 2862

Hi dear Joachim,
I´ve installed these filters in my TR7 and R7.
They are not very useful, because the smaller bandwidth reduces interference - but also readability of the wanted signal.
Of course there are situations possible, where these filters help.
A good tuneable Audiofilter can also help like the 1,8kHz-filter.
The PBT and the 2.4kHz-filter are in general sufficient.
On the other hand, it´s a question of better feeling, when these filters are installed.....
vy73, Stefan, DL7MAJ

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Hello Folks ,
> again a small Question,
> i can buy a DRAKE 1.8KHz SSB - Fiter for my DRAKE TR-7.
>
> Question : how good ist the SSB - reception with this filter ????
>
> If its a good improvement , i will buy the filter .
>
> Please let me know if this investment is usefull.
>
> Regards
> Joachim
>
> [Non-text portions of this message have been removed]
>

2863. Drake RF Cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 12:45:56 UTC
From: Richard Hanna
Topic: 2863 Message: 2863

I recently bought the "stuff" to make a set of the RF cables for my Twins. I bought enough to make a couple extra sets, so I want to offer them to the list members.

I have 1 set available, which consists of two low capacitance (RG-59) cables 3 feet long (for the PTO/VFO Injection), and 1 RF (RG-58) cable also 3 feet long. These are made using all metal high quality phono connectors and work very well with clearance when used on adjacent sockets.

I would like to get $30 for the set which will include shipping within the US.

If you are interested, email me, and I will work with the first emailer to arrange payment. I do have a paypal account, and will accept a postal money order. Also will accept a personal check but will wait for it to clear. Do NOT send money till we have made arrangements!

If you are interested, please email me direct.

Dick Hanna
K3VYY

k3vyy@yahoo.com

[Non-text portions of this message have been removed]

2864. Re: [DrakeRadio] Re: Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 16:27:06 UTC
From: Garey Barrell
Topic: 2856 Message: 2864

John -

Matched AF output loads are required for maximum power transfer.
Driving a high impedance load from a low impedance source is only a
problem if you want highest efficiency. Since phones are considerably
more efficient transducers than speakers, you don't NEED all that power.

One problem that does arise with low impedance phones, (typical 8 ohm
"hi-fi" phones,) is that only a very low output is required to drive
them. This results in the AF GAIN being so low that the AF Output
stages, which run wide open, (GAIN is controlled by reducing the amount
of AF applied to the stages input,) means that the s/n ratio is not very
good. This results in poor, noisy audio, particularly hum, which is
made even worse by the often accentuated low frequency response of those
types of phones. Whew!!

This is why Drake recommended 600 ohm phones. These require a higher
voltage for a given sound level, meaning the AF GAIN control needs to
be higher, better s/n ratio.

You can try the BOSE phones, and if the AF GAIN control is too low, put
a resistor in series with the phones, either in the plug or an external
adapter until the s/n ratio is satisfactory.

73, Garey - K4OAH
St Charles, IL

Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> Why does the manual say to obtain a 600 ohm phones Garey?
> The rear panel rca phono is 4 ohm for the speaker.
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>>
>> The R-4B has a 4 ohm PHONE output impedance.
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>

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2865. Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 16:49:55 UTC
From: DepShrink
Topic: 2865 Message: 2865

I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.

thanks

Ken, KB3FK

2866. Headphones --

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 17:15:13 UTC
From: Kris Merschrod
Topic: 2856 Message: 2866

I've resisted commenting, b/c my approach headphones has been primitive. Using an adapter 1/4" mono to stereo adaptor and then a 1/4"to 1/8 adaptor I just plug any old stereo headsets into the R-4any and TR-4any rigs. They range from the junk they hand out on planes (including a PAN-AM set going way back) , to R-shack with and with out those little volume controls (resistors in series), to Heil, to no-brand types and they all work to my listening enjoyment.

There does not seem to be any damage done in this way. I've also plugged them into the speak jacks (the Drake speakers are supposed to be 4 ohm - I've also plugged in 8 oHM 3-way speakers). All sound and no smoke - cw, ssb and AM. There is probably a audi fine point that I am missing, but if the headset fits, then wear it :>)

Have a Happy New Year celebration and my the new year be a healthy one for all (and their rigs).

Kris (KA2OIG)

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

2867. RE: [DrakeRadio] Re: Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 18:33:58 UTC
From: Bob Spooner
Topic: 2856 Message: 2867

John,

You can also wire up an adapter cable that puts the two transducers in the headphones in series, giving you a higher impedance. When I used stereo headphones with an old Ten-Tec rig, I found I needed a series resistor to reduce the volume to a level at my ears that corresponded to listening to the speaker at a given position of the AF gain control because of the high efficiency of the phones. So experiment. I'm sure you'll find a method that works.

73,

Bob AD3K

drakesforu wrote:
> Why does the manual say to obtain a 600 ohm phones Garey?
> The rear panel rca phono is 4 ohm for the speaker.
>
> john
>
> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com, Garey Barrell<k4oah@...> wrote:
>
>>
>> The R-4B has a 4 ohm PHONE output impedance.
>>
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 4B& C-Line,& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>
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[Non-text portions of this message have been removed]

2868. Re: Drake RF Cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 18:59:24 UTC
From: Richard Hanna
Topic: 2863 Message: 2868

The cables are spoken for. Thanks for the interest!

Dick Hanna
K3VYY

--- On Tue, 12/29/09, Richard Hanna <k3vyy@...> wrote:

From: Richard Hanna <k3vyy@...>
Subject: Drake RF Cables
To: DrakeRadio@yahoogroups.com
Date: Tuesday, December 29, 2009, 7:45 AM

I recently bought the "stuff" to make a set of the RF cables for my Twins. I bought enough to make a couple extra sets, so I want to offer them to the list members.

I have 1 set available, which consists of two low capacitance (RG-59) cables 3 feet long (for the PTO/VFO Injection), and 1 RF (RG-58) cable also 3 feet long. These are made using all metal high quality phono connectors and work very well with clearance when used on adjacent sockets.

I would like to get $30 for the set which will include shipping within the US.

If you are interested, email me, and I will work with the first emailer to arrange payment. I do have a paypal account, and will accept a postal money order. Also will accept a personal check but will wait for it to clear. Do NOT send money till we have made arrangements!

If you are interested, please email me direct.

Dick Hanna
K3VYY

k3vyy@...

[Non-text portions of this message have been removed]

2869. Re: Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 19:46:46 UTC
From: drakesforu
Topic: 2856 Message: 2869

Thanks to All for the comment's and
Happy New Year.

john

2870. Rescued a Drake 2C and need a repair person

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 20:15:46 UTC
From: FireBrick
Topic: 2870 Message: 2870

I'm trying to recreate my early station of Drake 2C and Eico 720.
I found the Drake, Tubes light up but it was mistreated.

I used to use a gentleman in MN, Tim Moes, but seems to have retired.
Can anyone recommend a repair person?
In USA preferably. LOL

Pse and Tu
and HNY....
(normally on 80 cw in mornings)

Hangover: the wrath of grapes.

TOWER/WEBCAMS and Weather Page
@ http://hhweather.webhop.org

2871. Re: [DrakeRadio] 1.8 KHz SSB - Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 22:36:20 UTC
From: Richard Knoppow
Topic: 2861 Message: 2871

----- Original Message -----
From: "Hans-Joachim Empel" <hajoempel@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, December 29, 2009 2:19 AM
Subject: [DrakeRadio] 1.8 KHz SSB - Filter

> Hello Folks ,
> again a small Question,
> i can buy a DRAKE 1.8KHz SSB - Fiter for my DRAKE TR-7.
>
> Question : how good ist the SSB - reception with this
> filter ????
>
> If its a good improvement , i will buy the filter .
>
> Please let me know if this investment is usefull.
>
> Regards
> Joachim
>

Just some general comments about audio bandwidth in speech communication: Bell Telephone Laboratories did extensive research about this beginning perhaps as early as the 1920s and continuing for as long as it existed. What the telephone company found was that most of the _power_ in speech was in frequencies below about 300hz but that the intellegence was mostly in the frequencies between about 1000hz and 3000hz. For band limited systems about a 2khz bandwidth is sufficient for intelligible speech but they also found that it was necessary to include frequencies down to about 250hz for naturalness. Subscribers did not like the sound of sysems with more limited low frequencies. For its carrier and long distance radio transmissions Bell System decided on a range from 250Hz to 2750Hz, a 2.5Khz bandwidth. This was a compromise between economical use of bandwidth and preserving both naturalness and intelligibility. Speech which must operate with relatively high noise levels benefit from narrowing the bandwidth to the minimum needed for intelligibility so that the power avilable for transmission can be used for it rather than for the low frequency components in speech. Of course, the use of compression schemes which increase the average power of speech also help. The peak to average ratio in unprocessed speech is quite high so reducing it has a distinct advantage for noisy circuits. However, research done around the late

1940's by Licklidder and others showed that while infinite peak clipping improved speech intelligibility under noisy conditions it actually made it worse for quiet circuits. There was research done in Russia which showed that speech would remain intelligible even when processing and band limiting was so extreme that it was no longer possible to identify the individual speaker.
The 2.4Khz bandwidth used by Drake for both transmitting and receiving seems to be about the minimum that is practical. Wider bandwidth improves naturalness but not intelligibility under noisy conditions, which is the most common condition in amateur radio.
I can probably come up with citations but would have to do some research myself to find all the papers. I no longer remember the sources in detail. Those who have time to spend should look at the indices of _The Bell Telephone Laboratories Jounal_ and _The Journal of the Acoustical Society of America_ both of which contain a very large literature about speech and its transmission.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2872. Re: [DrakeRadio] 1.8 KHz SSB - Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-29 23:00:32 UTC
From: Jim Shorney
Topic: 2861 Message: 2872

Joachim,

If you work contests, DXing, or crowded band conditions, you will come to love the 1.8 KHz filter in conjunction with the passband tuning and RF gain controls. For casual rag chewing, it's not a big deal. When I recently acquired a nice R-7A, I immediatly located a 1.8 filter for it because it just sounded "too wide" compared to the way I usually operate my TR-7. I now find it difficult at times to operate ANY radio that does not have a narrow SSB filter.

Just my opinion.

73

-Jim

On Tue, 29 Dec 2009 11:19:14 +0100, Hans-Joachim Empel wrote:

>Hello Folks ,
>again a small Question,
>i can buy a DRAKE 1.8KHz SSB - Fiter for my DRAKE TR-7.
>
>Question : how good ist the SSB - reception with this filter ????
>
>If its a good improvement , i will buy the filter .
>
>Please let me know if this investment is usefull.
>
>Regards
>Joachim
>
>[Non-text portions of this message have been removed]
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2873. Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 00:26:39 UTC
From: randyinaura
Topic: 2873 Message: 2873

I must have had some spare time today, and so I went to the "Photos" section of the Drake Group just to admire the various shacks of some of the group members. Now for my stupid question. I couldn't help notice that many of the members have their Drake equipment stacked one on top of another. Some even stack units three high! I'm sure the engineers at R.L. Drake put all those holes in the top of the units with the idea of doing more than saving weight. Isn't the cooling of the units affected when their stacked that way? I have a T-4X and an R-4A. Is it okay to stack them? Which unit should go on top? Thanks in advance for any suggestions.

Randy - K8HRO

2874. Microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 00:01:57 UTC
From: KF4KUL
Topic: 2874 Message: 2874

Hi,
Just picked up a Drake TR-4 at a Ham Swap for almost nothing. Plugged it in and it looks like it is OK. So far I was just able to check in CW. My question is what kind of MIC can I use with this radio. I understand it is a high impedance input. (I guess around 10 kilo Ohm), is this correct?

Thanks,
Udo (KF4KUL)

2875. Re: [DrakeRadio] Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 00:43:02 UTC
From: Butch Housman
Topic: 2873 Message: 2875

Stacking is an old custom that is the civilian counterpart to military rack mounting. This all dates back to the PTO era (pre toaster oven) which WAY,WAY predates the microwave oven.

What u can't tell from these pics is that just before the exposure was made the proud owner had straihghtened up the shack, discarding the aluminum foil & little pizza trays that had been left on top the rigs after warming snacks & light lunches.

Different strokes.....

b

PS. I hear the Icom 7000 is pretty gud for warming Honey Buns or other small rolls....certainly can't compete w/ a REAL radio tho.

[Non-text portions of this message have been removed]

2876. RE: [DrakeRadio] Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 00:51:21 UTC
From: Jim Chaggaris
Topic: 2873 Message: 2876

Not advisable and a bad practice.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of randyinaura
Sent: Tuesday, December 29, 2009 6:27 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Stacking Units

I must have had some spare time today, and so I went to the "Photos" section of the Drake Group just to admire the various shacks of some of the group members. Now for my stupid question. I couldn't help notice that many of the members have their Drake equipment stacked one on top of another. Some even stack units three high! I'm sure the engineers at R.L. Drake put all those holes in the top of the units with the idea of doing more than saving weight. Isn't the cooling of the units affected when their stacked that way? I have a T-4X and an R-4A. Is it okay to stack them? Which unit should go on top? Thanks in advance for any suggestions.

Randy - K8HRO

[Non-text portions of this message have been removed]

2877. Re: [DrakeRadio] Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 01:17:31 UTC
From: amfone
Topic: 2873 Message: 2877

If I were to stack them and at times I have I would put the transmitter on the top, open to allow it to breath. The transmitter will create the most heat. I've wondered about this too, not just with Drake but other gear.Even without holes on the top, covering the top will create more heat due to the chassis metal or material not being able to breath. So although space may require this, it may not be a good or at least the best approach.

Tim
WB8UHZ

From: randyinaura <rfb@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, December 29, 2009 7:26:39 PM
Subject: [DrakeRadio] Stacking Units

I must have had some spare time today, and so I went to the "Photos" section of the Drake Group just to admire the various shacks of some of the group members. Now for my stupid question. I couldn't help notice that many of the members have their Drake equipment stacked one on top of another. Some even stack units three high! I'm sure the engineers at R.L. Drake put all those holes in the top of the units with the idea of doing more than saving weight. Isn't the cooling of the units affected when their stacked that way? I have a T-4X and an R-4A. Is it okay to stack them? Which unit should go on top? Thanks in advance for any suggestions.

Randy - K8HRO

[Non-text portions of this message have been removed]

2878. Re: Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 01:21:07 UTC
From: randyinaura
Topic: 2873 Message: 2878

Thanks to those who answered my original post. Okay, let's assume that stacking rigs is, if not bad practice, at least bad form. It is, however a matter of degree (no pun intended), rather than one of principal. Imagine if you had one rig on the floor and the other up near the ceiling - no problem, right? What if the two units were separated by several feet - still no problem. So, the question now becomes, what is minimum distance one should consider separating the units by, if they're being used, one on top of another?

Randy - K8HRO

--- In DrakeRadio@yahoogroups.com, "randyinaura" <rfb@...> wrote:
>
> I must have had some spare time today, and so I went to the "Photos" section of the Drake Group just to admire the various shacks of some of the group members. Now for my stupid question. I couldn't help notice that many of the members have their Drake equipment stacked one on top of another. Some even stack units three high! I'm sure the engineers at R.L. Drake put all those holes in the top of the units with the idea of doing more than saving weight. Isn't the cooling of the units affected when their stacked that way? I have a T-4X and an R-4A. Is it okay to stack them? Which unit should go on top? Thanks in advance for any suggestions.
>
> Randy - K8HRO
>

2879. Re: Microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 02:23:00 UTC
From: w5kg
Topic: 2874 Message: 2879

Just about any Hi-Z mic eill work well.
On my TR4 I am using a Shure mic with very good results. Having said that a Heath/Electrovoice, D-104, Or any mic that has a high impedance element in it. Even a Kenwood MC50 will work very well.
Take your pick.
73 de
Don, W5KG

--- In DrakeRadio@yahoogroups.com, "KF4KUL" <uvisintini@...> wrote:
>
> Hi,
> Just picked up a Drake TR-4 at a Ham Swap for almost nothing. Plugged it in and it looks like it is OK. So far I was just able to check in CW. My question is what kind of MIC can I use with this radio. I understand it is a high impedance input. (I guess around 10 kilo Ohm), is this correct?
>
> Thanks,
> Udo (KF4KUL)
>

2880. Re: [DrakeRadio] Bose Headphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 02:34:55 UTC
From: Jim Shorney
Topic: 2856 Message: 2880

On Mon, 28 Dec 2009 22:59:58 -0600, Garey Barrell wrote:

>The R-4B has a 4 ohm PHONE output impedance.

Having never owned a B, I was assuming the information the original poster was relaying to be correct.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2881. Re: [DrakeRadio] Re: 1.8 KHz SSB - Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 02:41:18 UTC
From: Jim Shorney
Topic: 2861 Message: 2881

On Tue, 29 Dec 2009 12:13:10 -0000, dl7maj wrote:

>They are not very useful, because the smaller bandwidth reduces interference - but also readability of the wanted signal.

I find that using the passband tuning, I can very often improve the readability of a signal with the 1.8 filter under adverse conditions. They key is the passband tuning. I run with it on all the time, it is one of the most useful tools.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2882. Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 02:44:44 UTC
From: Al
Topic: 2873 Message: 2882

Drake use to make a CA-1, a stacking cabinet for stacking the 4 line. Below are three links showing it. Although we can all agree that heat or too much heat can be a bad thing the question is at what point do we reach that level.

http://www.dproducts.be/drake_museum/ca-1_cabinet1.htm

http://www.dproducts.be/drake_museum/images/CA1.jpg

http://www.dproducts.be/drake_museum/images/r4ct4xc_in_a_box.jpg

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

2883. Re: [DrakeRadio] Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 02:58:13 UTC
From: Jim Shorney
Topic: 2865 Message: 2883

On Tue, 29 Dec 2009 16:49:55 -0000, DepShrink wrote:

>I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.

The PIN diodes are on the high pass filter assembly, rear. You can find PIN diode test procedures here:

http://www.zerobeat.net/drakelist/tr7bookalign.html
http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-11.htm
http://www.wb4hfn.com/DRAKE/DrakeArticles/PinDiodeTest.htm

However, there is a tendency to point to the PIN diodes as the root of all evil when there are strange problems. Other possibilities for your problem are:

1. Predriver gain pot set too high.
2. Leaky driver transistors on the PA board

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2884. RE: [DrakeRadio] Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 03:07:54 UTC
From: Ken Buchsbaum
Topic: 2865 Message: 2884

Thanks, I will take a look tomorrow. I also have a TR-7, but it drifts continually, and is virtually unusable. The TR-7A is rock steady, but I can't transmit. Maybe I can combine them into one great rig!

Ken KB3FK

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Tuesday, December 29, 2009 9:58 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake TR-7A Transmit Problem

On Tue, 29 Dec 2009 16:49:55 -0000, DepShrink wrote:

>I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.

The PIN diodes are on the high pass filter assembly, rear. You can find PIN diode test procedures here:

http://www.zerobeat <http://www.zerobeat.net/drakelist/tr7bookalign.html> .net/drakelist/tr7bookalign.html
http://www.wb4hfn. <http://www.wb4hfn.com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-11.htm> com/DRAKE/DrakeArticles/InsideTheTR7/Inside_The_TR7-11.htm
http://www.wb4hfn. <http://www.wb4hfn.com/DRAKE/DrakeArticles/PinDiodeTest.htm> com/DRAKE/DrakeArticles/PinDiodeTest.htm

However, there is a tendency to point to the PIN diodes as the root of all evil
when there are strange problems. Other possibilities for your problem are:

1. Predriver gain pot set too high.
2. Leaky driver transistors on the PA board

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.

TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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http://www.nebraska <http://www.nebraskaghosts.org> ghosts.org

[Non-text portions of this message have been removed]

2885. Re: [DrakeRadio] Microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 03:22:44 UTC
From: Jim Shorney
Topic: 2874 Message: 2885

On Wed, 30 Dec 2009 00:01:57 -0000, KF4KUL wrote:

>Just picked up a Drake TR-4 at a Ham Swap for almost nothing. Plugged it in and it looks like it is OK. So far I was just able to check in CW. My question is what kind of MIC can I use with this radio. I understand it is a high impedance input. (I guess around 10 kilo Ohm), is this correct?

Sure 444, D-104 (non-amplified), Turner 254HC, Electro-Voice 729, or just about
any other high impedance mic.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2886. RE: [DrakeRadio] Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 03:27:21 UTC
From: Jim Shorney
Topic: 2865 Message: 2886

On Tue, 29 Dec 2009 22:07:54 -0500, Ken Buchsbaum wrote:

>Thanks, I will take a look tomorrow. I also have a TR-7, but it drifts
>continually, and is virtually unusable. The TR-7A is rock steady, but I
>can't transmit. Maybe I can combine them into one great rig!

Don't give up on that TR-7, it's probably something not very serious.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

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for a lifetime."

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http://www.nebraskaghosts.org

2887. Re: Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 03:43:15 UTC
From: randyinaura
Topic: 2873 Message: 2887

Good grief! There's practically no space between the R-4C and the T-4XC. Evidently, there's not much of a heat problem in the R-4C and furthermore, any heat that does come out of the R-4C doesn't significantly warm up the T-4XC. It seems hard to believe, but this setup had Drake's blessing I guess.

Randy - K8HRO

--- In DrakeRadio@yahoogroups.com, Al <mebareit@...> wrote:
>
> Drake use to make a CA-1, a stacking cabinet for stacking the 4 line. Below are three links showing it. Although we can all agree that heat or too much heat can be a bad thing the question is at what point do we reach that level.

2888. Re: [DrakeRadio] Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 04:42:22 UTC
From: Big Mike
Topic: 2873 Message: 2888

Drake actually made a stacking cabinet. The transmitter was on top/receiver on bottom. I had one a long time ago. Worked well for years. Yes, it's OK to stack them. Just put the transmitter on top because of the added heat created by the finals.

73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2889. Re: Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 13:06:03 UTC
From: floydsense
Topic: 2873 Message: 2889

Yes - on FD back around 1971, we used a Drake pair (believe it was an R4/T4X) with the factory stacking cabinet. There were no problems over a 24 hour period with the temperature between 90 and 95 degrees.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "Big Mike" <k5vse@...> wrote:
>
> Drake actually made a stacking cabinet. The transmitter was on top/receiver on bottom. I had one a long time ago. Worked well for years. Yes, it's OK to stack them. Just put the transmitter on top because of the added heat created by the finals.
>
> 73,
>
> Mike-K5VSE
> Formerly WB6VSE, Senior Tech. Amateur Div
> SBE, Watsonville, CA Retired Fire Chief
> USS Point Defiance LSD 31, USS Okanogan APA 220
> http://sjsharks.tripod.com/index.html
> All email scanned with Norton 2010
> In God We Trust
> "SUPPORT OUR TROOPS"
> Viet Nam Vet
>
> [Non-text portions of this message have been removed]
>

2890. Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 13:03:36 UTC
From: floydsense
Topic: 2865 Message: 2890

It's also entirely possible that the PA brick is oscillating. A while back, I found that if you adjust the pre-driver pot on the PA unit for maximum output on 10 meters, all was well when testing into a dummy load on all bands. But, when I attached a real antenna with just a bit of reactance, the PA oscillated on 40 meters. When I adjusted the pre-driver pot for 75-80 watts out on 10, per one of the members here, the oscillation was cured. My PA had new transistors installed (not the same ones as original), so maybe it was more prone to oscillation than it would have been with the original transistor type. I don't believe your problem has anything to do with the PIN diodes.

73, Floyd - K8AC

--- In DrakeRadio@yahoogroups.com, "DepShrink" <depshrink@...> wrote:
>
> I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.
>
> thanks
>
> Ken, KB3FK
>

2891. R-4c

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 13:15:07 UTC
From: wb8ure
Topic: 2891 Message: 2891

I have a R4-C that after about a minute,the audio goes distorted.

2892. 1.8KHz Filter / Dynamic Microfone Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 14:05:28 UTC
From: Hans-Joachim Empel
Topic: 2892 Message: 2892

Thanks to all they give me idears , solutions ,and different ways to solve my Problems !!!!!

a warm thanks to all HAMs at the DRAKE RADIO GROUP

Kind regards a HAPPY NEW YEAR and all the BEST 2010 from Germany

Joachim

[Non-text portions of this message have been removed]

2893. Re: Microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 15:14:26 UTC
From: David & Chris Drake
Topic: 2874 Message: 2893

Add to the list, a Electrovoice 664D (works excellent wired for high impedance), and a Shure Unidyne high impedance or any other older Shure high impedance mike, if you have a stand to mount them.

Shure used to make a S40A stand that had a PTT switch. You could buy a short pipe and/or mount the mic directly, route a short cable into the base, and then back out to the rig. I've done both the 664D and a Shure 545S (Unidyne III) this way. I use the 664D with the TR4C and the Shure 545S with a TR7. Both offer excellent audio reports.

The TR4's do seem to like a higher impedance than some other rigs. 500k or so seems to be the preferred range, but anything above 50k should work.

73's
David
Wd9cmd

[Non-text portions of this message have been removed]

2894. RE: [DrakeRadio] Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 16:35:51 UTC
From: Steve Finch
Topic: 2865 Message: 2894

I experienced a similar problem. I backed off the pre-driver to 90 watts on 10 meters and the rig is stable on all bands There also is the possibility that the grounding of the pre-driver and final PA is not a solid due to corrosion from ☐the passage of time.☐ You might clean the grounding points of the boards and other ground connections while you have the rig open.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of floydsense
Sent: Wednesday, December 30, 2009 6:04 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake TR-7A Transmit Problem

It's also entirely possible that the PA brick is oscillating. A while back, I found that if you adjust the pre-driver pot on the PA unit for maximum output on 10 meters, all was well when testing into a dummy load on all bands. But, when I attached a real antenna with just a bit of reactance, the PA oscillated on 40 meters. When I adjusted the pre-driver pot for 75-80 watts out on 10, per one of the members here, the oscillation was cured. My PA had new transistors installed (not the same ones as original), so maybe it was more prone to oscillation than it would have been with the original transistor type. I don't believe your problem has anything to do with the PIN diodes.

73, Floyd - K8AC

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "DepShrink" <depshrink@...> wrote:
>
> I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.
>
> thanks
>
> Ken, KB3FK
>

[Non-text portions of this message have been removed]

2895. Re: [DrakeRadio] Re: Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 16:45:41 UTC
From: N2FQ
Topic: 2873 Message: 2895

Hello.

Speaking of stacking, anyone have one for sale?

I have a R4 / T4 exciter (no vfo) that would look grand

stacked in a CA-1.

Happy and Healthy 2010.

73 Fernando N2FQ/6

2896. Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 14:47:01 UTC
From: ab4cz
Topic: 2865 Message: 2896

First test: Listen to the output with a second receiver. Is this a clean carrier on the expected frequency? If it's the final oscillating, it may not even be on the carrier frequency and it will likely not be a clean sounding note. If it is a clean note, it is probably not an oscillating final. In that case, look around the balanced modulator. A dead component in the balanced modulator will unbalance it and cause carrier output. It may be as simple as adjusting the carrier balance control, although I don't think the range of this control will allow full carrier. In any case, check the balanced modulator.

Incidentally, another test for an oscillating final is to connect to an antenna. If the VSWR is unusually high, it means the output is not on the expected frequency (assuming a normal antenna with limited bandwidth .... a log periodic might not care).

Good luck. I'm new to this drake stuff; my wife just gave me a B-Line for Christmas (with a little guidance ... I drover her over to the guy's house, pointed to the radio and said "this one". She wrote the check). I'm really impressed with Drake gear.... hard to believe my B-Line looks and works so well after 41 years. Good stuff.

73,
Jim, AB4CZ

> --- In DrakeRadio@yahoogroups.com, "DepShrink" <depshrink@> wrote:
> >
> > I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.
> >
> > thanks
> >
> > Ken, KB3FK
> >
>

2897. Re: [DrakeRadio] Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 19:11:33 UTC
From: Garey Barrell
Topic: 2865 Message: 2897

Probably not PIN diodes. Couple of good possibilities Jim. Certainly oscillation in one or more stages will do the trick!

I would check the +10T and +10R bus voltages. I have seen units where both buses were "ON" at the same time with all sorts of resultant feedback and transmitter output.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Tue, 29 Dec 2009 16:49:55 -0000, DepShrink wrote:
>
>
>> I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.
>>
> 1. Predriver gain pot set too high.
> 2. Leaky driver transistors on the PA board
>
>

2898. Re: Stacking Units

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 19:58:59 UTC
From: jb
Topic: 2873 Message: 2898

That sounds reasonable too. A day that may feel warm to us can be plenty sufficient to cool these rigs as long as there is adequate ventilation. Outside on a FD is ideal. But placing a stack like that in something like a bookshelf system with only an open front may not be adequate in a room at 70 degrees.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "floydsense" <floyd@...> wrote:
>
> Yes - on FD back around 1971, we used a Drake pair (believe it was an R4/T4X) with the factory stacking cabinet. There were no problems over a 24 hour period with the temperature between 90 and 95 degrees.
>
> 73, K8AC
>
> --- In DrakeRadio@yahoogroups.com, "Big Mike" <k5vse@> wrote:
> >
> > Drake actually made a stacking cabinet. The transmitter was on top/receiver on bottom. I had one a long time ago. Worked well for years. Yes, it's OK to stack them. Just put the transmitter on top because of the added heat created by the finals.
> >
> > 73,
> >
> > Mike-K5VSE
> > Formerly WB6VSE, Senior Tech. Amateur Div
> > SBE, Watsonville, CA Retired Fire Chief
> > USS Point Defiance LSD 31, USS Okanogan APA 220
> > http://sjsharks.tripod.com/index.html
> > All email scanned with Norton 2010
> > In God We Trust
> > "SUPPORT OUR TROOPS"
> > Viet Nam Vet
> >
> > [Non-text portions of this message have been removed]
> >
>

2899. RE: [DrakeRadio] Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 20:45:32 UTC
From: Ken Buchsbaum
Topic: 2865 Message: 2899

Thanks, I will give it a try. I appreciate all the help that everyone's giving!!! I will keep you informed of my progress with the TR-7A

73, Ken, KB3FK

_____

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ab4cz
Sent: Wednesday, December 30, 2009 9:47 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake TR-7A Transmit Problem

First test: Listen to the output with a second receiver. Is this a clean carrier on the expected frequency? If it's the final oscillating, it may not even be on the carrier frequency and it will likely not be a clean sounding note. If it is a clean note, it is probably not an oscillating final. In that case, look around the balanced modulator. A dead component in the balanced modulator will unbalance it and cause carrier output. It may be as simple as adjusting the carrier balance control, although I don't think the range of this control will allow full carrier. In any case, check the balanced modulator.

Incidentally, another test for an oscillating final is to connect to an antenna. If the VSWR is unusually high, it means the output is not on the expected frequency (assuming a normal antenna with limited bandwidth .... a log periodic might not care).

Good luck. I'm new to this drake stuff; my wife just gave me a B-Line for Christmas (with a little guidance ... I drover her over to the guy's house, pointed to the radio and said "this one". She wrote the check). I'm really impressed with Drake gear.... hard to believe my B-Line looks and works so well after 41 years. Good stuff.

73,
Jim, AB4CZ

> --- In DrakeRadio@yahoogro <mailto:DrakeRadio%40yahoogroups.com> ups.com, "DepShrink" <depshrink@> wrote:
> >
> > I recently picked up a TR7A which was suppose to be in great working order. However, when I key the mike, i get full output even without making a sound into the microphone. One of my friends suggested it was a bad "pin diode". If so, on what board is this diode or is it on the motherboard? I would like to get this rig working.
> >
> > thanks

> >
> > Ken, KB3FK
> >
>

[Non-text portions of this message have been removed]

2900. RE: [DrakeRadio] Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-30 22:17:20 UTC
From: Jim Shorney
Topic: 2865 Message: 2900

On Wed, 30 Dec 2009 09:35:51 -0700, Steve Finch wrote:

>I experienced a similar problem. I backed off the pre-driver to 90 watts on
>10 meters and the rig is stable on all bands

Yep, there is a tendency for the PA deck to oscillate in the 7-10 MHz band if the gain is too high. Not all units seem to do this. It will present as full carrier indication on 40 meters SSB, but will actually be oscillating closer to 10 MHz. I wrote up my PA adventures for the Drakelist reflector and also the Drakelist online forum a couple of years ago. In a nutshell, it started with leaky driver transistors, which caused strange oscillations and unstable operation on most bands. I rebuilt the PA and predriver using more modern devices as described in an article on wb4hfn.com, but then had the 40 meter oscillation. I eventually solved this by modifying the negative feedback in the predriver to provide more negative feedback at lower frequencies. This, in turn, allowed me to turn the pot up enough to get specified power out on the lower bands and decent power on 10 meters. If I were to persue it further, I would try to find out exactly where the 7-10 MHz resonance is and work to eliminate it completely.

>There also is the possibility
>that the grounding of the pre-driver and final PA is not a solid due to
>corrosion from ☐the passage of time.☐ You might clean the grounding points
>of the boards and other ground connections while you have the rig open.

Good thought too. There is an internet article (don't have the URL handy) by a European ham who went even further to improve PA grounding by adding more ground plane foil to the PCB. I replicated his work when I was rebuilding my PA deck, but my results weren't quite as good as his. As they say, YMMV. I think that I wouldn't rip a PA deck out just to add ground plane area, but if one is rebuilding the PA anyway, it probably doesn't hurt to add it while in there.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net

http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2901. R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 01:18:36 UTC
From: captcurt2000
Topic: 2901 Message: 2901

Have an R4B that is a little stiff in the dial when cold and gets worse as it gets warm.

Someone has really messed with this radio everywhere else so cud have wrenched in the VFO also.

Is there a drag adjustment inside the PTO? Is it the end bearing?

Curt

2902. Re: [DrakeRadio] Re: Drake TR-7A Transmit Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 02:04:46 UTC
From: Jim Shorney
Topic: 2865 Message: 2902

On Wed, 30 Dec 2009 13:03:36 -0000, floydsense wrote:

>My PA had new transistors installed (not the same ones as original), so maybe it was more prone to oscillation than it would have been with the original transistor type. I don't believe your problem has anything to do with the PIN diodes.

Floyd,

I've seen the 40 Meter oscillation in units that have all original devices in the PA deck. Not all radios seem to do it, but I have seen other references to it on the net. There was no "fix" at the time I was searching, but there were vague suggestion that the PIN diodes caused the problem. Of course, this is not the case.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2903. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 02:08:28 UTC
From: Richard Knoppow
Topic: 2901 Message: 2903

----- Original Message -----
From: "captcurt2000" <captcurt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, December 30, 2009 5:18 PM
Subject: [DrakeRadio] R4B dial drag adjustment?

> Have an R4B that is a little stiff in the dial when cold
> and gets worse as it gets warm.
>
> Someone has really messed with this radio everywhere else
> so cud have wrenched in the VFO also.
>
> Is there a drag adjustment inside the PTO? Is it the end
> bearing?
>
> Curt
>

I don't know about adjustments but examine the nylon gears for lubricants. They don't need lubrication and it will swell the plastic. FWIW, brass gears also do not need lubrication.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2904. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 02:29:23 UTC
From: Garey Barrell
Topic: 2901 Message: 2904

Curt -

Richard is correct about the grease that some insist on putting on the nylon gears. Some also grease the lead screw, and some put wheel bearing grease in the ball bearings at the front of the gearbox.!!

There is an excellent article on this at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/PTO/Drake_PTO.htm>

It's for the C-Line PTO, but they're the same behind the single, (dual) disc(s).

And yes, there is an adjustment. An Allen screw that supports the single ball bearing at the rear of the lead screw. It should be just tight enough to eliminate any sideplay in the MAIN TUNING knob.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Have an R4B that is a little stiff in the dial when cold and gets worse as it gets warm.
>
> Someone has really messed with this radio everywhere else so cud have wrenched in the VFO also.
>
> Is there a drag adjustment inside the PTO? Is it the end bearing?
>
> Curt
>
>
>

2905. WTB W-4 Watt Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 03:02:01 UTC
From: Joe
Topic: 2905 Message: 2905

If anyone here has an extra W-4 watt meter they might be interested in selling, please shoot me an email:

WA6RKN@...

Needless to say, I needs to be in good shape and work. Heh....

Oh..and if you live close to Reno, Nevada, so much the better!

Thanks in advance

Joe Wolfe
WA6RKN
Reno, Nevada

2906. Re: R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 03:14:27 UTC
From: captcurt2000
Topic: 2901 Message: 2906

Yes..OK and thanks Garey and Richard.

I had to clean a little off the nylon and yes there was dark grease in the front bearing.

I wondered if there was a specific drag screw--like some other rigs have that use encoders. I guess I need to remove the PTYO for a thorough cleanup and free-up.

Its back from the dead tho.. I'll tell that whole story later.

Happy New Year.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> Richard is correct about the grease that some insist on putting on the
> nylon gears. Some also grease the lead screw, and some put wheel
> bearing grease in the ball bearings at the front of the gearbox.!!
>
> There is an excellent article on this at
>
> <http://www.wb4hfn.com/DRAKE/DrakeArticles/PTO/Drake_PTO.htm>
>
> It's for the C-Line PTO, but they're the same behind the single, (dual)
> disc(s).
>
> And yes, there is an adjustment. An Allen screw that supports the
> single ball bearing at the rear of the lead screw. It should be just
> tight enough to eliminate any sideplay in the MAIN TUNING knob.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> captcurt2000 wrote:
> > Have an R4B that is a little stiff in the dial when cold and gets worse as it gets warm.
> >
> > Someone has really messed with this radio everywhere else so cud have wrenched in the VFO also.

> >
> > Is there a drag adjustment inside the PTO? Is it the end bearing?
> >
> > Curt
> >
> >
> >
>

2907. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 05:11:22 UTC
From: Richard Knoppow
Topic: 2901 Message: 2907

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, December 30, 2009 6:29 PM
Subject: Re: [DrakeRadio] R4B dial drag adjustment?

> Curt -
>
> Richard is correct about the grease that some insist on
> putting on the
> nylon gears. Some also grease the lead screw, and some
> put wheel
> bearing grease in the ball bearings at the front of the
> gearbox.!!
>
> There is an excellent article on this at
>
> <http://www.wb4hfn.com/DRAKE/DrakeArticles/PTO/Drake_PTO.htm>
>
> It's for the C-Line PTO, but they're the same behind the
> single, (dual)
> disc(s).
>
> And yes, there is an adjustment. An Allen screw that
> supports the
> single ball bearing at the rear of the lead screw. It
> should be just
> tight enough to eliminate any sideplay in the MAIN TUNING
> knob.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

Gary, what have you found to be the best cleaner for
the gears? Obviously, some solvents are going to be as bad
or worse for the plastic as the oil is.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2908. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 06:02:48 UTC
From: Jim Shorney
Topic: 2901 Message: 2908

On Wed, 30 Dec 2009 21:29:23 -0500, Garey Barrell wrote:

>Richard is correct about the grease that some insist on putting on the
>nylon gears.

It seems that not all grease is bad. I have found grease on the gears in a couple of pieces of 7-Line gear that I am reasonably sure have never been tinkered with by owners, including the pristine single-owner R-7A that I got last year that I am certian had never been opened up since it left the factory.

http://www.mail-archive.com/drakelist@.../msg10089.html

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2909. S - Meter on DRAKE SPR - 4 (s)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 08:28:12 UTC
From: Hans-Joachim Empel
Topic: 2909 Message: 2909

Good morning to the group ,

i have a small question about DRAKE SPR - 4 Signalmeter.
i am the Owner of 4 SPR-4(s) and i have a Problem on all
4 S - Meters.

I have no signal indication on all 4 S-Meters in (AM . CW , LSB , USB).
The RX (s) are receiving verry good and without problems in all modes.

Has anybody an idear , why this can be happen ?????

Any Idear ore Solution are welcome.

Kind Regards and a HAPPY NEW YEAR 2010 from Germany

Joachim
DL2388RB

[Non-text portions of this message have been removed]

2910. Re: R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 15:24:03 UTC
From: captcurt2000
Topic: 2901 Message: 2910

Having worked on a lot of equipment and mechanisms over the years (not just amateur radio), the major issue with applying grease of any kind to these kind of gearsets is that they attract and hold dust and crud..

As a general rule, at the low speeds of these sets, nylon running against steel or more nylon is self lubricating and requires only to be clean.

Brass running on steel is the same. for gear faces. A thin general purpose oil in very small amounts might be used on bras busshings with steel shafts but again, excess will hold dirt which is the real culprit.

Nylon is hygroscopic / Hydrophillic in that it absorbs moisture and swells. (not sure of the chemistry here...the first is water absorbtion..like a sponge, the second is actual molecular bonding of the molecules within the material) the only white or natural color plastic that does not (at least amounts not significant) is UHMW Polyethylene. (Ultra High Molecular Weight). Delrin is better in this respect than nylon but still absorbs and swells slightly. So, in the case of nylon gears, they will absorb the oils out of the grease and leave the hardened thickener/fillers behind. They also swell slightly which could conceivably bind up a shaft or gear interface. It is more a problem on close fitting shafts than gear teeth, as the clearances on the teeth are always greater and the swelling is minor.

So..it is possible to use a white grease or teflon-based grease on these but I don't think it necessary given the dust problem.

The ball bearings should have a light application of bearing grease. I use the white lithium/teflon stuff they use in hi-end bike bearings.

Also, the lead screw for the PTO should be steel on brass and not really need any lube, but I have always used a small amount of the same teflon grease on these as well and just tried to keep them as clean as possible, since again, the major dad thing that causes wear is the attracted dust and dirt.

I know this all works because I have maintained my R4a/T4x this way for over 40 years and there is not a lick of slop or drag in them..for all practical purposes, they work like they did when they were new. It is also based upon 30 plus years servicing a variety of industrial and scientific equipment.

Now I need to remove the PTO assy on this R4B and clean it all up so I can start over.

Thanks for sharing all your experiences--I really appreciate it.

The only problem with these Drake radios is they go bad so infrequently, it takes a lifetime to accumulate a lot of fix history..good problem to have I guess.

Happy New Year All.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Have an R4B that is a little stiff in the dial when cold and gets worse as it gets warm.
>
> Someone has really messed with this radio everywhere else so cud have wrenched in the VFO also.
>
> Is there a drag adjustment inside the PTO? Is it the end bearing?
>
> Curt
>

2911. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 15:51:55 UTC
From: Garey Barrell
Topic: 2901 Message: 2911

Richard Knoppow wrote:
>
> Gary, what have you found to be the best cleaner for
> the gears? Obviously, some solvents are going to be as bad
> or worse for the plastic as the oil is.
>
>
>
>
Richard -

I use 97% alcohol and a toothbrush. One of the features of nylon is its resistance to solvents. Supposedly you could use gasoline, kerosene, turpentine, mineral oil, etc., etc......

I think the key is to not soak them in anything. Dunk in alcohol, brush with a stiff bristled brush, dunk again until clean. DON'T dunk in solvent and then go to lunch! :-)

I'm not sure what the mechanism is that allows grease to cause the gears to swell, (IF that's really what happens,) I'm not certain that the problem isn't just hardened grease inside the bore of the gear. If you've ever disassembled an old greased mechanism, there is a "varnish" that plates surfaces that has to be chipped off with a metal tool! I think this is what this procedure is actually "sanding" off.

The KEY factor here is that nylon gears are intended to run "dry", and NO lubricant is needed or desired.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

2912. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 15:54:48 UTC
From: Garey Barrell
Topic: 2901 Message: 2912

Richard Knoppow wrote:
>>
>> Gary, what have you found to be the best cleaner for
>> the gears? Obviously, some solvents are going to be as bad
>> or worse for the plastic as the oil is.
>>
>>
>>
> Richard -
>
> I use 97% alcohol and a toothbrush. One of the features of nylon is
> its resistance to solvents. Supposedly you could use gasoline,
> kerosene, turpentine, mineral oil, etc., etc......
>
> I think the key is to not soak them in anything. Dunk in alcohol,
> brush with a stiff bristled brush, dunk again until clean. DON'T dunk
> in solvent and then go to lunch! :-)
>
> I'm not sure what the mechanism is that allows grease to cause the
> gears to swell, (IF that's really what happens,) I'm not certain that
> the problem isn't just hardened grease inside the bore of the gear.
> If you've ever disassembled an old greased mechanism, there is a
> "varnish" that plates surfaces that has to be chipped off with a metal
> tool! I think this is what this procedure is actually "sanding" off.
>
> The KEY factor here is that nylon gears are intended to run "dry", and
> NO lubricant is needed or desired.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
I just found this site. Looks like nylon is resistant to anything but
vinegar!?!?! (Acetic Acid)

<http://www.k-mac-plastics.net/data
sheets/nylon_chemical_resistance_chart.htm>

2913. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 16:05:34 UTC
From: Garey Barrell
Topic: 2901 Message: 2913

Jim Shorney wrote:
> On Wed, 30 Dec 2009 21:29:23 -0500, Garey Barrell wrote:
>
>
>> Richard is correct about the grease that some insist on putting on the
>> nylon gears.
>>
> It seems that not all grease is bad. I have found grease on the gears in a
> couple of pieces of 7-Line gear that I am reasonably sure have never been
> tinkered with by owners, including the pristine single-owner R-7A that I got
> last year that I am certian had never been opened up since it left the factory.
>
> http://www.mail-archive.com/drakelist@.../msg10089.html
>
Jim -

There ARE greases that are specifically designed for "sliding" nylon surfaces. They are typically "clear". Nylon is very chemical resistant, but nylon gearing is designed to be run "dry".

I'm pretty well convinced that the "swelling" is really varnish accumulation in a relatively tight clearance. A tight clearance is desirable to reduce "chatter" when there is no grease!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

2914. Re: [DrakeRadio] WTB W-4 Watt Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 16:07:08 UTC
From: Big Mike
Topic: 2905 Message: 2914

Get hold of Ron, N7ZM. He was selling his a couple of weeks ago. He's in Carson and may still have it. He takes good care of his equipment.

Happy New Year es 73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2915. Re: [DrakeRadio] WTB W-4 Watt Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 16:10:33 UTC
From: Joe
Topic: 2905 Message: 2915

Thanks Mike...Already talked to Ron...I am a day late, dollar short! Oh well....Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Big Mike" <k5vse@...>
Subject: Re: [DrakeRadio] WTB W-4 Watt Meter

> Get hold of Ron, N7ZM. He was selling his a couple of weeks ago. He's in
> Carson and may still have it. He takes good care of his equipment.

2916. Re: [DrakeRadio] Re: R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 16:30:43 UTC
From: Garey Barrell
Topic: 2901 Message: 2916

Curt -

Good information! (Some snipped).

As you say, Nylon IS hygroscopic, but it's a relatively slow process as opposed to fast (like a sponge!) So 40 or so years "immersed" in grease ... I believe my "varnish" is at least a part of your "hardened thickener/fillers", and are the real culprit in the binding of the gear sets.

The tight shaft clearances are a requirement to prevent "chattering" or "rattling" inherent in gear trains.

Interesting discussion!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Having worked on a lot of equipment and mechanisms over the years (not just amateur radio), the major issue with applying grease of any kind to these kind of gearsets is that they attract and hold dust and crud..
>
>
> Nylon is hygroscopic / Hydrophillic in that it absorbs moisture and swells. (not sure of the chemistry here...the first is water absorbtion..like a sponge, the second is actual molecular bonding of the molecules within the material) the only white or natural color plastic that does not (at least amounts not significant) is UHMW Polyethylene. (Ultra High Molecular Weight). Delrin is better in this respect than nylon but still absorbs and swells slightly. So, in the case of nylon gears, they will absorb the oils out of the grease and leave the hardened thickener/fillers behind. They also swell slightly which could conceivably bind up a shaft or gear interface. It is more a problem on close fitting shafts than gear teeth, as the clearances on the teeth are always greater and the swelling is minor.
>
>

2917. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 16:04:31 UTC
From: Butch Housman
Topic: 2901 Message: 2917

It sounds like there r folks on both sides of this to lube or not to lube issue.

I have seen nylon gears come w/ some grease on them. I would think u could also use a small amount of mica on brass or nylon. Should be nonconductive & dry....never tried it ??? It's a common reloading material, a little bit will do u.

b

[Non-text portions of this message have been removed]

2918. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 17:10:27 UTC
From: Garey Barrell
Topic: 2901 Message: 2918

Actually, I don't think there are "two sides" to the discussion.

1. Lube is not required (recommended?) for Nylon gear sets.

2. The PROPER grease isn't a problem.

3. Automobile wheel bearing grease is NOT a proper grease! :-)

It's almost 2010. Happy New Year to all!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Butch Housman wrote:
> It sounds like there r folks on both sides of this to lube or not to lube issue.
>
> I have seen nylon gears come w/ some grease on them. I would think u could also use a small amount of mica on brass or nylon. Should be nonconductive& dry....never tried it ??? It's a common reloading material, a little bit will do u.
>
> b
>
>
>

2919. Re: [DrakeRadio] R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2009-12-31 17:47:20 UTC
From: Richard Knoppow
Topic: 2901 Message: 2919

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, December 31, 2009 9:10 AM
Subject: Re: [DrakeRadio] R4B dial drag adjustment?

> Actually, I don't think there are "two sides" to the
> discussion.
>
> 1. Lube is not required (recommended?) for Nylon gear
> sets.
>
> 2. The PROPER grease isn't a problem.
>
> 3. Automobile wheel bearing grease is NOT a proper
> grease! :-)
>
> It's almost 2010. Happy New Year to all!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

First of all, Happy New Year to you and the list members. I hope its a better year for most of us than this one has been.

FWIW, I _have_ seen lubricated plastic gears, but I don't know what plastic they are made of. These are the gears in Sony video tape machines used in broadcasting. We use grease obtained from Sony for these, I have no idea what it is but it looks like Lubriplate of some sort. These are slow speed, low load gears used for positioning the turntables to accommodate various sized cassettes. The gears in the cassette elevator do not appear to be lubricated. Grease is also used on some of the sliding surfaces.

A web search did not produce much useful information. Nylon and Delrin are made in different types several of which are self-lubricating due to the impregnation of the material with a lubricant. This seems to be a Teflon containing material although mention is also made of graphite.

BTW, "Lubriplate" turns out to be the trade-name of a company rather than a specific grease. The Lubriplate company makes a variety of lubricants of different types,

mostly under the Lubriplate name. The stuff in the small
tubes appears to be a silicon based grease with lithium
filler but Lubriplate also makes petroleum based greases.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2920. Re: R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-01 00:15:05 UTC
From: DD
Topic: 2901 Message: 2920

"Nylon and Delrin are made in different types several of
which are self-lubricating due to the impregnation of the
material with a lubricant."???

Now we're getting scary. Self lubricating plastic, sounds chemically reactive to me..hihi..Also reminds me of some "super gear lubricant" that a salesman was plying to my father when Dad was a Port Engineer for a towboat company. This "super gear lubricant" ""actually penetrated the metal in the gear to enhance lubrication""...well, only problem was, this was when stuff actually came in metal cans...He had no answer when Dad asked him, "If it penetrates the metal gear, how does it stay in the can?" Case closed on that one.

As for plastic gear lubricant,,,"To lubricate or not to lubricate, that remains the question"..

HAPPY NEW YEAR

DD

2921. Re: [DrakeRadio] Re: R4B dial drag adjustment?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-01 01:32:32 UTC
From: Carl McLelland
Topic: 2901 Message: 2921

I can't stand it any more...

You need to identify the material involved before you can determine if it should be lubricated or not. Plastics and synthetics are petroleum based polymere's. As such, and dependant upon their molecular structure and the applied lubricant you may have a breakdown of and/or absorption into the original material. The same holds true for metallic compounds; again depandant on what is in the lubricant and the porosity of the metal.

Lubricant is applied to a surface subject to torque and rotational force to act (1) as a lubricant to preserve the original surfaces and (2) carry away heat. And someone made mention of this, in a non-sterile environment a lubricated surface will cause foreign material to adhere.

Bottom line: don't lube it....

As for the "super gear lubricant" not leaking through the can.... That dates back to about 1955 or 56 and it was called "Steen C". It was a pure chemical lubricant most often used in race engines. Penetration was only into the first (or surface) molecular level...

Happy New Year and 73's...
Carl KF7GJO

----- Original Message -----
From: DD
To: DrakeRadio@yahoogroups.com
Sent: Thursday, December 31, 2009 4:15 PM
Subject: [DrakeRadio] Re: R4B dial drag adjustment?

"Nylon and Delrin are made in different types several of
which are self-lubricating due to the impregnation of the
material with a lubricant."???

Now we're getting scary. Self lubricating plastic, sounds chemically reactive to me..hihi..Also reminds me of some "super gear lubricant" that a salesman was plying to my father when Dad was a Port Engineer for a towboat company. This "super gear lubricant" ""actually penetrated the metal in the gear to enhance lubrication""...well, only problem was, this was when stuff actually came in metal cans...He had no answer when Dad asked him, "If it penetrates the metal gear, how does it stay in the can?" Case closed on that one.

As for plastic gear lubricant,,,"To lubricate or not to lubricate, that remains the question"..

HAPPY NEW YEAR

DD

[Non-text portions of this message have been removed]

2922. Re: [DrakeRadio] WTB W-4 Watt Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-01 22:59:02 UTC
From: Big Mike
Topic: 2905 Message: 2922

Can't say I didn't try. Wasn't aware you knew Ron. He's been a friend of mine for over 30 years or so. We are all part of the Pupule group that used to meet on 7288 for many years. I left CA in '99 and sort of lost track. Conditions just aren't that good on 40 from Arkansas to California. I think I've made contact less than a dozen times.

Happy New Year

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

2923. Re: Drake ps7 power supply wiring information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 14:48:07 UTC
From: alex7younger
Topic: 2853 Message: 2923

Many thanks to Jim Shorney NU06 for putting me onto the page of Stefan DL7MAJ . This has helped me sort out the wiring for my PS7 which is now switching on and receiving. I may also attempt the mod. that Stefan has designed to prevent initial power surge to the TR7. If anyone should need this wiring information in future I have sketched and photographed it and will happily pass it on.
happy new year to all
73`s
Alex G0RMN

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
>
> The two versions are electrically identical, the earlier version used
> point-to-point wiring whereas the later version consolidated much of the
> internal wiring onto a printed circuit board mounted to the rear panel. Thery
> are pictures of both versions in DL7MAJ's article on inrush current that may or
> may not be helpful to you:
>
> http://www.dl7maj.de/PS7-Inrush.pdf
>
> In any case, I wouuld verify the wire colors with an ohmmeter before you plug
> in. Color codes can vary in undocumented ways, and you could let some smoke out
> if there is an error.
>
> 73
>
> -Jim
>
>
> On Mon, 28 Dec 2009 19:45:21 -0000, alex7younger wrote:
>
> >Can anyone please tell me the correct wiring for the Drake ps7 10 pin lead after it enters the ps7 chassis. The leads have been cut off by a previous owner and I`m trying to reconnect them.I have a circuit diagram but it seems to relate to a newer model of ps7 than the one I own which has the number 2000 and i know they go up to at least 9000 by which time they appear to be quite a bit different inside.
> >the colours of the leads are :6 in number
> >1 black, 2 yellow, and 3 orange, thin wires
> >4 white screened.
> >5 black, and 6 white, thick wires I think these are the power wires
> >Some of the wires I can possibly work out but I`m especially interested in where to solder the black and white power wires
> >Any help would be greatly appreciated
> >many thanks in advance and 73`s
> >

> >
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

2924. Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 17:54:45 UTC
From: captcurt2000
Topic: 2924 Message: 2924

Anyone else catch the TR3 and AC4 that just went separately for $750.00??!!!

Amazing.

2925. Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 17:59:23 UTC
From: captcurt2000
Topic: 2925 Message: 2925

HNY All:

Well, I'm gonna show my age/ignorance of new tech now..

I've been using the TR7 for a bit and really like it. Even with the B sitting next to it.

But...tell me your procedure for getting exactly on another stations frequency using CW.

I'm close but never right on. it seems to depend on ones abillity to set the incoming rx to the offset freq consistently.

I guess I've been using the twins in sep mode too long. Never had to deal with RIT and offset CW.

With alot of ops using 200Hz filters, you can't miss by much and still get heard.

Anyway, please share you techniques.

Curt
KU8L
SKCC 5380T

2926. Re: [DrakeRadio] Re: Drake ps7 power supply wiring information

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 18:14:54 UTC
From: Jim Shorney
Topic: 2853 Message: 2926

On Sat, 02 Jan 2010 14:48:07 -0000, alex7younger wrote:

>
>Many thanks to Jim Shorney NU0C for putting me onto the page of Stefan DL7MAJ . This has helped me sort out the wiring for my PS7 which is now switching on and receiving.

Glad it was helpful to you, Alex. Have fun!

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2927. Re: [DrakeRadio] Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 18:38:00 UTC
From: Gary Woods
Topic: 2925 Message: 2927

On Sat, 02 Jan 2010 17:59:23 -0000, you wrote:

>But...tell me your procedure for getting exactly on another stations frequency using CW.

If you've got a reasonably musical ear, set the rx so the station you want
to match is exactly the same pitch (800Hz?) as your sidetone. I can hear a
few Hz difference as sharp or flat, and I don't think I'm unusual (well,
you know...)

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/6 in upstate New York, 1420' elevation. NY WO G

2928. Re: Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 18:55:55 UTC
From: JC
Topic: 2925 Message: 2928

I am pretty tone deaf so have to use something else besides my ears.
I split the audio out from my TR7 (to external speaker and to the input on my PC). Have CWget running on the PC and have already set the pointer (of CWget) to the exact sidetone frequency of the TR7. Then I tune the TR7 RX so that the other station's signal lines up on CWget pointer ... dead on.
73/Crit/K4BXN

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> HNY All:
>
> Well, I'm gonna show my age/ignorance of new tech now..
>
> I've been using the TR7 for a bit and really like it. Even with the B sitting next to it.
>
> But...tell me your procedure for getting exactly on another stations frequency using CW.
>
> I'm close but never right on. it seems to depend on ones abillity to set the incoming rx to the offset freq consistently.
>
> I guess I've been using the twins in sep mode too long. Never had to deal with RIT and offset CW.
>
> With alot of ops using 200Hz filters, you can't miss by much and still get heard.
>
> Anyway, please share you techniques.
>
> Curt
> KU8L
> SKCC 5380T
>

2929. Re: [DrakeRadio] Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 19:01:38 UTC
From: Garey Barrell
Topic: 2925 Message: 2929

Curt -

Yeah, it's not easy. Matching to tones works, _IF_ the 'other'
station is using the same sideband that you are. It was easy with the 4
Series, the transmitter was always on LSB (CW), and the receiver
'favored' LSB for CW (bandwidths of the Passband Tuner all line up).
THEN came the "new" rigs that used USB for CW, and receivers that could
be set to either sideband, with neither one 'favored'.

This is yet another reason I prefer the Passband tuner filter 'slopes'
over crystal filters. I also typically use the 1.5 / 1.8kHz bandwidth.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> HNY All:
>
> Well, I'm gonna show my age/ignorance of new tech now..
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> With alot of ops using 200Hz filters, you can't miss by much and still get heard.
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> Anyway, please share you techniques.
>
> Curt
> KU8L
> SKCC 5380T
>
>

2930. Re: FAILED S - Meter (s) on DRAKE SPR - 4 (s)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 19:11:59 UTC
From: Hans-Joachim Empel
Topic: 2930 Message: 2930

Hello to the group ,

I have a small question about DRAKE SPR - 4 Signalmeter (S) Meter

I am the Owner of 4 SPR-4(s) and i have a Problem on all four receivers.
I have no signal indication on all 4 S-Meters in (AM . CW , LSB , USB).
The S - Meter Needles are staying all left side below S - 0

The RX (s) are receiving very good and without problems in all modes.
Also the signalstrenght is excellent , i need the Gain - Poti not more open as one quarter (1/4) open , the signals are loud and clear.

If i am using the Receiver of my TR-7 for reference , the Signalstrenght at the TR-7 is between S 9 and S 9+20 as Signalindication.

Has anybody an idear , why this can be happen that i have no Signalstrenght - Indication on the S - Meters for my SPR - 4(s) ?????

Any Idear Help ore Solution from the Specialists are welcome.

Kind Regards and a HAPPY NEW YEAR 2010 from Germany

Joachim
DL2388RB

(sorry about my poor english , i have to learn a bit more english).

[Non-text portions of this message have been removed]

2931. Re: [DrakeRadio] Re: FAILED S - Meter (s) on DRAKE SPR - 4 (s)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 19:55:35 UTC
From: Garey Barrell
Topic: 2930 Message: 2931

Joachim -

I've never owned an SPR-4, so can't speak from firsthand experience.

The Drake manual is excellent, with all the information that Drake left out of the other manuals, such as board layout, voltage charts, etc., [shameless plug] (but IS on my CD's!)

First, I would say it is extremely unlikely that all four receivers would have the same failure! Were all of these receivers obtained second-hand from the same source?

The S-Meter circuit essentially measures the AVC voltage, and there is an internal mod to 'turn the AVC off'" that is described in the manual. This is the most likely situation, IF all came from the same source. If not, a good portion of the S-Meter circuit is inside an IC, and perhaps that IC is unreliable, but I haven't seen anything to indicate this.

So.... I would suggest downloading the manual, if you don't already have it, from Mods-dk site.

<http://www.mods.dk/manual.php?brand=drake>

"SPR-4 Technical Manual" ~ 15 MB.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
>
> Hello to the group ,
>
> I have a small question about DRAKE SPR - 4 Signalmeter (S) Meter
>
> I am the Owner of 4 SPR-4(s) and i have a Problem on all four receivers.
> I have no signal indication on all 4 S-Meters in (AM . CW , LSB , USB).
> The S - Meter Needles are staying all left side below S - 0
>
> The RX (s) are receiving very good and without problems in all modes.
> Also the signalstrenght is excellent , i need the Gain - Poti not more open as one quarter (1/4) open , the signals are loud and clear.
>
> If i am using the Receiver of my TR-7 for reference , the Signalstrenght at the TR-7 is between S 9 and S 9+20 as Signalindication.

>
> Has anybody an idear , why this can be happen that i have no Signalstrenght - Indication on the S - Meters for my SPR - 4(s) ?????
>
> Any Idear Help ore Solution from the Specialists are welcome.
>
> Kind Regards and a HAPPY NEW YEAR 2010 from Germany
>
> Joachim
> DL2388RB
>
> (sorry about my poor english , i have to learn a bit more english).
>
>
>

2932. Re: [DrakeRadio] Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-02 20:16:38 UTC
From: Jim Shorney
Topic: 2925 Message: 2932

On Sat, 02 Jan 2010 14:01:38 -0500, Garey Barrell wrote:

>THEN came the "new" rigs that used USB for CW, and receivers that could
>be set to either sideband, with neither one 'favored'.

Add to that mix, the TR-7 shifts the transmitter from the dial reading, while "other" radios shift the receiver from the dial reading. A subtle difference, but an important one when someone asks you to meet them on "xx.050" MHz.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2933. Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 04:31:19 UTC
From: jim_n9ww
Topic: 2924 Message: 2933

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Anyone else catch the TR3 and AC4 that just went separately for $750.00??!!!
>
> Amazing.
>

Who was the seller? Radio-Mart?
73,
Jim N9WW

2934. Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 14:30:04 UTC
From: captcurt2000
Topic: 2924 Message: 2934

Nope..straight auction by a user with a 1 area call for user ID.

It was listed as being in very good condx and the PA, in another listing, was listed as having the Heath Store upgrade.

The AC-4 went for over 300. !!

Many bidders on each also.

--- In DrakeRadio@yahoogroups.com, "jim_n9ww" <jimc@...> wrote:
>
>
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> >
> > Anyone else catch the TR3 and AC4 that just went separately for $750.00??!!!
> >
> > Amazing.
> >
>
> Who was the seller? Radio-Mart?
> 73,
> Jim N9WW
>

2935. Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 14:38:28 UTC
From: Tom Delano
Topic: 2924 Message: 2935

Hi Jim,

The ebay seller was actually me. I am thinning out my Drake collection to make room in the shack for a nice B-Line I just refurbished and took my chances selling the TR-3 and AC-4R on ebay.

73,

Tom, W1CC

2936. Re: Getting tx on freq cw TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 14:39:02 UTC
From: captcurt2000
Topic: 2925 Message: 2936

Thanks Guys..the tone match works well for me..was a horn player for years. I had to go back and see that the offset and sidetone come from the same place.

Now..this seems like another use for the worthless "store" button. press for a sidetone to match with.

Did work stations in every call area except HI in the last two days for the SKCC straight key anniversary event. Most were easy single calls, barefoot to a Windom 40. HI is a tough path with 100W and a dipole on 20M!

Having fun with it tho.

Need to find a RV-7.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sat, 02 Jan 2010 14:01:38 -0500, Garey Barrell wrote:
>
> >THEN came the "new" rigs that used USB for CW, and receivers that could
> >be set to either sideband, with neither one 'favored'.
>
>
> Add to that mix, the TR-7 shifts the transmitter from the dial reading, while
> "other" radios shift the receiver from the dial reading. A subtle difference,
> but an important one when someone asks you to meet them on "xx.050" MHz.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney

> http://www.nebraskaghosts.org
>

2937. WTB: Vibroplex EK-1 Brass Racer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 14:43:42 UTC
From: Joel Levy
Topic: 2937 Message: 2937

Although not Drake equipment it can be and is used with the TR-4/TR-7 .My EK-1 went south and it's hopefully being repaired at Vibroplex but I need a replacement. 73, Joel AE2JL

[Non-text portions of this message have been removed]

2938. RE: [DrakeRadio] Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 14:44:25 UTC
From: Jim Chaggaris
Topic: 2924 Message: 2938

Hi Tom,

Well, looks like the price was right! J

Maybe I'll list one of my AC-4's w/AC4R PS upgrade.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Tom Delano
Sent: Sunday, January 03, 2010 8:38 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Epay price for TR3??!!

Hi Jim,

The ebay seller was actually me. I am thinning out my Drake collection to make room in the shack for a nice B-Line I just refurbished and took my chances selling the TR-3 and AC-4R on ebay.

73,

Tom, W1CC

[Non-text portions of this message have been removed]

2939. Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-03 16:37:52 UTC
From: TomD
Topic: 2924 Message: 2939

Jim,

Go for it!

As we know, the AC-4 (and AC-3) doesn't get better with age. The now +40 year old AC-4s, I am convinced, are just accidents waiting to happen unless the filter caps are upgraded and a three-wire grounded power cord installed.

We in the Drake collector and restoration community need to get the word out to the newer members about the potential hazards with the aging AC-4/AC-3 supplies and encourage them to perform these upgrades if they can.

By the way, I am, like many hams, a very satisfied customer of the Sunlight Energy Systems AC-4R upgrade and have no financial interest.

Best.

Tom, W1CC

--- In DrakeRadio@yahoogroups.com, "Jim Chaggaris" <jimc@...> wrote:
>
> Hi Tom,
>
>
>
> Well, looks like the price was right! J
>
>
>
> Maybe I'll list one of my AC-4's w/AC4R PS upgrade.
>
> 73,
>
> Jim N9WW
>
>
>
>
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> James Chaggaris
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> President
>
> PowerOne Corp./PowerOne Environmental
>
> 1020 Cedar Avenue
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> Suite 203
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> St. Charles, IL 60174
>
> Phn: (630) 443-6500
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> Website: www.pwrone.com
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>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Tom Delano
> Sent: Sunday, January 03, 2010 8:38 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Re: Epay price for TR3??!!
>
>
>
>
>
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> chances selling the TR-3 and AC-4R on ebay.
>
> 73,
>
> Tom, W1CC
>
>
>
>
>
> [Non-text portions of this message have been removed]

>

2940. Re: [DrakeRadio] Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-04 00:59:48 UTC
From: Richard Knoppow
Topic: 2924 Message: 2940

----- Original Message -----
From: "TomD" <tom_delano@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, January 03, 2010 8:37 AM
Subject: [DrakeRadio] Re: Epay price for TR3??!!

> Jim,
>
> Go for it!
>
> As we know, the AC-4 (and AC-3) doesn't get better with
> age. The now +40 year old AC-4s, I am convinced, are just
> accidents waiting to happen unless the filter caps are
> upgraded and a three-wire grounded power cord installed.
>
> We in the Drake collector and restoration community need
> to get the word out to the newer members about the
> potential hazards with the aging AC-4/AC-3 supplies and
> encourage them to perform these upgrades if they can.
>
> By the way, I am, like many hams, a very satisfied
> customer of the Sunlight Energy Systems AC-4R upgrade and
> have no financial interest.
>
> Best.
>
> Tom, W1CC

Is this the same as the Heathkit Shop upgrade? If so I
am considering getting one for my AC-4. It seems to get
universally good reviews.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2941. RE: [DrakeRadio] Re: Epay price for TR3??!!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-04 01:17:18 UTC
From: Jim Chaggaris
Topic: 2924 Message: 2941

Richard,

Yes, it's the same and it's better to do it now than later. If the caps give out on your AC-4, the finals could be taken out as well.

I learned the hard way with a Hygain/Galaxy GT-550A a few weeks ago. I put off ordering replacement caps for the PS and one cap failed taking out the 6LB6 finals as well as a few other items in the radio. Better to be safe than sorry.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow
Sent: Sunday, January 03, 2010 7:00 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Epay price for TR3??!!

----- Original Message -----
From: "TomD" <tom_delano@... <mailto:tom_delano%40comcast.net> >

To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Sunday, January 03, 2010 8:37 AM
Subject: [DrakeRadio] Re: Epay price for TR3??!!

> Jim,
>
> Go for it!
>
> As we know, the AC-4 (and AC-3) doesn't get better with
> age. The now +40 year old AC-4s, I am convinced, are just
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> Best.
>
> Tom, W1CC

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am considering getting one for my AC-4. It seems to get
universally good reviews.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@... <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

2942. Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-05 19:14:26 UTC
From: skipp025
Topic: 1664 Message: 2942

Hello to the Group...

I received a direct Email regarding some information on one of the www.radiowrench.com/siltronix web pages. In specific the use of Tarn-X and similar cleaners on switch contacts. The Email author mentioned the below post so I joined this group, found the original Dec 08 post and would like to comment on the Subject.

> December 2008
> Garey Barrell <k4oah@...> wrote:
> This comes up every once in a while, but Tarn-X on switch
> wafers is a _VERY_ bad idea.

When properly used in moderation, it works very well. But it should be completely displaced after application.

> First of all, the black silver sulphide on the wafers
> is very soft, and does no harm to the continuity of the
> switch.

I don't agree, it is a residue and when allowed to build can cause intermittent switch operation. Especially on lower cost wafer switch assemblies with modestly light wiper contact pressure.

> If you look closely at a wafer that is blackened, you will
> see a very fine line of silver showing through, which is
> where the contact area is.

When the contact is being made, not always the case.

> The sulphide is very soft, and is easily displaced by
> the wiping action of the switch in normal operation.

"Silver Sulfide" (or Silver Sulphide in British English)

Not soft enough and not always well displaced by the wiping action of every wafer switch in normal operation. Prove it to yourself by trying to carefully displace the the black oxide film on a spare vintage wafer switch contact. Try a red rubber pencil eraser and see how easy that tarnish is displaced.

> If a switch is unused for a period of time, the sulphide
> will "grow" back,

The rate of which depends on the atmosphere where the
equipment is placed. One can limit and restrict the rate
with smart application of other treatments applied after
the contacts have been proper cleaned.

> but merely exercising the switch will restore operation.

I have not found the above to be the case in every example.
In fact I have found the exercise method to produce
problematic and inconsistent results.

> DeoxIT does help in cleaning and "protecting"
> the bright silver stripe, and slows the reforming of
> the sulphide.

I do agree...

> The other thing about sulphide is that it is
> "self-limiting", i.e., once it covers the bright silver,
> it stops "growing".

When a classic consumer electronics wafer switch contact
is dark black, it is probably intermittent and just
exercising it does not always restore 100% contact/operation.

> On the other hand, Tarn-X is a chemical that in conjunction
> with moisture from the air actually corrodes the
> brass/copper base of the switch parts, and causes
> considerable damage if not removed entirely.

So the key issue is to use and displace it completely.

> Anyone who has worked on much electronic equipment has
> seen switches that have been damaged beyond repair by
> application and incomplete removal of "silver cleaners",
> both chemical and abrasive.

But not a lot of chemically damaged beyond repair equipment
in any alarming amount... there will always be people
who jump in to a repair with the wrong tools, chemicals and
equipment. "You can't fix stupid..."

> They are for cleaning silverware, NOT for electronic
> equipment.

Let's just say we have a difference of opinion. With the
proper use and care, Tarn-X can become a very useful
compound to have as a cleaning chemical resource.

> By the way, DeoxIT is NOT an effective cleaner for silver
> cleaner residue,

Has that been a problem somewhere?

> FLUSHING the area with a lot of water or alcohol is
> required to remove it.

I often recommend non-residue leaving electronic contact cleaner sprays to displace compounds. It would be good news to advise the person seeking information to read the spray cleaner label to ensure it is both non residue and compatible with all the materials in and around the switch contacts.

> Bottom line is that silver cleaners have no business in
> electronic equipment, and cause far more harm than good.

I don't agree... it's my opinion they have their place when properly used and removed as part of a complete wafer switch contact recondition procedure.

> If you plan to display your receiver with the bottom
> off so viewers can see the bright, (non-functional}
> rotary switch parts, silver cleaners are useful...

So the complete story must be told... if you use some specific contact cleaners, they must be completely displaced/removed. Simple enough...

> Sorry for the rant, but I have seen more than a few
> switches damaged by silver cleaners that reduced
> the equipment to a parts unit.

I've seen more than a few wafer switch contacts made unusable by silver tarnish build-up of which "exercising" does not reliably fix in every case. The tarnish build-up is not as soft as you would hope it to be...

If you proper clean and treat older wafer switch contacts they are clearly able to better perform their job better.

cheers,
skipp

skipp025 at yahoo.com

2943. Re: [DrakeRadio] Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-05 20:38:04 UTC
From: Garey Barrell
Topic: 1664 Message: 2943

Skipp -

I have no problem "agreeing to disagree"! :-)

You make several excellent points in your rebuttal to my original post. I believe the "disagreement" is caused by my tendency to think that someone who asks how or what to do, they probably don't have much (if any) experience in the area.

Yes, as you say, most any chemical "cleaner" can be safely used IF you remove any residue completely. Seemingly a minor point, but no matter how much you emphasize the facts, a person without experience (see above) is almost certainly not going to follow through, read all the labels and consider the chemical residue that may or may not remain.

Along the same lines, I cringe at the thought of this same person pushing picks, Q-Tips and other tools around the fixed contacts of a phenolic rotary switch that is "A" fairly delicate, and "B" essentially irreplaceable. Especially when it is almost certainly not necessary to enable reliable operation.

Yes, I have seen switch wafers that have been blackened with Silver Sulfide and/or other unknown chemical reactions, possibly from "contact cleaners" sprayed indiscriminately. I'm not a chemist, but I have seen switch wafers with a black, HARD coating that resisted several types of cleaning. My contention is that this switch and associated electronic device is going to need more help than contact cleaning! :-)

So, perhaps I underestimate the capabilities of the questioner, but I'd rather err on the side of caution than have someone damage their unit beyond repair when "I did just exactly what ... said to do!", and now my radio doesn't work at all.

Thanks for taking the time to comment, and stick around if you have any interest in Drake equipment!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

skipp025 wrote:
> Hello to the Group...
>
> I received a direct Email regarding some information on
> one of the www.radiowrench.com/siltronix web pages. In

> specific the use of Tarn-X and similar cleaners on switch
> contacts. The Email author mentioned the below post so I
> joined this group, found the original Dec 08 post and would
> like to comment on the Subject.
>
>
>> December 2008
>> Garey Barrell<k4oah@...> wrote:
>> This comes up every once in a while, but Tarn-X on switch
>> wafers is a _VERY_ bad idea.
>>
> Snip>>>>>>>>>

2944. RE: [DrakeRadio] Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-05 20:59:34 UTC
From: Joel Levy
Topic: 1664 Message: 2944

Garey, I agree with you. Being in the chemical business for 50 years you have to be VERY CAREFUL. Many " chemicals" today will attack older phenolic resins. If you don't know the composition of the chemical cleaner stay away.
73, Joel AE2JL

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Tuesday, January 05, 2010 3:38 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: R4B receiver help

Skipp -

I have no problem "agreeing to disagree"! :-)

You make several excellent points in your rebuttal to my original post. I believe the "disagreement" is caused by my tendency to think that someone who asks how or what to do, they probably don't have much (if any) experience in the area.

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So, perhaps I underestimate the capabilities of the questioner, but I'd rather err on the side of caution than have someone damage their unit beyond repair when "I did just exactly what ... said to do!", and now my radio doesn't work at all.

Thanks for taking the time to comment, and stick around if you have any interest in Drake equipment!

73, Garey - K4OAH
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skipp025 wrote:
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> I received a direct Email regarding some information on
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>> This comes up every once in a while, but Tarn-X on switch
>> wafers is a _VERY_ bad idea.
>>
> Snip>>>>>>>>>

[Non-text portions of this message have been removed]

2945. No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 00:00:02 UTC
From: drakesforu
Topic: 2945 Message: 2945

My Sidetone pot is at max but I have no sidetone to monitor cw when transmitting. What is this 58 year old overlooking? :)

j

2946. Re: [DrakeRadio] No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 03:16:08 UTC
From: Garey Barrell
Topic: 2945 Message: 2946

Sidetone cable connected?

Does it work in TUNE mode?

Is V7 a 6AU6?

Is V7 Hot?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> My Sidetone pot is at max but I have no sidetone to monitor cw when transmitting. What is this 58 year old overlooking? :)
>
> j
>
>
>

2947. Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 04:54:00 UTC
From: lrtaft1
Topic: 1664 Message: 2947

Garey is ever the diplomat.

What I said a couple of years ago after taking in two TR-4s for repair that had been "Tarn-Xed" was : Tarnex is a urea based compound so in essence you are pissing in the radio to try and clean the switches. The residue is very conductive when exposed to the DC voltages in the tube radios so arcing across the wafer and /or the rotor to shaft causes gross failure of the insulation. The rotor has several little nooks and crannies that capture the Tarn-X and it is very difficult to ensure that ALL the crap is cleaned out.

Shipp, if you'd like to practice your skills on replacing the switch sections I can sell you a fixer upper pretty cheap.

73, Larry K2LT
drakerepair.com

--- In DrakeRadio@yahoogroups.com, Joel Levy <jlevy01@...> wrote:
>
> Garey, I agree with you. Being in the chemical business for 50 years you
> have to be VERY CAREFUL. Many " chemicals" today will attack older phenolic
> resins. If you don't know the composition of the chemical cleaner stay away.
> 73, Joel AE2JL
>
>
>
> _____
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell
> Sent: Tuesday, January 05, 2010 3:38 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Re: R4B receiver help
>
>
>
>
>
>
> Skipp -
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> I have no problem "agreeing to disagree"! :-)
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> You make several excellent points in your rebuttal to my original post.
> I believe the "disagreement" is caused by my tendency to think that
> someone who asks how or what to do, they probably don't have much (if
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> irreplaceable. Especially when it is almost certainly not necessary to
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> Yes, I have seen switch wafers that have been blackened with Silver
> Sulfide and/or other unknown chemical reactions, possibly from "contact
> cleaners" sprayed indiscriminately. I'm not a chemist, but I have seen
> switch wafers with a black, HARD coating that resisted several types of
> cleaning. My contention is that this switch and associated electronic
> device is going to need more help than contact cleaning! :-)
>
> So, perhaps I underestimate the capabilities of the questioner, but I'd
> rather err on the side of caution than have someone damage their unit
> beyond repair when "I did just exactly what ... said to do!", and now my
> radio doesn't work at all.
>
> Thanks for taking the time to comment, and stick around if you have any
> interest in Drake equipment!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> skipp025 wrote:
> > Hello to the Group...
> >
> > I received a direct Email regarding some information on
> > one of the www.radiowrench.com/siltronix web pages. In
> > specific the use of Tarn-X and similar cleaners on switch
> > contacts. The Email author mentioned the below post so I
> > joined this group, found the original Dec 08 post and would
> > like to comment on the Subject.
> >
> >
> > >> December 2008
> > >> Garey Barrell<k4oah@> wrote:
> > >> This comes up every once in a while, but Tarn-X on switch
> > >> wafers is a _VERY_ bad idea.
> > >>
> > > Snip>>>>>>>>>
>

>
>
>
>
> [Non-text portions of this message have been removed]
>

2948. Re: [DrakeRadio] Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 05:42:08 UTC
From: Richard Knoppow
Topic: 1664 Message: 2948

----- Original Message -----
From: "lrtaft1" <ltaft@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, January 05, 2010 8:54 PM
Subject: [DrakeRadio] Re: R4B receiver help

> Garey is ever the diplomat.
>
> What I said a couple of years ago after taking in two
> TR-4s for repair that had been "Tarn-Xed" was : Tarnex is
> a urea based compound so in essence you are pissing in the
> radio to try and clean the switches. The residue is very
> conductive when exposed to the DC voltages in the tube
> radios so arcing across the wafer and /or the rotor to
> shaft causes gross failure of the insulation. The rotor
> has several little nooks and crannies that capture the
> Tarn-X and it is very difficult to ensure that ALL the
> crap is cleaned out.
>
> Shipp, if you'd like to practice your skills on replacing
> the switch sections I can sell you a fixer upper pretty
> cheap.
>
> 73, Larry K2LT
> drakerepair.com
>
Tarn-X contains thiourea which is a reducing agent. Its purpose is to convert silver oxide back into metallic silver. I am not sure what it does to silver sulfide, which is a much more stable compound and harder to remove. It also contains sulfamic acid.
My experience with switches is that Tarn-X is no more effective than contact cleaner. I have found on some switches that a small amount of Tuner-Lube will keep them quiet for a long time. An example is the band width switch in my Hammarlund SP-600 which was perpetually noisy. I tried all sorts of things on it but nothing was more effective than De-Oxit and that for only a few days. I then tried cleaning it with De-Oxit followed by 99% spray Isopropyl alcohol and coated with just a bit of Tuner-Lube. Its stayed quiet for perhaps a year now. I don't know if this would work on a Drake receiver but its worth a try.
I got the spray alcohol at Fry's, a computer chain. The purity of the alcohol is really a measure of the amount of water in it. Pure alcohol which is allowed to be in contact

with the air will eventually absorb moisture until it
becomes 91% which is an equilibrium point. Dry alcohol is
important for some uses since it will evaporate without
leaving moisture behind. The spray stuff stays dry in the
can. It is the next best thing to tri-chlor.
I am pretty sure Tuner-Lube is safe on Bakelite wafers
and is not conductive.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2949. Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 09:32:59 UTC
From: drakesforu
Topic: 2945 Message: 2949

Sidetone cable is connected
Does not work in Tune mode.
V7 is a 6AU6
V7 is lit. Did not check voltages.

Still no sidetone.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Sidetone cable connected?
>
> Does it work in TUNE mode?
>
> Is V7 a 6AU6?
>
> Is V7 Hot?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2950. Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 09:56:55 UTC
From: drakesforu
Topic: 2945 Message: 2950

Makes no difference if the sidetone cable is connected or not so something may be open. Any suggestions?

john

--- In DrakeRadio@yahoogroups.com, "drakesforu" <jshea109@...> wrote:
>
> Sidetone cable is connected
> Does not work in Tune mode.
> V7 is a 6AU6
> V7 is lit. Did not check voltages.
>
> Still no sidetone.
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Sidetone cable connected?
> >
> > Does it work in TUNE mode?
> >
> > Is V7 a 6AU6?
> >
> > Is V7 Hot?
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
>

2951. Re: [DrakeRadio] Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 15:06:33 UTC
From: Garey Barrell
Topic: 2945 Message: 2951

OK. I think this is a C Line.?

I'm assuming the relay pulls in?

Check the following in descending order of likelihood.

Bad Open/Shorted cable.

"Spread" RCA jack at either end.

Bad R86.

Bad/Dead V9B

Bad S-1A(Front)

DC Voltage checks are next.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> Makes no difference if the sidetone cable is connected or not so something may be open.
Any suggestions?
>
> john
>
> --- In DrakeRadio@yahoogroups.com, "drakesforu"<jshea109@...> wrote:
>
>> Sidetone cable is connected
>> Does not work in Tune mode.
>> V7 is a 6AU6
>> V7 is lit. Did not check voltages.
>>
>> Still no sidetone.
>>
>> john
>>
>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>
>>> Sidetone cable connected?
>>>
>>> Does it work in TUNE mode?
>>>
>>> Is V7 a 6AU6?

>>>
>>> Is V7 Hot?
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>

2952. Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 15:11:45 UTC
From: drakesforu
Topic: 2945 Message: 2952

R-4B Garey

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> OK. I think this is a C Line.?
>
> I'm assuming the relay pulls in?
>
> Check the following in descending order of likelihood.
>
> Bad Open/Shorted cable.
>
> "Spread" RCA jack at either end.
>
> Bad R86.
>
> Bad/Dead V9B
>
> Bad S-1A(Front)
>
> DC Voltage checks are next.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

2953. Re: [DrakeRadio] Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 15:56:42 UTC
From: Garey Barrell
Topic: 2945 Message: 2953

Using it with a T-4XB?

73, Garey - K4OAH
Glen Allen, VA

drakesforu wrote:
> R-4B Garey
>
> john
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> OK. I think this is a C Line.?
>>
>> I'm assuming the relay pulls in?
>>
>> Check the following in descending order of likelihood.
>>
>> Bad Open/Shorted cable.
>>
>> "Spread" RCA jack at either end.
>>
>> Bad R86.
>>
>> Bad/Dead V9B
>>
>> Bad S-1A(Front)
>>
>> DC Voltage checks are next.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>

2954. Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 16:11:50 UTC
From: skipp025
Topic: 1664 Message: 2954

> Garey Barrell <k4oah@...> wrote:
> Skipp -
> I have no problem "agreeing to disagree"! :-)

Thank you Garey and nice to meet up with you and the other Group Members. I try to keep these sort of conversations informal and provide the information as best I can. It's been my experience that many of the people on the other side of an issue seem to take any type of disagreement as a personal attack and then the topic gets derailed. I'm very happy to see everyone's replies are very civil and informative, which is what this sort of Group should be about.

> You make several excellent points in your rebuttal to
> my original post. I believe the "disagreement" is
> caused by my tendency to think that someone who asks
> how or what to do, they probably don't have much
> (if any) experience in the area.

I have the same tendencies... and sometimes it can take a tremendous amount of time trying to explain the proper methods to get things done. And of course when you're dealing with an "I can't wait" type of person things can and sometimes are "over-looked".

> Yes, as you say, most any chemical "cleaner" can be safely
> used IF you remove any residue completely. Seemingly a
> minor point, but no matter how much you emphasize the
> facts, a person without experience (see above) is almost
> certainly not going to follow through, read all the labels
> and consider the chemical residue that may or may not remain.

On some of the other Groups I frequent... we try to beat the drum loud enough to ensure the information gets clearly posted. But sometimes you've got to beat the reader in the side of the head before you hit the drum... and even that doesn't always work.

> Along the same lines, I cringe at the thought of this same
> person pushing picks, Q-Tips and other tools around the
> fixed contacts of a phenolic rotary switch that is "A"
> fairly delicate, and "B" essentially irreplaceable.
> Especially when it is almost certainly not necessary to
> enable reliable operation.

Golden Screwdriver types often dive in regardless of what you
write or say... we've all seen their train-wrecks.

> Yes, I have seen switch wafers that have been blackened
> with Silver Sulfide and/or other unknown chemical reactions,
> possibly from "contact cleaners" sprayed indiscriminately.
> I'm not a chemist, but I have seen switch wafers with a
> black, HARD coating that resisted several types of cleaning.
> My contention is that this switch and associated electronic
> device is going to need more help than contact cleaning! :-)

Coatings can be removed in most cases, damage to the base
metal structure is the bad news and re-plating wafer switch
contacts is actually pretty easy. Just a question of how in-depth
you want to go with a repair.

> So, perhaps I underestimate the capabilities of the
> questioner, but I'd rather err on the side of caution
> than have someone damage their unit beyond repair
> when "I did just exactly what ... said to do!", and
> now my radio doesn't work at all.

I totally understand... I normally would not advise a newbie
to do certain tasks unless I was fairly convinced of their
sincere effort to try and correctly do a procedure.

> Thanks for taking the time to comment, and stick around
> if you have any interest in Drake equipment!
> 73, Garey - K4OAH
> Glen Allen, VA

Thank you for the kind words and I'll hang around. I'm on the
prowl for a Drake 2NT Transmitter. I'm interested in the T/R
Switching Circuit and comparing the operation to a Heathkit
HW-16.

cheers,
skipp

skipp025 at yahoo.com

2955. Re: R4B receiver help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 16:41:55 UTC
From: skipp025
Topic: 1664 Message: 2955

Hi Larry,

>"lrtaft1" <ltaft@...> wrote:
> Garey is ever the diplomat.

I was very pleasantly surprised and pleased to read his
very civil reply.

> Tarn-X is a urea based compound so in essence you are pissing
> in the radio to try and clean the switches.

Tarn-X is a thiourea based compound and mostly water.
Only similar to urea, except that the oxygen atom is replaced
by a sulfur atom and The properties of urea and thiourea
differ significantly...

> The residue is very conductive when exposed to the DC
> voltages in the tube radios so arcing across the wafer
> and /or the rotor to shaft causes gross failure of the
> insulation. The rotor has several little nooks and
> crannies that capture the Tarn-X and it is very difficult
> to ensure that ALL the crap is cleaned out.

So the key is to ensure the power supply is clearly turned
completely off and disconnected from any source.

If you use certain types of cleaning chemicals during
service, some of them must be properly and completely
removed.

> Shipp, if you'd like to practice your skills on
> replacing the switch sections I can sell you a fixer
> upper pretty cheap.
> 73, Larry K2LT
> drakerepair.com

Thanks but I'm OK with work right now...

I've got a shop full of "fixer-uppers" waiting in line to
be restored after my land-mobile radio service work-load
queue drops. The paying customers get my attention first so
I can keep the lights on.

If the radio you're talking about actually needs wafer
switch sections replaced, I could and would be able to do
it and I also probably have the parts in stock (I've been
in the business that long) but the bigger questions are:
would it be cost effective and completed in a timely

manner?

cheers,
skipp

skipp025 at yahoo.com
www.radiowrench.com

2956. Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 17:12:41 UTC
From: drakesforu
Topic: 2945 Message: 2956

That's correct Garey.

john

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Using it with a T-4XB?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
>
> drakesforu wrote:
> > R-4B Garey
> >
> > john
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> OK. I think this is a C Line.?
> >>
> >> I'm assuming the relay pulls in?
> >>
> >> Check the following in descending order of likelihood.
> >>
> >> Bad Open/Shorted cable.
> >>
> >> "Spread" RCA jack at either end.
> >>
> >> Bad R86.
> >>
> >> Bad/Dead V9B
> >>
> >> Bad S-1A(Front)
> >>
> >> DC Voltage checks are next.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >
>

2957. Re: [DrakeRadio] Re: No Transmit Sidetone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 18:24:00 UTC
From: Garey Barrell
Topic: 2945 Message: 2957

OK. The only difference is R86 in the old message is now R87.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> That's correct Garey.
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Using it with a T-4XB?
>> drakesforu wrote:
>>
>>> R-4B Garey
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> OK. I think this is a C Line.?
>>>>
>>>> I'm assuming the relay pulls in?
>>>>
>>>> Check the following in descending order of likelihood.
>>>>
>>>> Bad Open/Shorted cable.
>>>>
>>>> "Spread" RCA jack at either end.
>>>>
>>>> Bad R86.
>>>>
>>>> Bad/Dead V9B
>>>>
>>>> Bad S-1A(Front)
>>>>
>>>> DC Voltage checks are next.
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> Yahoo! Groups Links
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2958. Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 18:34:29 UTC
From: drakesforu
Topic: 2958 Message: 2958

Purchased the Bose around ear headphones and noticed a substantial amount of ac hum. Can a capacitor be placed across the headphone jack on the R-4B? If so what size?

thanks

john

2959. Re: [DrakeRadio] Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 18:44:42 UTC
From: Garey Barrell
Topic: 2958 Message: 2959

Resistor in series with the phones is a better solution.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
> Purchased the Bose around ear headphones and noticed a substantial amount of ac hum. Can a capacitor be placed across the headphone jack on the R-4B? If so what size?
>
> thanks
>
> john
>
>

2960. Re: [DrakeRadio] Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 23:12:19 UTC
From: Richard Knoppow
Topic: 2958 Message: 2960

----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 10:34 AM
Subject: [DrakeRadio] Headphone Hum

> Purchased the Bose around ear headphones and noticed a
> substantial amount of ac hum. Can a capacitor be placed
> across the headphone jack on the R-4B? If so what size?
>
> thanks
>
> john
>
Check the power supply for ripple. The increased low
frequency response of the phones may be making hum which has
been there audible. I noticed 120 hz hum in my RX and found
the first filter cap section was bad. I use relatively high
sensitivity phones on my set and do not observe hum.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2961. Re: [DrakeRadio] Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 23:27:12 UTC
From: Garey Barrell
Topic: 2958 Message: 2961

Also possible.

Quick check... Where do you set the AF GAIN control for a comfortable listening level with your phones?

"Good" phones have more low frequency response than Drake considered when designing the AF Amp.

If very low, probably a sensitivity problem. If 10 - 11 o'clock, probably a power supply problem. If power supply problem, you could try reducing the value of C167 to 0.01 uF or lower. This will reduce the low frequency response of the amplifier, but if you go too far, SSB will sound "thin" and low CW tones will be reduced in level.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "drakesforu"<jshea109@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, January 06, 2010 10:34 AM
> Subject: [DrakeRadio] Headphone Hum
>
>
>
>> Purchased the Bose around ear headphones and noticed a
>> substantial amount of ac hum. Can a capacitor be placed
>> across the headphone jack on the R-4B? If so what size?
>>
>> thanks
>>
>> john
>>
>>
> Check the power supply for ripple. The increased low
> frequency response of the phones may be making hum which has
> been there audible. I noticed 120 hz hum in my RX and found
> the first filter cap section was bad. I use relatively high
> sensitivity phones on my set and do not observe hum.
>
>
> --

> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ---
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> Yahoo! Groups Links
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>

2962. Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-06 23:51:44 UTC
From: drakesforu
Topic: 2958 Message: 2962

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Also possible.
>
> Quick check... Where do you set the AF GAIN control for a comfortable
> listening level with your phones?

At the 8 O'Clock position.

>
> "Good" phones have more low frequency response than Drake considered
> when designing the AF Amp.
>
> If very low, probably a sensitivity problem. If 10 - 11 o'clock,
> probably a power supply problem. If power supply problem, you could try
> reducing the value of C167 to 0.01 uF or lower. This will reduce the
> low frequency response of the amplifier, but if you go too far, SSB will
> sound "thin" and low CW tones will be reduced in level.

Perhaps I should buy another headphone set!! I bought these for the extreme comfort and lightness. Prior to this I had the Heil ProSet Plus and liked them but after awhile they felt like a waterdowned mop on my head.

>
> 73, Garey - K4OAH
> Glen Allen, VA

2963. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 00:08:39 UTC
From: Rotten Robbie
Topic: 2958 Message: 2963

The R4 book shows the Rx is made for Low-Z headphones.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 3:51 PM
Subject: [DrakeRadio] Re: Headphone Hum

>
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>>
>> Also possible.
>>
>> Quick check... Where do you set the AF GAIN control for a comfortable
>> listening level with your phones?
>
> At the 8 O'Clock position.
>
>>
>> "Good" phones have more low frequency response than Drake considered
>> when designing the AF Amp.
>>
>> If very low, probably a sensitivity problem. If 10 - 11 o'clock,
>> probably a power supply problem. If power supply problem, you could try
>> reducing the value of C167 to 0.01 uF or lower. This will reduce the
>> low frequency response of the amplifier, but if you go too far, SSB will
>> sound "thin" and low CW tones will be reduced in level.
>
> Perhaps I should buy another headphone set!! I bought these for the
> extreme comfort and lightness. Prior to this I had the Heil ProSet Plus
> and liked them but after awhile they felt like a waterdowned mop on my
> head.
>
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>

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> ------------------------------------
>
> Yahoo! Groups Links
>
>
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2964. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 01:15:34 UTC
From: Richard Knoppow
Topic: 2958 Message: 2964

----- Original Message -----
From: "Rotten Robbie" <rottenrobbie0@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 4:08 PM
Subject: Re: [DrakeRadio] Re: Headphone Hum

> The R4 book shows the Rx is made for Low-Z headphones.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

The headphone jack is paralleled with the loudspeaker with a contact in the jack to cut out the loudspeaker. You could as well connect the speaker to the headphone jack. The RX does not seem to be critical of load impedance.
I just checked the audibility of residual hum and normal AF gain position with several pairs of headphones with impedances varying from about 20 ohms to 20,000 ohms. The only ones I hear any residual hum on are the 20 ohm pair. These are cheap Radio Shack Hi-Fi phones which have a switch for mono. The impedance is what is measured with this switch in mono. The hum is very low level and really audible only if I turn the RF gain all the way down. It is independant of the AF gain position. These phones are very sensitive so that comfortable listening level is with the AF gain just cracked a little. The other phones are of various types but at least one has good low frequency responce. The comfortable listening level with all is about 1.5 to 2 notches up from minimum. I can't hear the residual hum in any of them.
So, there is just a little hum but unless these phones are extremely sensitive it should not be audible. If comfortable level is with the AF gain control just cracked, as it is with my Radio Shack phones you might want to make a simple attenuator to go between the phones and the radio. If the AF level for normal listening is higher than just cracked and you still hear hum investigate the filter caps.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2965. Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 01:25:37 UTC
From: drakesforu
Topic: 2958 Message: 2965

Thanks Richard.
What is long overdue is update my power supply to the mod The Heathkit Shop puts out. Going to order it tomorrow.

john

> The headphone jack is paralleled with the loudspeaker
> with a contact in the jack to cut out the loudspeaker. You
> could as well connect the speaker to the headphone jack. The
> RX does not seem to be critical of load impedance.
> I just checked the audibility of residual hum and
> normal AF gain position with several pairs of headphones
> with impedances varying from about 20 ohms to 20,000 ohms.
> The only ones I hear any residual hum on are the 20 ohm
> pair. These are cheap Radio Shack Hi-Fi phones which have a
> switch for mono. The impedance is what is measured with this
> switch in mono. The hum is very low level and really audible
> only if I turn the RF gain all the way down. It is
> independant of the AF gain position. These phones are very
> sensitive so that comfortable listening level is with the AF
> gain just cracked a little. The other phones are of various
> types but at least one has good low frequency responce. The
> comfortable listening level with all is about 1.5 to 2
> notches up from minimum. I can't hear the residual hum in
> any of them.
> So, there is just a little hum but unless these phones
> are extremely sensitive it should not be audible. If
> comfortable level is with the AF gain control just cracked,
> as it is with my Radio Shack phones you might want to make a
> simple attenuator to go between the phones and the radio. If
> the AF level for normal listening is higher than just
> cracked and you still hear hum investigate the filter caps.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

2966. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 01:42:00 UTC
From: Al
Topic: 2958 Message: 2966

While we are on the subject of hum, I have a question. I have a R-4B that I am in the process of replacing the old electrolytic capacitors and was wondering if I should be up grading any of the caps capacity wise?

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Wed, 1/6/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: Re: [DrakeRadio] Re: Headphone Hum
To: DrakeRadio@yahoogroups.com
Date: Wednesday, January 6, 2010, 6:15 PM

----- Original Message -----

From: "Rotten Robbie" <rottenrobbie0@ yahoo.com>

To: <DrakeRadio@yahoogro ups.com>

Sent: Wednesday, January 06, 2010 4:08 PM

Subject: Re: [DrakeRadio] Re: Headphone Hum

> The R4 book shows the Rx is made for Low-Z headphones.

>

> Bob Macklin

> K5MYJ

> Seattle, Wa.

The headphone jack is paralleled with the loudspeaker

with a contact in the jack to cut out the loudspeaker. You

could as well connect the speaker to the headphone jack. The

RX does not seem to be critical of load impedance.

I just checked the audibility of residual hum and

normal AF gain position with several pairs of headphones

with impedances varying from about 20 ohms to 20,000 ohms.

The only ones I hear any residual hum on are the 20 ohm pair. These are cheap Radio Shack Hi-Fi phones which have a switch for mono. The impedance is what is measured with this switch in mono. The hum is very low level and really audible only if I turn the RF gain all the way down. It is independant of the AF gain position. These phones are very sensitive so that comfortable listening level is with the AF gain just cracked a little. The other phones are of various types but at least one has good low frequency responce. The comfortable listening level with all is about 1.5 to 2 notches up from minimum. I can't hear the residual hum in any of them.

So, there is just a little hum but unless these phones are extremely sensitive it should not be audible. If comfortable level is with the AF gain control just cracked, as it is with my Radio Shack phones you might want to make a simple attenuator to go between the phones and the radio. If the AF level for normal listening is higher than just cracked and you still hear hum investigate the filter caps.

--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

2967. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 01:43:09 UTC
From: Rotten Robbie
Topic: 2958 Message: 2967

If the hum is unrepentant of the audio gain position it is probably power
supply ripple getting through the output transformer.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 5:15 PM
Subject: Re: [DrakeRadio] Re: Headphone Hum

>
> ----- Original Message -----
> From: "Rotten Robbie" <rottenrobbie0@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, January 06, 2010 4:08 PM
> Subject: Re: [DrakeRadio] Re: Headphone Hum
>
>
>> The R4 book shows the Rx is made for Low-Z headphones.
>>
>> Bob Macklin
>> K5MYJ
>> Seattle, Wa.
>
> The headphone jack is paralleled with the loudspeaker
> with a contact in the jack to cut out the loudspeaker. You
> could as well connect the speaker to the headphone jack. The
> RX does not seem to be critical of load impedance.
> I just checked the audibility of residual hum and
> normal AF gain position with several pairs of headphones
> with impedances varying from about 20 ohms to 20,000 ohms.
> The only ones I hear any residual hum on are the 20 ohm
> pair. These are cheap Radio Shack Hi-Fi phones which have a
> switch for mono. The impedance is what is measured with this
> switch in mono. The hum is very low level and really audible
> only if I turn the RF gain all the way down. It is
> independant of the AF gain position. These phones are very
> sensitive so that comfortable listening level is with the AF
> gain just cracked a little. The other phones are of various
> types but at least one has good low frequency responce. The
> comfortable listening level with all is about 1.5 to 2
> notches up from minimum. I can't hear the residual hum in

> any of them.
> So, there is just a little hum but unless these phones
> are extremely sensitive it should not be audible. If
> comfortable level is with the AF gain control just cracked,
> as it is with my Radio Shack phones you might want to make a
> simple attenuator to go between the phones and the radio. If
> the AF level for normal listening is higher than just
> cracked and you still hear hum investigate the filter caps.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

2968. R-4A Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 02:12:37 UTC
From: randyinaura
Topic: 2968 Message: 2968

Hello to the group. Does anyone have a digital copy of the manual for the R-4A receiver? Mine happens to be the 13-tube model, S/N 2875. Thanks for any help you can give.
73,
Randy - K8HRO

2969. Re: [DrakeRadio] R-4A Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 03:11:44 UTC
From: Ron WW5G
Topic: 2968 Message: 2969

Randy
I could send it to you but you can download it from Bama I have the same receiver.
Ron WW5G

randyinaura wrote:
>
> Hello to the group. Does anyone have a digital copy of the manual for
> the R-4A receiver? Mine happens to be the 13-tube model, S/N 2875.
> Thanks for any help you can give.
> 73,
> Randy - K8HRO
>
>

2970. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 03:32:02 UTC
From: Garey Barrell
Topic: 2958 Message: 2970

OK. Remember that the AF stages run at full volume ALL the time. The output level is determined by how much signal is applied at the input to the amp.

So. With NO signal applied, the s/n ratio is all noise, no signal. When you apply a little AF with the AF GAIN control, the s/n ratio is stil pretty bad. It's not until you apply more audio (AF GAIN to 10 - 11 o'clock) that the s/n ratio begins to get good.

The 'fix' is to put a resistor in series with the headphones, either in the plug or in the receiver, so that you have to turn the AF GAIN up to get to listening level. The source impedance is very low, probably an ohm or two, so the impedance of the phones is the controlling factor. If you have 8 ohm phones, and 8 ohm series resistor will drop the level by 3 dB. Not much. With a 78 ohm resistor, the level drops to about ~10%. Easiest is if you have a 2-500 ohm pot, put it in series, set it to 500 ohms. Turn the AF GAIN up to about 11 o'clock and then turn reduce the series pot until the AF level is what you want. Then either leave the pot or measure the resistance and sub a close resistor.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

drakesforu wrote:
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Also possible.
>>
>> Quick check... Where do you set the AF GAIN control for a comfortable
>> listening level with your phones?
>>
> At the 8 O'Clock position.
>
>
>> "Good" phones have more low frequency response than Drake considered
>> when designing the AF Amp.
>>
>> If very low, probably a sensitivity problem. If 10 - 11 o'clock,
>> probably a power supply problem. If power supply problem, you could try

>> reducing the value of C167 to 0.01 uF or lower. This will reduce the
>> low frequency response of the amplifier, but if you go too far, SSB will
>> sound "thin" and low CW tones will be reduced in level.
>>
> Perhaps I should buy another headphone set!! I bought these for the extreme comfort and lightness. Prior to this I had the Heil ProSet Plus and liked them but after awhile they felt like a waterdowned mop on my head.
>
>

2971. Re: [DrakeRadio] R-4A Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 03:49:42 UTC
From: Rotten Robbie
Topic: 2968 Message: 2971

Three of the 4 Drake R4-Line manuals on BAMA are in djvu format.

I have converted those 3 to pdf.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Ron WW5G" <fbaker@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 7:11 PM
Subject: Re: [DrakeRadio] R-4A Manual

> Randy
> I could send it to you but you can download it from Bama I have the same
> receiver.
> Ron WW5G
>
> randyinaura wrote:
>>
>> Hello to the group. Does anyone have a digital copy of the manual for
>> the R-4A receiver? Mine happens to be the 13-tube model, S/N 2875.
>> Thanks for any help you can give.
>> 73,
>> Randy - K8HRO
>>
>>
>
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>
>
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>
> Yahoo! Groups Links
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2972. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 04:45:37 UTC
From: Richard Knoppow
Topic: 2958 Message: 2972

----- Original Message -----
From: "drakesforu" <jshea109@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 5:25 PM
Subject: [DrakeRadio] Re: Headphone Hum

>
> Thanks Richard.
> What is long overdue is update my power supply to the mod
> The Heathkit Shop puts out. Going to order it tomorrow.
>
> john
>
I know the Heathkit shop makes an upgrade for the AC-4
power supply, do they make one for the R-4B also? The input
cap went bad on mine and I have makeshifted a cap under the
chassis but don't like that sort of thing. I suppose I could
restuff the can but it would be nice if I can get one ready
made. I will check their web site. I discovered the cap was
bad because I could hear 120 hz ripple in the speaker.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2973. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 05:26:40 UTC
From: Al
Topic: 2958 Message: 2973

Contact Tom at Hayseed Hamfest company, he has a capacitor kits for the R-4B. His email is, tom@... he will take good care of you.

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Wed, 1/6/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: Re: [DrakeRadio] Re: Headphone Hum
To: DrakeRadio@yahoogroups.com
Date: Wednesday, January 6, 2010, 9:45 PM

----- Original Message -----

From: "drakesforu" <jshea109@triad. rr.com>

To: <DrakeRadio@yahoogro ups.com>

Sent: Wednesday, January 06, 2010 5:25 PM

Subject: [DrakeRadio] Re: Headphone Hum

>

> Thanks Richard.

> What is long overdue is update my power supply to the mod

> The Heathkit Shop puts out. Going to order it tomorrow.

>

> john

>

I know the Heathkit shop makes an upgrade for the AC-4

power supply, do they make one for the R-4B also? The input

cap went bad on mine and I have makeshifted a cap under the

chassis but don't like that sort of thing. I suppose I could

restuff the can but it would be nice if I can get one ready

made. I will check their web site. I discovered the cap was

bad because I could hear 120 hz ripple in the speaker.

--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

2974. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 06:00:38 UTC
From: Richard Knoppow
Topic: 2958 Message: 2974

----- Original Message -----
From: "Al" <mebareit@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 06, 2010 9:26 PM
Subject: Re: [DrakeRadio] Re: Headphone Hum

Contact Tom at Hayseed Hamfest company, he has a capacitor
kits for the R-4B. His email is, tom@... he
will take good care of you.

Al, n7ioh

Thanks, I would like to do it the right way. Also, my
experience is that when one cap in a can goes bad the others
will follow pretty soon.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2975. Blue plasic foil for my Drake equipment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 10:12:43 UTC
From: Hans-Joachim Empel
Topic: 2975 Message: 2975

Hello to the Group ,
i am looking for my DRAKE TR-7 equipment for some blue plastic foil.
My RV-7 shines more Green as Blue , that looks awfull.

Has anybody an idear how to organisse this kind of plastic foil ????

Regards from Germany
Joachim

[Non-text portions of this message have been removed]

2976. 300Hz TR7 filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 10:53:51 UTC
From: captcurt2000
Topic: 2976 Message: 2976

Good Morning All:

I have the Drake 500Hz and 300Hz filters in my TR7. Is it normal for the output to drop 10dB going to the 300Hz? Level remains same going from 2.3kHz to 500Hz but drops thru the 300. Not talking about the APPARENT level reduction do to reduced noise bandwidth but a real level drop as seen in Spectran.

2977. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 14:54:17 UTC
From: Garey Barrell
Topic: 2958 Message: 2977

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Al"<mebareit@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, January 06, 2010 9:26 PM
> Subject: Re: [DrakeRadio] Re: Headphone Hum
>
>
> Contact Tom at Hayseed Hamfest company, he has a capacitor
> kits for the R-4B. His email is, tom@... he
> will take good care of you.
>
> Al, n7ioh
>
>
> Thanks, I would like to do it the right way. Also, my
> experience is that when one cap in a can goes bad the others
> will follow pretty soon.
>
>
> --
> Richard Knoppow
>
Absolutely.

A cap under the chassis is ok for a temporary fix, but since loss of electrolyte is the usual cause of cap failure, and all the sections in a 'multi-section' cap share the same electrolyte ...

It's also not a good idea to just bridge a single cap across the failed cap section. Loss of electrolyte is often followed by dead short.

Best, and easiest, fix is Hayseed Hamfest's multi-section replacement that drops right in. He also includes the other individual electrolytics that might as well get the ax while you're in there.

Well, it "drops right in" _AFTER_ you unsolder the old can from the chassis!! NOT a trivial pursuit. Many vacuum desoldering tools don't have enough heating power to melt solder on a chassis. Best I've found is one of the old fashioned spring loaded "Solda-Pult" devices with a BIG iron or even solder gun. Don't forget also that the insulation on the wire Drake used is _EXTREMELY_ heat sensitive. A careless soldering iron can destroy a wiring harness bundle in a fraction of a second.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

2978. RE: [DrakeRadio] 300Hz TR7 filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 15:34:52 UTC
From: Steve Finch
Topic: 2976 Message: 2978

Try moving the Passband tuning back and forth to see if the noise level comes up. It may be that the IF frequency is within the bandwidth of the 500 hz filter, but on the skirts of the 300 hz. If this is the case, then the IF needs to be shifted to center in the 300 hz filter. Spectran will help you do this.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of captcurt2000
Sent: Thursday, January 07, 2010 3:54 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] 300Hz TR7 filter

Good Morning All:

I have the Drake 500Hz and 300Hz filters in my TR7. Is it normal for the output to drop 10dB going to the 300Hz? Level remains same going from 2.3kHz to 500Hz but drops thru the 300. Not talking about the APPARENT level reduction do to reduced noise bandwidth but a real level drop as seen in Spectran.

[Non-text portions of this message have been removed]

2979. Re: Blue plasic foil for my Drake equipment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 17:33:19 UTC
From: drakesforu
Topic: 2975 Message: 2979

You must contact Indiana Jones to find both the white and blue filters.
Let me know also when you find them.

john

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Hello to the Group ,
> i am looking for my DRAKE TR-7 equipment for some blue plastic foil.
> My RV-7 shines more Green as Blue , that looks awfull.
>
> Has anybody an idear how to organisse this kind of plastic foil ????
>
> Regards from Germany
> Joachim
>
> [Non-text portions of this message have been removed]
>

2980. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 17:48:09 UTC
From: Garey Barrell
Topic: 993 Message: 2980

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C
Lines and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

2981. Re: [DrakeRadio] Blue plasic foil for my Drake equipment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 17:48:46 UTC
From: Joe
Topic: 2975 Message: 2981

Hi Joachim!

Is this what you are looking for??

http://cgi.ebay.com/Drake-TR-filter-set_W0QQitemZ330391703449QQcmdZViewItemQQptZLH_Default
Domain_0?hash=item4cece14f99

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Hans-Joachim Empel" <hajoempel@...>
Subject: [DrakeRadio] Blue plasic foil for my Drake equipment

> Hello to the Group ,
> i am looking for my DRAKE TR-7 equipment for some blue plastic foil.
> My RV-7 shines more Green as Blue , that looks awfull.

2982. Re: Blue plasic foil for my Drake equipment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 18:24:37 UTC
From: drakesforu
Topic: 2975 Message: 2982

The MOST important filter is the white one. I made the mistake of purchasing these important blue filters but without the white filter you will still have a terrible looking green dial. The white filter may appear white but is really yellow and this is what causes the greenish looking dial.

If anyone knows a source of the white filters please let me know.
Thanks.

john

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> Hi Joachim!
>
> Is this what you are looking for??
>
> http://cgi.ebay.com/Drake-TR-filter-set_W0QQitemZ330391703449QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item4cece14f99
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada

2983. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 20:31:27 UTC
From: Michael Shelly
Topic: 2958 Message: 2983

I have a set of Kenwood communications phones think the h8 I hear a little hum on my IC765 and when I tried using them on my Collins they are really bad. I picked up a set of Army surplus phones and they sound great on the Collins and the Icom. So sensitivity and impeadence does matter.

Mike
WB2KKI

From: Rotten Robbie <rottenrobbie0@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, January 6, 2010 7:08:39 PM
Subject: Re: [DrakeRadio] Re: Headphone Hum

The R4 book shows the Rx is made for Low-Z headphones.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "drakesforu" <jshea109@triad. rr.com>
To: <DrakeRadio@yahoogro ups.com>
Sent: Wednesday, January 06, 2010 3:51 PM
Subject: [DrakeRadio] Re: Headphone Hum

>
>
>
>
>
> --- In DrakeRadio@yahoogro ups.com, Garey Barrell <k4oah@...> wrote:
>>
>> Also possible.
>>
>> Quick check... Where do you set the AF GAIN control for a comfortable
>> listening level with your phones?
>
> At the 8 O'Clock position.
>
>>
>> "Good" phones have more low frequency response than Drake considered
>> when designing the AF Amp.
>>
>> If very low, probably a sensitivity problem. If 10 - 11 o'clock,
>> probably a power supply problem. If power supply problem, you could try

>> reducing the value of C167 to 0.01 uF or lower. This will reduce the
>> low frequency response of the amplifier, but if you go too far, SSB will
>> sound "thin" and low CW tones will be reduced in level.
>
> Perhaps I should buy another headphone set!! I bought these for the
> extreme comfort and lightness. Prior to this I had the Heil ProSet Plus
> and liked them but after awhile they felt like a waterdowned mop on my
> head.
>
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

2984. Re: [DrakeRadio] Re: Headphone Hum

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-07 20:46:43 UTC
From: Richard Knoppow
Topic: 2958 Message: 2984

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 07, 2010 6:54 AM
Subject: Re: [DrakeRadio] Re: Headphone Hum

>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From: "Al"<mebareit@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Wednesday, January 06, 2010 9:26 PM
>> Subject: Re: [DrakeRadio] Re: Headphone Hum
>>
>>
>> Contact Tom at Hayseed Hamfest company, he has a
>> capacitor
>> kits for the R-4B. His email is, tom@...
>> he
>> will take good care of you.
>>
>> Al, n7ioh
>>
>>
>> Thanks, I would like to do it the right way. Also,
>> my
>> experience is that when one cap in a can goes bad the
>> others
>> will follow pretty soon.
>>
>>
>> --
>> Richard Knoppow
>>
> Absolutely.
>
> A cap under the chassis is ok for a temporary fix, but
> since loss of electrolyte is the usual cause of cap
> failure, and all the sections in a 'multi-section' cap
> share the same electrolyte ...
>
> It's also not a good idea to just bridge a single cap
> across the failed cap section. Loss of electrolyte is
> often followed by dead short.
>
```

> Best, and easiest, fix is Hayseed Hamfest's multi-section
> replacement that drops right in. He also includes the
> other individual electrolytics that might as well get the
> ax while you're in there.
>
> Well, it "drops right in" _AFTER_ you unsolder the old
> can from the chassis!! NOT a trivial pursuit. Many
> vacuum desoldering tools don't have enough heating power
> to melt solder on a chassis. Best I've found is one of
> the old fashioned spring loaded "Solda-Pult" devices with
> a BIG iron or even solder gun. Don't forget also that the
> insulation on the wire Drake used is _EXTREMELY_ heat
> sensitive. A careless soldering iron can destroy a wiring
> harness bundle in a fraction of a second.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
I certainly agree about not bridging bad caps. I
disconnected the bad section all together. Leakage of
electrolyte is not the only failure mode for electrolytics,
for instance, there can be changes in the paper separators
that cause leakage to go up. While most are familiar with
"ESR" that is series resistance and the problem with both
electrolytics and paper caps used in some applications is
parallel resistance, AKA leakage. This can cause the cap to
heat up which accelerates the failure.
I've written to Tom asking for details of the
replacement kit. He has an announcement that some types of
multiple section caps are not available because of a
supplier problem, I hope the one I need is not among them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

2985. BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-08 12:38:30 UTC
From: VE3FMC
Topic: 2985 Message: 2985

I recently acquired two Drake Tr-4's. One came with an amplified Turner Plus 3, the other with a non amplified D-104 (looks like the standard cartridge)

The one TR-4C sounds pretty good on the air with the Turner. The other, a TR-4 sounds like crap with the D-104. Tinny, no lows at all with that mic.

Now before I start changing mic plus to test mics, (the TR-4 has the 3/8" phono jack, the TR-4C has the 1/4") I would like to see which mic others run with their TR-4's.

I want to get rid of that tin sound, I have listened to myself on another receiver and the audio from that mic is brutal to say the least.

Thanks in advance for any advice posted.

73, Rick VE3FMC

2986. Re: [DrakeRadio] BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-08 16:05:36 UTC
From: Garey Barrell
Topic: 2985 Message: 2986

Rick -

The D-104 works fine with the TR-4. Perhaps you have a problem with the TR-4?! Does the audio sound "tinny" on either sideband? The TR-4 is a little different, the same filter is used on different bands because of the mixing scheme. Try listening to your signal on the "normal" sideband, then switch to the other sideband by changing the SIDEBAND switch. IF the audio is "bassy" on the "wrong" sideband, the Carrier Oscillator needs adjusting per the procedure in the manual. If you have "tinny" audio on BOTH positions of the SIDEBAND switch, then there may be a fault in the D-104. Typically D-104s either work, or don't, if the load impedance is correct.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

VE3FMC wrote:
> I recently acquired two Drake Tr-4's. One came with an amplified Turner Plus 3, the other with a non amplified D-104 (looks like the standard cartridge)
>
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> I want to get rid of that tin sound, I have listened to myself on another receiver and the audio from that mic is brutal to say the least.
>
> Thanks in advance for any advice posted.
>
> 73, Rick VE3FMC
>
>

2987. Re: [DrakeRadio] BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-08 20:43:11 UTC
From: Richard Knoppow
Topic: 2985 Message: 2987

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, January 08, 2010 8:05 AM
Subject: Re: [DrakeRadio] BEST MIC FOR A TR-4

> Rick -
>
> The D-104 works fine with the TR-4. Perhaps you have a
> problem with the
> TR-4?! Does the audio sound "tinny" on either sideband?
> The TR-4 is a
> little different, the same filter is used on different
> bands because of
> the mixing scheme. Try listening to your signal on the
> "normal"
> sideband, then switch to the other sideband by changing
> the SIDEBAND
> switch. IF the audio is "bassy" on the "wrong" sideband,
> the Carrier
> Oscillator needs adjusting per the procedure in the
> manual. If you have
> "tinny" audio on BOTH positions of the SIDEBAND switch,
> then there may
> be a fault in the D-104. Typically D-104s either work, or
> don't, if the
> load impedance is correct.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
Assmuming the above test does not turn anything the load impedance may be the problem. Crystal mics want to see an open circuit, their internal impedance is essentially a capacitive reactance. If there is parallel resistance it will cause a loss of low frequencies. Its possible one transmitter has a resistance across the mic jack for some reason.
Have you tested with another mic of a different type?

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

2988. Re: [DrakeRadio] BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 04:58:27 UTC
From: rrkrr
Topic: 2985 Message: 2988

If you have access to a spectrum analyzer with enough bandwith to look at the USB and LSB crystal filters on your TR-4, - or a calibrated signal generator and RF voltmeter for same, you should take a look at the actual sideband filter passbands on your TR-4s. Some of these (especially the early 4 pole filters in the "tin cans") have aged and have changed frequency a bit with time. This can result in cutoff low audio frequency ranges on one sideband or the other. You may need to align the (nominally) 9MHz oscillator with the actual crossover frequency of the upper and lower sideband filters so that the audio sidebands for USB and LSB cover the same frequency ranges.

I use an Electro-Voice Model 638 mike with my TR-4, and have received good reports.

Bob K4ERR

VE3FMC wrote:
>
> I recently acquired two Drake Tr-4's. One came with an amplified
> Turner Plus 3, the other with a non amplified D-104 (looks like the
> standard cartridge)
>
> The one TR-4C sounds pretty good on the air with the Turner. The
> other, a TR-4 sounds like crap with the D-104. Tinny, no lows at all
> with that mic.
>
> Now before I start changing mic plus to test mics, (the TR-4 has the
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> others run with their TR-4's.
>
> I want to get rid of that tin sound, I have listened to myself on
> another receiver and the audio from that mic is brutal to say the least.
>
> Thanks in advance for any advice posted.
>
> 73, Rick VE3FMC
>
>

--

~ ~ ~ ~ ~ ~ ~ ~ ~

"They are the arguments that kings have made for enslaving the people in all ages of the world. You will find that all the arguments in favor of king-craft were of this class; they always bestrode the necks of the

people, not that they wanted to do it, but because the people were better off for being ridden."

Abraham Lincoln, July 10, 1858

2989. Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 11:23:41 UTC
From: VE3FMC
Topic: 2985 Message: 2989

OK as suspected it was the mic. I loaded the rig up into the dummy load and listened to my audio on another rig. Lower and upper sideband both sounded the same.

Changed heads on the D-104 which helped it a little bit. Might have been a bad cartridge in the original head. But the audio still doesn't have a lot of lows. I was told on the air by another Drake owner that is is typical. He had the same problem with a pair of Twins until he changed to an Electro voice 638 mic.

Checked those out, found a couple on Flea Bay and YIKES those are not going cheap!

Thanks for all your help.
73, Rick VE3FMC

--- In DrakeRadio@yahoogroups.com, rrkrr <rrkrr@...> wrote:
>
> If you have access to a spectrum analyzer with enough bandwith to look
> at the USB and LSB crystal filters on your TR-4, - or a calibrated
> signal generator and RF voltmeter for same, you should take a look at
> the actual sideband filter passbands on your TR-4s. Some of these
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> align the (nominally) 9MHz oscillator with the actual crossover
> frequency of the upper and lower sideband filters so that the audio
> sidebands for USB and LSB cover the same frequency ranges.
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> good reports.
>
> Bob K4ERR
>
>
>
>
> VE3FMC wrote:
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> > 3/8" phono jack, the TR-4C has the 1/4") I would like to see which mic

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> > another receiver and the audio from that mic is brutal to say the least.
> >
> > Thanks in advance for any advice posted.
> >
> > 73, Rick VE3FMC
> >
> >
>
>
> --
>
> ~ ~ ~ ~ ~ ~ ~ ~ ~
>
> "They are the arguments that kings have made for enslaving the people in
> all ages of the world. You will find that all the arguments in favor of
> king-craft were of this class; they always bestrode the necks of the
> people, not that they wanted to do it, but because the people were
> better off for being ridden."
>
> Abraham Lincoln, July 10, 1858
>

2990. RV-4 Value

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 11:33:36 UTC
From: VE3FMC
Topic: 2990 Message: 2990

Any idea what an RV-4 with the built in AC4 and speaker would be worth on the market these days?

I have the chance to buy one but do not want to over pay and can not seem to find any for sale online.

Thanks

2991. Re: [DrakeRadio] BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 13:48:37 UTC
From: Butch Housman
Topic: 2985 Message: 2991

>If you have access to a spectrum analyzer with enough bandwith to look
>at the ......- or a calibrated
>signal generator and RF voltmeter for same, you should take a look at
>the actual sideband filter passbands.... "tin cans" have aged and
>.... changed frequency .....This can result in cutoff low
>audio frequency ranges ..... You may need to
>align the ..... 9MHz oscillator with the actual crossover
>frequency ....
> K4ERR

Bob,
I love these kinds of posts, it's like messages from space aliens to primative man abt how to make fire ! I wish I could hang around w/ u for awhile & see just how to do it. Makes me want to buy an old signal generator & align something !
Butch KA4MIC

[Non-text portions of this message have been removed]

2992. Re: [DrakeRadio] RV-4 Value

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 15:24:01 UTC
From: rrkrr
Topic: 2990 Message: 2992

I have an RV-4 and RV-4a. I bought one to fix the other and ended up fixing both. Watched ebay for a while before I got mine, so saw prices vary over a wide range. They seemed to show up for auction in spurts. I would say the power supply by itself is worth $50 if working, and more if it has the update kit with circuit board and new HV diodes and caps installed. You ought to be able to find a decent RV-4 for around $120 or less IMHO, though I've seen them get near $200 in a bidding war. If you have one shipped, make sure they remove the power supply from the case and ship it separately, or you'll wind up with a warped and dented case. Drake manuals had a warning about this.

Bob K4ERR

VE3FMC wrote:
>
>
> Any idea what an RV-4 with the built in AC4 and speaker would be worth
> on the market these days?
>
> I have the chance to buy one but do not want to over pay and can not
> seem to find any for sale online.
>
> Thanks
>
>

--

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Abraham Lincoln, July 10, 1858

2993. selling TR-3 on Ebay...what is it worth?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 15:27:02 UTC
From: CopaDave
Topic: 2993 Message: 2993

I am cleaning out the shack storage and posted my old TR-3 on Ebay last weekend. Not really knowing what it was worth, I set for $75.

This morning I had the blinding insight to post this message, which I should have did last weekend, and see if that is a fair price or if I should go higher or not.

The radio has been in storage for over 20 yrs. The volume knob has a piece missing, but that is the only cosmetic damage (other than routine wear).

I don't know if it powers on or not, but I do have the power supply for it as well.

I'm not shilling for bids, but can someone take a look at it and tell me if I'm too high, or about right? The only bid is from a resaler, and I'd rather see it go to an actual Drake user/lover.

I'm on my cell phone so I can't cut and paste a url, but it's item number 190362476951.

David, N7FAN

2994. Re: [DrakeRadio] Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 15:57:40 UTC
From: Jim Shorney
Topic: 2985 Message: 2994

On Sat, 09 Jan 2010 11:23:41 -0000, VE3FMC wrote:

>
>OK as suspected it was the mic. I loaded the rig up into the dummy load and listened to my audio on another rig. Lower and upper sideband both sounded the same.

Try adding a 470K (or higher) resistor in series with the mic element.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2995. Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 16:19:32 UTC
From: David & Chris Drake
Topic: 2985 Message: 2995

Bob,
D-104's, without the built in amplifier, are good mics for Tr's and Tx's. Many people found that the higher frequency response was very good for DX work. That was well before today's processors and DSP filters. If your D-104 is wired straight through (open the bottom up and see), then it is wired stock, and will sound higher pitched. Some might say a bit "tinney". All depends on your voice. But really, its the lack of low end balance for normal voice characteristics. Definitely a communications mic....period.

Quite often, hams who want to use these mics for normal rag chew or nets add a resistor in series to the element. Actually, the TR4 will like the higher resulting load and you'll not see significant loss of audio. I settled on a 220k resistor in mine to sound best for my voice. A good way to find out is to hook up a substitution box to the mic line and switch in several values to see the difference. I used a guitar amp to listen to myself and determine the needed value. You'll need a high impedance amp to do this, or,... go through the rig and listen to the resulting transmitted signal.

Lastly, you should change back the 1/4" jack to the .208 it was designed for. That way you won't stick your 8 ohm headphones/speaker in the mic jack....thereby potentially causing unecessary grief.

Shure 444's and the like work very well in the TR's with more low end response. I use either the D-104 or a Electrovoice 664d (set to high impedance). I prefer the Electovoice overall.
Good luck,
David
Wd9cmd

[Non-text portions of this message have been removed]

2996. Drake 2B recap question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 16:30:43 UTC
From: ejj@suddenlink.net
Topic: 2996 Message: 2996

I purchased a 2B recently. The owner didn't know history and only said it lit up. I have not turned it on. My plan is to replace electrolytics and tubes. Serial number is 6599. The chassis says it should have a 8BN8 but a 6BN6 has been substituted. The large multisection capacitor has a 20 mfd Sprague elctrolytic that appears to have been added. It runs between the 100mfd lead with a 1500 ohm resistor also attached and the terminal furthest from the front on the terminal strip just under the transformer in rear of chassis.

Questions: Should I switch back to a 8BN8? or does it make any difference?

I have a multsection cap just like the original. Should I replace it and remove the 20 mfd cap? Any ideas on that cap? Maybe added because the original was failing?

Thanks

EJ K5EJ

2997. Re: [DrakeRadio] Drake 2B recap question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 16:42:34 UTC
From: Jim Shorney
Topic: 2996 Message: 2997

On Sat, 09 Jan 2010 16:30:43 -0000, ejj@... wrote:

>Questions: Should I switch back to a 8BN8? or does it make any difference?

Yes, and yes. See:

http://www.wb4hfn.com/DRAKE/DrakeArticles/Why_8BN8-2B.htm

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

2998. Re: Drake 2B recap question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 16:59:40 UTC
From: ejj@suddenlink.net
Topic: 2996 Message: 2998

Thank you for great info and quick reply. 73

EJ

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sat, 09 Jan 2010 16:30:43 -0000, ejj@... wrote:
>
> >Questions: Should I switch back to a 8BN8? or does it make any difference?
>
>
> Yes, and yes. See:
>
> http://www.wb4hfn.com/DRAKE/DrakeArticles/Why_8BN8-2B.htm
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> http://www.nebraskaghosts.org
>

2999. Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 17:24:25 UTC
From: VE3FMC
Topic: 2985 Message: 2999

Hi Dave

That is the answer I was looking for, the value of resistor to add into the mic line.
I talked to a guy yesterday using that mic. He told me the audio was clear but did not have any lows. As you said, good DX audio but not good for rag chewing!

Thanks for replies guys.
73, Rick VE3FMC

--- In DrakeRadio@yahoogroups.com, "David & Chris Drake" <drakes@...> wrote:
>
> Bob,
> D-104's, without the built in amplifier, are good mics for Tr's and Tx's. Many people found that the higher frequency response was very good for DX work. That was well before today's processors and DSP filters. If your D-104 is wired straight through (open the bottom up and see), then it is wired stock, and will sound higher pitched. Some might say a bit "tinney". All depends on your voice. But really, its the lack of low end balance for normal voice characteristics. Definitely a communications mic....period.
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> Quite often, hams who want to use these mics for normal rag chew or nets add a resistor in series to the element. Actually, the TR4 will like the higher resulting load and you'll not see significant loss of audio. I settled on a 220k resistor in mine to sound best for my voice. A good way to find out is to hook up a substitution box to the mic line and switch in several values to see the difference. I used a guitar amp to listen to myself and determine the needed value. You'll need a high impedance amp to do this, or,... go through the rig and listen to the resulting transmitted signal.
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> Lastly, you should change back the 1/4" jack to the .208 it was designed for. That way you won't stick your 8 ohm headphones/speaker in the mic jack....thereby potentially causing unecessary grief.
>
> Shure 444's and the like work very well in the TR's with more low end response. I use either the D-104 or a Electrovoice 664d (set to high impedance). I prefer the Electovoice overall.
> Good luck,
> David
> Wd9cmd
>
> [Non-text portions of this message have been removed]
>

3000. Re: [DrakeRadio] Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 17:40:40 UTC
From: Jim Shorney
Topic: 2985 Message: 3000

On Sat, 09 Jan 2010 17:24:25 -0000, VE3FMC wrote:

>That is the answer I was looking for, the value of resistor to add into the mic line.

There is some hard data on this page about what happens to the D-104 response with different values of load:

http://members.cox.net/n4jk/d104.htm

The FET buffer circuit is not really needed, the D-104 has plenty of output to drive most radios with the added resistance. As I mentioned, I have used 470K in the past. Using this with the high-level input on my TR-7 (another 470K) puts it at close to a megohm load, and has garnered excellent audio reports. I don't know what the input load of the TR-4 is, but as David suggested, you can experiment with different values of resistance.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

3001. Re: [DrakeRadio] Re: BEST MIC FOR A TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 18:36:05 UTC
From: Rotten Robbie
Topic: 2985 Message: 3001

The TR-4 has an input Z of about 5M. The additional series resistor probably
reduces the high frequency response by acting as a low pass filter.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 09, 2010 9:40 AM
Subject: Re: [DrakeRadio] Re: BEST MIC FOR A TR-4

> On Sat, 09 Jan 2010 17:24:25 -0000, VE3FMC wrote:
>
>>That is the answer I was looking for, the value of resistor to add into
>>the mic line.
>
>
> There is some hard data on this page about what happens to the D-104
> response
> with different values of load:
>
> http://members.cox.net/n4jk/d104.htm
>
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> drive most radios with the added resistance. As I mentioned, I have used
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> 470K)
> puts it at close to a megohm load, and has garnered excellent audio
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> don't know what the input load of the TR-4 is, but as David suggested, you
> can
> experiment with different values of resistance.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.

> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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>
>
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>
> Yahoo! Groups Links
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>
>

3002. TR-6 (TR-4's ?) noise blanker 9-BN caps gone bad

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 22:55:14 UTC
From: de_n7ioh
Topic: 3002 Message: 3002

I was just going over my TR-6 getting ready to replace some old electrolytic caps. I noticed the two 1000uf 15 volt caps (C50, C51) in the 9-NB of mine had corrosion coming out of the caps and running down the leads to the PC board. I don't know if this is a common problem but I though I would mention it to the group so others could check them out to see if theirs are bad. I would be interested in hearing back as to what others find. Mine is sn. 570, if it makes a difference. I believe the 9-NB is also used in some TR-4's so it might be worth a look see.

Al n7ioh

3003. Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-09 23:34:13 UTC
From: Jim K5JG
Topic: 3002 Message: 3003

To those of you who have cleaned a chassis in a dishwasher....

I need to know if you used dishwasher detergent or just relied on the hot water to do the cleaning.

Thanks.

73, Jim K5JG

3004. Re: [DrakeRadio] Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 01:55:57 UTC
From: rrkrr
Topic: 3002 Message: 3004

Jim,
I have done this on some noncritical equipment, and used dishwasher detergent. It works well to clean otherwise hopelessly filthy gear, with some care.

Some critical points:
Almost any silkscreened paint or lettering (especially on glass) will be destroyed. Remove silkscreened front panels and glass or plastic dials and meters (don't put any meter movement through this).
As soon as the dishwasher cycle is done, put the equipment in an oven or other heated space at about 200 degrees F and leave it there for most of a day. This will dry transformers, bandswitches, coil forms, etc. before corrosion sets in.
Coils or other items impregnated in wax may come out with a rough surface that makes them look white, but this can be cleared up again with a heat gun or hair dryer.

Bob K4ERR

Jim K5JG wrote:
>
>
> To those of you who have cleaned a chassis in a dishwasher....
>
> I need to know if you used dishwasher detergent or just relied on the
> hot water to do the cleaning.
>
> Thanks.
>
> 73, Jim K5JG
>
>

--

~ ~ ~ ~ ~ ~ ~ ~ ~

"They are the arguments that kings have made for enslaving the people in all ages of the world. You will find that all the arguments in favor of king-craft were of this class; they always bestrode the necks of the people, not that they wanted to do it, but because the people were better off for being ridden."

Abraham Lincoln, July 10, 1858

3005. Re: [DrakeRadio] Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 06:48:47 UTC
From: Dave Springer
Topic: 3002 Message: 3005

Back in the day I had done it both ways, but that was with things like T-Powers, Galaxy's, etc. For an old Drake or Collins, Heathkit, etc. either way should be fine. I'm not sure that I'd do it on a more modern radio. If so I'd do it with plain old water.

--- On Sat, 1/9/10, Jim K5JG <k5jg@...> wrote:

From: Jim K5JG <k5jg@...>
Subject: [DrakeRadio] Dish Washing a Chassis
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 9, 2010, 2:34 PM

To those of you who have cleaned a chassis in a dishwasher.. ..

I need to know if you used dishwasher detergent or just relied on the
hot water to do the cleaning.

Thanks.

73, Jim K5JG

[Non-text portions of this message have been removed]

3006. Re: selling TR-3 on Ebay...what is it worth?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 16:09:21 UTC
From: captcurt2000
Topic: 2993 Message: 3006

Its coming to a gud home David...

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "CopaDave" <de.n7fan@...> wrote:
>
> I am cleaning out the shack storage and posted my old TR-3 on Ebay last weekend. Not really knowing what it was worth, I set for $75.
>
> This morning I had the blinding insight to post this message, which I should have did last weekend, and see if that is a fair price or if I should go higher or not.
>
> The radio has been in storage for over 20 yrs. The volume knob has a piece missing, but that is the only cosmetic damage (other than routine wear).
>
> I don't know if it powers on or not, but I do have the power supply for it as well.
>
> I'm not shilling for bids, but can someone take a look at it and tell me if I'm too high, or about right? The only bid is from a resaler, and I'd rather see it go to an actual Drake user/lover.
>
> I'm on my cell phone so I can't cut and paste a url, but it's item number 190362476951.
>
> David, N7FAN
>

3007. Re: selling TR-3 on Ebay...what is it worth?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 18:51:30 UTC
From: Eric Zerkle
Topic: 2993 Message: 3007

Theres one thats been on Ebay since last summer and the seller is asking $399.00 for it. He doesnt even know if it works and it is missing knobs and looks rough. :^(

[Non-text portions of this message have been removed]

3008. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 19:15:07 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3008

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3009. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 19:39:17 UTC
From: Carl McLelland
Topic: 206 Message: 3009

Don,
Thanks for the invite. I intro'd several weeks ago and asked quite a few questions before concluding what my T-4XC needed was an overhaul. In the meantime I picked up an Icom IC-718, I'm tuning it through my MN-2000, and broadcasting with an MFJ-1796 multi-band vertical. Thus far I've been pleased with the combination. My goals remain: restoration of the Drakes and enjoying 'vintage radio'.

I also recently updated my QRZ bio and added some photo's so take a look at your convenience: http://www.qrz.com/db/KF7GJO

73's........ Carl KF7GJO

----- Original Message -----
From: DrakeRadio@yahoogroups.com
To: DrakeRadio@yahoogroups.com
Sent: Sunday, January 10, 2010 11:15 AM
Subject: [DrakeRadio] File - Bi-Weekly Statement

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

[Non-text portions of this message have been removed]

3010. Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 19:50:46 UTC
From: skipp025
Topic: 3002 Message: 3010

Hi Jim,

> Jim K5JG <k5jg@...> wrote:
> To those of you who have cleaned a chassis in a dishwasher....
> I need to know if you used dishwasher detergent or just relied
> on the hot water to do the cleaning.

Both really, of course your choice depends on the item's value, available time, the metal type, how bad and what type of "stuff" you want to remove.

In situations where it may not be easy to remove some critical parts susceptible to water/soap damage... I have used a cat-box size plastic pan full of warm (almost hot) soapy water (made of/from Palmolive Liquid Dish Soap) and a series of soft and firm paint brushes to manually clean a chassis.

The process might involve just holding the chassis near or over the soapy water (not entirely immersed) while the repeatedly dipped (in the warm soapy water) paint brushes are used to break dirt and grim loose.

Being careful not to allow water into certain parts... clean warm water is used to flush away (displace) the warm soapy water before allowing the chassis to dry in a proper location.

Most people don't have a proper drying oven and sometimes direct sunlight on a hot summer day is too much... so you have to be smart about the drying location and realized temperatures. A proper drying process is another choice to be made based on your resources and experience. Yeah, lots of choice to be made...

Re: dish-washer use... the key issue is what type of detergent in regards to liquid or powder and how that soap might react with the chassis metal. Some powders like Cascade and similar might react with specific metals and leave trace amounts. While other liquid versions of the same base might react but are more easily displaced during the rinse process. And if there would be any parts on the chassis that would be damaged by a trip through the dish washer.

Many of us who repair and restore radios have "our own tricks" and would hopefully be willing to share our methods with others. With enough investigative home-work you could pick which methods might work best for your needs. In a "well lighted"

public forum (Internet Groups) like this one... some of the more questionable hints and kinks can be talked about/over so any potential issues can be addressed. There are a group of people who wouldn't take a chassis near a dish washer and that's also a viable choice.

With the exception of some variable capacitors and large vacuum tubes... rare is the dirty enough item to need a full on dishwasher event. The exception might be the heavily smoke and nicotine coated item more formerly received from old (most often WWII era) timer estate sales. Nothing like a brown colored Heathkit radio deal at the flea market to get you thinking about a trip to the dish washer.

Nicotine is nasty...

cheers,
s.

3011. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 20:13:20 UTC
From: Garey Barrell
Topic: 3002 Message: 3011

skipp025 wrote:
>> Jim K5JG<k5jg@...> wrote:
>> To those of you who have cleaned a chassis in a dishwasher....
>> I need to know if you used dishwasher detergent or just relied
>> on the hot water to do the cleaning.
>>
> With the exception of some variable capacitors and large
> vacuum tubes... rare is the dirty enough item to need a full
> on dishwasher event. The exception might be the heavily
> smoke and nicotine coated item more formerly received from
> old (most often WWII era) timer estate sales. Nothing like a
> brown colored Heathkit radio deal at the flea market to get
> you thinking about a trip to the dish washer.
>
> Nicotine is nasty...
>
The most effective nicotine removal product I have found is GoJo WHITE Hand Cleaner. Seems to take it right off, and so far at least, benign to the things we want to keep!! Rinse off with warm water, keeping water OUT of transformers, meters, etc.

By the way, Drake "IF" transformers are wound on paper cores, for the most part, most sealed, others not so well. Also, some have ferrite "pot cores" that can hold water/chemicals for a while.

If you insist on using a dishwasher for variable caps or items with other "sorta" sealed ceramic parts, be sure the "DRY" cycle is disabled. I've seen a couple of cases where the ceramic literally exploded, apparently because of water being trapped inside the ceramic and converting to steam in the dry cycle. Nothing left but small chunks and some "sand".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3012. RE: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 21:39:32 UTC
From: Bob Spooner
Topic: 3002 Message: 3012

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Sunday, January 10, 2010 3:13 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Dish Washing a Chassis

skipp025 wrote:
>> Jim K5JG<k5jg@...> wrote:
>> To those of you who have cleaned a chassis in a dishwasher....
>> I need to know if you used dishwasher detergent or just relied
>> on the hot water to do the cleaning.
>>
> snip.

The most effective nicotine removal product I have found is GoJo WHITE Hand Cleaner. Seems to take it right off, and so far at least, benign to the things we want to keep!! Rinse off with warm water, keeping water OUT of transformers, meters, etc.

Garey and all,

An exception to the above is that the GoJo hand cleaner will remove decals. I have a Collins 310B where the decal showing the location of tubes that was on the inside of the lid disintegrated when I used GoJo to clean the cabinet. Sigh!

73,

Bob AD3K

[Non-text portions of this message have been removed]

3013. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-10 23:25:36 UTC
From: Richard Knoppow
Topic: 3002 Message: 3013

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, January 10, 2010 12:13 PM
Subject: Re: [DrakeRadio] Re: Dish Washing a Chassis

>
> skipp025 wrote:
>>> Jim K5JG<k5jg@...> wrote:
>>> To those of you who have cleaned a chassis in a
>>> dishwasher....
>>> I need to know if you used dishwasher detergent or just
>>> relied
>>> on the hot water to do the cleaning.
>>>
>> With the exception of some variable capacitors and large
>> vacuum tubes... rare is the dirty enough item to need a
>> full
>> on dishwasher event. The exception might be the heavily
>> smoke and nicotine coated item more formerly received
>> from
>> old (most often WWII era) timer estate sales. Nothing
>> like a
>> brown colored Heathkit radio deal at the flea market to
>> get
>> you thinking about a trip to the dish washer.
>>
>> Nicotine is nasty...
>>
> The most effective nicotine removal product I have found
> is GoJo WHITE
> Hand Cleaner. Seems to take it right off, and so far at
> least, benign
> to the things we want to keep!! Rinse off with warm
> water, keeping
> water OUT of transformers, meters, etc.
>
> By the way, Drake "IF" transformers are wound on paper
> cores, for the
> most part, most sealed, others not so well. Also, some
> have ferrite
> "pot cores" that can hold water/chemicals for a while.
>
> If you insist on using a dishwasher for variable caps or
> items with
```

> other "sorta" sealed ceramic parts, be sure the "DRY"
> cycle is
> disabled. I've seen a couple of cases where the ceramic
> literally
> exploded, apparently because of water being trapped inside
> the ceramic
> and converting to steam in the dry cycle. Nothing left
> but small chunks
> and some "sand".
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
Its the IF transformers and similar stuff that worries me about cleaning. When I worked for Hewlett-Packard many years ago we washed incoming equipment using a paint sprayer loaded with dishwashing detergent but anything that could be water or heat damaged was removed first. That included meters, plastic parts (dial windows, etc, and hermetically sealed transformers. The transformers would seem to be immune from water but we found that they were often not perfectly sealed so some moisture could get in but not get out again. That would cause them to arc and fail when fired up again even if the transformer was baked for an extended period of time.
The procedure we used was to remove whatever needed to be removed, rinse off the unit with a hose and warm water, then wash with a paint sprayer with the detergen solution, then rinse again with warm water, then blow out as much water as possible using compressed air. After this the unit was baked in an electric oven at about 130F for several days.
The vulnerability of paper coil formers and of ferrite or dust cores to moisture would seem to me to forbid spray washing without removing them and I would be careful about the heat used for drying. Most electronic and mechanical components, except some plastics, will take about 130F but not much more. One just has to be patient and allow enough time for thorough drying.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3014. TR-7 Front Panel End Caps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 15:15:53 UTC
From: qrpcwop
Topic: 3014 Message: 3014

Hello

I'm in the "final touches" phase of restoring a basket case unit I obtained a couple years ago. The radio is intact with the exception of the end caps, which I'll fabricate.

Can someone please provide the dimensions? I know it's a tapered part, so I'll need top width, length, and bottom width. Hole placement would be helpful as well, but I can interpolate that from the rig.

73 - Al, K2ZN

3015. Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 15:32:50 UTC
From: Tyke
Topic: 3002 Message: 3015

I have found that industrial strength "Formula 409", which is still available, not the watered down kitchen/bathroom cleaner that is on the market now, works great for removing nicotine and other dirt and grime!!!

I normally follow this with a good bath or spraying of denatured alcohol - safe on all plastics as far as i know, or wood alcohol - not
recommended on polystyrene plastics - it melts it!!!

An automotive type suctonparts cleaner blow gun works real well, or even a commercial automoti ve paint gun. I prefer the blow gun!!!

If available , "VarSol" parts cleaner is good also, but try it on a sample piece of plastic if possible. Different strengths' of this product are out there!!!

Or if you can afford it, there is a product that is prodced down in Harvey, La., by a company caled "Napasco" that has a cleaning product called "SC-200" that works really gret on all electrincs chassis. we used it in the USAF to clean all our radio equipment. you cna get it in aerosol cans or in liquid bulk quantities starting in the 1 gal. size can.

As far as i know it is stil being made!!! I believe it is carbon tetrachloride based,as it will not burn when exposed to flame or heat.

(Carbon-tetra-fluoro-chloride or is it cloro-fluoride....or something like that - I'm not a chemist but I remember parts of the name)

anyhow, good luck with your cleanng project.BTW, i think "Mean Green" will work in place of "409" if they still make it!

Tyrone N5XES

3016. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 15:55:38 UTC
From: Richard Knoppow
Topic: 3002 Message: 3016

----- Original Message -----
From: "Tyke" <tyke1954@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 7:32 AM
Subject: [DrakeRadio] Re: Dish Washing a Chassis

>
>
> I have found that industrial strength "Formula 409",
> which is still available, not the watered down
> kitchen/bathroom cleaner that is on the market now, works
> great for removing nicotine and other dirt and grime!!!
>
> I normally follow this with a good bath or spraying of
> denatured alcohol - safe on all plastics as far as i know,
> or wood alcohol - not
> recommended on polystyrene plastics - it melts it!!!
>
> An automotive type suctonparts cleaner blow gun works
> real well, or even a commercial automoti ve paint gun. I
> prefer the blow gun!!!
>
> If available , "VarSol" parts cleaner is good also, but
> try it on a sample piece of plastic if possible. Different
> strengths' of this product are out there!!!
>
> Or if you can afford it, there is a product that is
> prodced down in Harvey, La., by a company caled "Napasco"
> that has a cleaning product called "SC-200" that works
> really gret on all electrincs chassis. we used it in the
> USAF to clean all our radio equipment. you cna get it in
> aerosol cans or in liquid bulk quantities starting in the
> 1 gal. size can.
>
> As far as i know it is stil being made!!! I believe it is
> carbon tetrachloride based,as it will not burn when
> exposed to flame or heat.
>
>
> (Carbon-tetra-fluoro-chloride or is it
> cloro-fluoride....or something like that - I'm not a
> chemist but I remember parts of the name)
>
> anyhow, good luck with your cleanng project.BTW, i think
> "Mean Green" will work in place of "409" if they still

> make it!
>
> Tyrone N5XES
>
>
Denatured alcohol is ethyl (drinkable alcohon) with
something else added. The denaturant can be methyl alcohol
or acetone or other solvent. Some of the denaturants can
damage plastics. Isopropyl alcohol is relatively safe but
should be tested. Pure, i.e., dry isopropanol can be
obtained at computer stores in bulk or spray cans. Its
important that it be dry otherwise the water dissolved in it
will be left behind when the alcohol evaporates. Rubbing
alcohol is usually 70% isopropanol and also 91% can be
obtained in drugstores. Neither of these is dry enough to be
suitable.
The solvent you are probably thinking of is
1,1,1,trichroethane, once widely sold in spray cans for all
sorts of cleaning purposes. Its an environmental hazard so
it considerably more difficult to find than previously. It
is NOT carbon tetrachloride although both are chlorinated
hydrocarbons. Carbon tet has been unavailable for decades
due to its very high toxicity. It was really a replacement
for highly inflamable solvents like naphtha.
As long as you are cleaning metal a wide variety of
solvents can be used. Where there is plastic, paint, or
paper such as coil formers, involved much more care must be
excercized. In fact, it may be safer to leave some dirt
rather than to clean so vigorously that components are
damaged.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3017. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 16:45:27 UTC
From: Carl McLelland
Topic: 3002 Message: 3017

What is the consensus of using "Brake Clean" on electronic components? It does an incredible job on mechanical parts on race cars and doesn't leave a detectable residue, but before I spray it on my radio I'd rather someone else crossed that bridge and determined if it was great stuff or melted the plastics.

For detail work I'll spray it on a cloth rag then wipe or spray a bit in a plastic spray paint cap then apply it with a Q-tip. It evaporates really fast and is a "known carcinogen in California" (but then, tap water is a carcinogen in California), so gloves and don't breathe it is recommended..

Curious about electronic applications.
Carl KF7GJO

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Monday, January 11, 2010 7:55 AM
Subject: Re: [DrakeRadio] Re: Dish Washing a Chassis

----- Original Message -----
From: "Tyke" <tyke1954@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 7:32 AM
Subject: [DrakeRadio] Re: Dish Washing a Chassis

>
>
> I have found that industrial strength "Formula 409",
> which is still available, not the watered down
> kitchen/bathroom cleaner that is on the market now, works
> great for removing nicotine and other dirt and grime!!!
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> I normally follow this with a good bath or spraying of
> denatured alcohol - safe on all plastics as far as i know,
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>
> An automotive type suctonparts cleaner blow gun works
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> try it on a sample piece of plastic if possible. Different
> strengths' of this product are out there!!!
>
> Or if you can afford it, there is a product that is

> prodced down in Harvey, La., by a company caled "Napasco"
> that has a cleaning product called "SC-200" that works
> really gret on all electrincs chassis. we used it in the
> USAF to clean all our radio equipment. you cna get it in
> aerosol cans or in liquid bulk quantities starting in the
> 1 gal. size can.
>
> As far as i know it is stil being made!!! I believe it is
> carbon tetrachloride based,as it will not burn when
> exposed to flame or heat.
>
>
> (Carbon-tetra-fluoro-chloride or is it
> cloro-fluoride....or something like that - I'm not a
> chemist but I remember parts of the name)
>
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> make it!
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> Tyrone N5XES
>
>
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something else added. The denaturant can be methyl alcohol
or acetone or other solvent. Some of the denaturants can
damage plastics. Isopropyl alcohol is relatively safe but
should be tested. Pure, i.e., dry isopropanol can be
obtained at computer stores in bulk or spray cans. Its
important that it be dry otherwise the water dissolved in it
will be left behind when the alcohol evaporates. Rubbing
alcohol is usually 70% isopropanol and also 91% can be
obtained in drugstores. Neither of these is dry enough to be
suitable.
The solvent you are probably thinking of is
1,1,1,trichroethane, once widely sold in spray cans for all
sorts of cleaning purposes. Its an environmental hazard so
it considerably more difficult to find than previously. It
is NOT carbon tetrachloride although both are chlorinated
hydrocarbons. Carbon tet has been unavailable for decades
due to its very high toxicity. It was really a replacement
for highly inflamable solvents like naphtha.
As long as you are cleaning metal a wide variety of
solvents can be used. Where there is plastic, paint, or
paper such as coil formers, involved much more care must be
excercized. In fact, it may be safer to leave some dirt
rather than to clean so vigorously that components are
damaged.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

3018. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 18:36:00 UTC
From: Butch Housman
Topic: 3002 Message: 3018

Since almost every imaginable cleaner has been mentioned by this time.....let me add to the confusion.

I bought an old Ten Tec Omni V a while back that was VERY heavily dosed w/ 'baccer juice. It was so nasty I hated to even touch it. I removed all the knobs & methodically cleaned it w/ windex followed by regular armoral, nothing exotic but it cleaned up beautifully.

On the other hand I know a fellow who buys ether (starting fluid) & uses it to clean EVERYTHING u could possibly imagine. Cuts grease & grime 100% & drys instantly.

Gud luck,
b

[Non-text portions of this message have been removed]

3019. Re: TR-7 Front Panel End Caps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 17:43:10 UTC
From: va3pen
Topic: 3014 Message: 3019

I think you could also buy them from the Internet. I bought them a while ago. Search for something like "Drake TR-7."

73.

--- In DrakeRadio@yahoogroups.com, "qrpcwop" <k2zn@...> wrote:
>
> Hello
>
> I'm in the "final touches" phase of restoring a basket case unit I obtained a couple years ago. The radio is intact with the exception of the end caps, which I'll fabricate.
>
> Can someone please provide the dimensions? I know it's a tapered part, so I'll need top width, length, and bottom width. Hole placement would be helpful as well, but I can interpolate that from the rig.
>
> 73 - Al, K2ZN
>

3020. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 19:22:44 UTC
From: Bruce
Topic: 3002 Message: 3020

Hello,

Cleaning with ether sounds interesting.

Does anyone have an opinion on this?

What would be the possible drawbacks?

73, Bruce WA8TNC
==========
Butch Housman wrote:
>
> Since almost every imaginable cleaner has been mentioned by this
> time.....let me add to the confusion.
>
> I bought an old Ten Tec Omni V a while back that was VERY heavily dosed
> w/ 'baccer juice. It was so nasty I hated to even touch it. I removed
> all the knobs & methodically cleaned it w/ windex followed by regular
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> On the other hand I know a fellow who buys ether (starting fluid) & uses
> it to clean EVERYTHING u could possibly imagine. Cuts grease & grime
> 100% & drys instantly.
>
> Gud luck,
> b

3021. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 19:39:36 UTC
From: Garey Barrell
Topic: 3002 Message: 3021

Ya better hold your breath!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Bruce wrote:
> Hello,
>
> Cleaning with ether sounds interesting.
>
> Does anyone have an opinion on this?
>
> What would be the possible drawbacks?
>
> 73, Bruce WA8TNC
> ====================
> Butch Housman wrote:
>
>> Since almost every imaginable cleaner has been mentioned by this
>> time.....let me add to the confusion.
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>> I bought an old Ten Tec Omni V a while back that was VERY heavily dosed
>> w/ 'baccer juice. It was so nasty I hated to even touch it. I removed
>> all the knobs& methodically cleaned it w/ windex followed by regular
>> armoral, nothing exotic but it cleaned up beautifully.
>>
>> On the other hand I know a fellow who buys ether (starting fluid)& uses
>> it to clean EVERYTHING u could possibly imagine. Cuts grease& grime
>> 100%& drys instantly.
>>
>> Gud luck,
>> b
>>
>

3022. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 19:45:32 UTC
From: Butch Housman
Topic: 3002 Message: 3022

> It is NOT carbon tetrachloride although both are chlorinated
>hydrocarbons. Carbon tet has been unavailable for decades
>due to its very high toxicity.

It's very tough on ur liver !
As an additional note..... I've used a lot of carbon tet in days gone by. Best thing to clean brakes & mechanical points in '54 Chevys ever invented. It couldn't be quit as poisonous as claimed 'cause I'm still alive.

It has been mostly off the shelf since the 60's I'd guess but was banned as a consumer product in 1970. I used to get lots of it out of old fire extinguishers....the cool brass kind. It's paradoxical that one of the very worst things u could ever do w/ it would be to spray it into a fire as it makes deadly phosgene gas at high temps !

All this said however.....if I PERSONALLY ever ran across an old brass fire extinguisher that was still loaded I'd snatch it up immediately & carefully transfer the carbon tet into small bottles I could seal up tightly for future use. It's GREAT stuff but definitely not for dummies. Ventilation-ventilation-ventilation !

b

[Non-text portions of this message have been removed]

3023. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 19:59:33 UTC
From: Butch Housman
Topic: 3002 Message: 3023

Hello,

Cleaning with ether sounds interesting.

Does anyone have an opinion on this?

What would be the possible drawbacks?

73, Bruce WA8TNC
==========

I have an OPINION......it's dangerous as Hell !

U can easily blow urself up or maybe just get severe burns all over. It's also one of those things that smells very strong at first but very quickly u can't smell it at all. When u reach that point ur on the boderline of serious trouble. I only mentioned it as a possibility. The man I spoke of may use 24 cans just to degrease a deisel engine. When I see him start that I leave BUT it works great.

I prefer windex, armoral & deoxit but ether is a possibility for severe cleaning in an outdoor setting away from any sources of ignition.

Gud luck,

b

[Non-text portions of this message have been removed]

3024. T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 20:12:30 UTC
From: Dave
Topic: 3024 Message: 3024

I've noticed a problem with my bias lately. If I set the bias to .1 in the XMTR TRANSCEIVE position it reads .040ma in the RCVR TRANSCEIVE AND SEPARATE position.
If I transmit (CW) in the XMTR TRANSCEIVE or RCVR TRANSCEIVE position
it stays constant.
If I transmit (CW) in the SEPARATE position, after a few transmissions the Bias raises to .140 (or higher) and I have to wait a while for it to drop.
I also notice when checking the Bias in the XMTR TRANSCEIVE position there is about 18 watts output when on Tune in the USB setting, and ZERO watts out when in the other two positions.
I have rebuilt the AC4 Power Supply last year with the Heathkit Shop upgrade kit and checked the "select to test" resistor for the meter and it is correct.
I can't figure out what is causing this change in meter reading in only one position or if it is a false reading of some kind.
Any Ideas ?
Thanks
WINK
WA8KOQ

3025. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 20:16:24 UTC
From: Bruce
Topic: 3002 Message: 3025

Hello,

OK, let me rephrase my question:

Can cleaning a radio with ether cause any damage to the radio?

Does it leave any residue?

73, Bruce WA8TNC

3026. Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 20:06:41 UTC
From: R
Topic: 3002 Message: 3026

When I worked at Harris Corp, the test equipment department would wash equipment with a spray gun with some kind of cleaner and then rinse with water. Then the equipment was put under heat lamps.

Ray

--- In DrakeRadio@yahoogroups.com, Butch Housman <olddeafcoach@...> wrote:
>
>
>
>
> Hello,
>
> Cleaning with ether sounds interesting.
>
> Does anyone have an opinion on this?
>
> What would be the possible drawbacks?
>
> 73, Bruce WA8TNC
> ====================
>
>
> I have an OPINION......it's dangerous as Hell !
>
> U can easily blow urself up or maybe just get severe burns all over. It's also one of those things that smells very strong at first but very quickly u can't smell it at all. When u reach that point ur on the boderline of serious trouble. I only mentioned it as a possibility. The man I spoke of may use 24 cans just to degrease a deisel engine. When I see him start that I leave BUT it works great.
>
> I prefer windex, armoral & deoxit but ether is a possibility for severe cleaning in an outdoor setting away from any sources of ignition.
>
> Gud luck,
>
> b
>
>
> [Non-text portions of this message have been removed]
>

3027. Re: [DrakeRadio] T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 20:24:18 UTC
From: Garey Barrell
Topic: 3024 Message: 3027

Wink -

First, the idle current for the T-4X(any) transmitters is 0.07A or 709 mA. The TR-4(any) [three PA tubes] is 0.10A.

I don't understand why it is reading differently depending upon the TRANSCEIVE switch position. Bias current "drifting" up is typical of soft Final tubes. Since you have recently worked on the supply, I'd check the Bias voltage at the supply when this is occurring just to be sure it's not drifting "down" (more positive) during this time.

I don't follow what you are saying in your fourth sentence, "I also notice ..."

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Dave wrote:
> I've noticed a problem with my bias lately. If I set the bias to .1 in the XMTR TRANSCEIVE position it reads .040ma in the RCVR TRANSCEIVE AND SEPARATE position.
> If I transmit (CW) in the XMTR TRANSCEIVE or RCVR TRANSCEIVE position
> it stays constant.
> If I transmit (CW) in the SEPARATE position, after a few transmissions the Bias raises to .140 (or higher) and I have to wait a while for it to drop.
> I also notice when checking the Bias in the XMTR TRANSCEIVE position there is about 18 watts output when on Tune in the USB setting, and ZERO watts out when in the other two positions.
> I have rebuilt the AC4 Power Supply last year with the Heathkit Shop upgrade kit and checked the "select to test" resistor for the meter and it is correct.
> I can't figure out what is causing this change in meter reading in only one position or if it is a false reading of some kind.
> Any Ideas ?
> Thanks
> WINK
> WA8KOQ
>
>

3028. Re: T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 21:49:17 UTC
From: Dave
Topic: 3024 Message: 3028

HI Garey
Actually I try to keep the bias at .07 or lower since I only run CW, butt I can't figure out which reading to accept as the real setting ? The Transceive reading or the Separate reading?
My other statement refers to XMTR GAIN CCW / USB position /TUNE
for setting Bias. -- I notice output when in the Transceive position but not the other two. I don't know if this may have something to do with problem or not.
Finals and driver tubes were replaced 4 years ago and still have good full output - 130/140 watts with no falling off of output.

Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> First, the idle current for the T-4X(any) transmitters is 0.07A or 709
> mA. The TR-4(any) [three PA tubes] is 0.10A.
>
> I don't understand why it is reading differently depending upon the
> TRANSCEIVE switch position. Bias current "drifting" up is typical of
> soft Final tubes. Since you have recently worked on the supply, I'd
> check the Bias voltage at the supply when this is occurring just to be
> sure it's not drifting "down" (more positive) during this time.
>
> I don't follow what you are saying in your fourth sentence, "I also
> notice ..."
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Dave wrote:
> > I've noticed a problem with my bias lately. If I set the bias to .1 in the XMTR TRANSCEIVE position it reads .040ma in the RCVR TRANSCEIVE AND SEPARATE position.
> > If I transmit (CW) in the XMTR TRANSCEIVE or RCVR TRANSCEIVE position
> > it stays constant.
> > If I transmit (CW) in the SEPARATE position, after a few transmissions the Bias raises to .140 (or higher) and I have to wait a while for it to drop.
> > I also notice when checking the Bias in the XMTR TRANSCEIVE position there is about 18 watts output when on Tune in the USB setting, and ZERO watts out when in the other two positions.

> > I have rebuilt the AC4 Power Supply last year with the Heathkit Shop upgrade kit and checked the "select to test" resistor for the meter and it is correct.
> > I can't figure out what is causing this change in meter reading in only one position or if it is a false reading of some kind.
> > Any Ideas ?
> > Thanks
> > WINK
> > WA8KOQ
> >
> >
>

3029. Re: T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 21:55:46 UTC
From: Dave
Topic: 3024 Message: 3029

Garey - By the way I am transceiving with an R4 if that has any bearing on the problem.

Wink
--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> First, the idle current for the T-4X(any) transmitters is 0.07A or 709
> mA. The TR-4(any) [three PA tubes] is 0.10A.
>
> I don't understand why it is reading differently depending upon the
> TRANSCEIVE switch position. Bias current "drifting" up is typical of
> soft Final tubes. Since you have recently worked on the supply, I'd
> check the Bias voltage at the supply when this is occurring just to be
> sure it's not drifting "down" (more positive) during this time.
>
> I don't follow what you are saying in your fourth sentence, "I also
> notice ..."
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Dave wrote:
> > I've noticed a problem with my bias lately. If I set the bias to .1 in the XMTR
TRANSCEIVE position it reads .040ma in the RCVR TRANSCEIVE AND SEPARATE position.
> > If I transmit (CW) in the XMTR TRANSCEIVE or RCVR TRANSCEIVE position
> > it stays constant.
> > If I transmit (CW) in the SEPARATE position, after a few transmissions the Bias raises
to .140 (or higher) and I have to wait a while for it to drop.
> > I also notice when checking the Bias in the XMTR TRANSCEIVE position there is about 18
watts output when on Tune in the USB setting, and ZERO watts out when in the other two
positions.
> > I have rebuilt the AC4 Power Supply last year with the Heathkit Shop upgrade kit and
checked the "select to test" resistor for the meter and it is correct.
> > I can't figure out what is causing this change in meter reading in only one position or
if it is a false reading of some kind.
> > Any Ideas ?
> > Thanks
> > WINK
> > WA8KOQ
> >

> >
>

3030. Re: [DrakeRadio] Re: TR-7 Front Panel End Caps

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 21:50:47 UTC
From: Terry Taylor
Topic: 3014 Message: 3030

I found this supplier on WB4HFN's web site. He still has the end caps
available:

I have them.
One set of 2 (L&R) is $13.00 shipped.

PayPal to k4qu@...

73, Mike K4QU

----- Original Message -----
From: "va3pen" <va3pen@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 10:43 AM
Subject: [DrakeRadio] Re: TR-7 Front Panel End Caps

>I think you could also buy them from the Internet. I bought them a while
>ago. Search for something like "Drake TR-7."
>
> 73.
>
> --- In DrakeRadio@yahoogroups.com, "qrpcwop" <k2zn@...> wrote:
>>
>> Hello
>>
>> I'm in the "final touches" phase of restoring a basket case unit I
>> obtained a couple years ago. The radio is intact with the exception of
>> the end caps, which I'll fabricate.
>>
>> Can someone please provide the dimensions? I know it's a tapered part,
>> so I'll need top width, length, and bottom width. Hole placement would
>> be helpful as well, but I can interpolate that from the rig.
>>
>> 73 - Al, K2ZN
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3031. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-11 21:59:52 UTC
From: Richard Knoppow
Topic: 3002 Message: 3031

----- Original Message -----
From: "Bruce" <bsugarberg@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 11:22 AM
Subject: Re: [DrakeRadio] Re: Dish Washing a Chassis

> Hello,
>
> Cleaning with ether sounds interesting.
>
> Does anyone have an opinion on this?
>
> What would be the possible drawbacks?
>
> 73, Bruce WA8TNC

I've used starter fluid a couple of times. One problem
is that its not pure ether. Real ether is subject to
decomposing into peroxides which are quite explosive.
I think there are safer solvents. Several are available
in hardware and paint stores. Naphtha works on a lot of
greases, it is quite inflamable. Relatively pure naphtha is
available as lighter fluid like Ronsonol. This is what I
maninly use for cleaning camera shutters. It leaves no
residue of pure.
Dry (99+%) isopropanol is available from computer and
electronic supply places. It is also inflamible but is a
relatively safe solvent and not particularly toxic although
one should not breath to much. It does not leave a residue.
Isopropanol is the current solvent recommended by Koak for
cleaning the _emulsion side_ of slides and negatives. It can
damage cellulose based materials so should not be used on
the support side or on certain cellulose based plastics.
Acetone is useful for some greases and does not leave a
residue but it will attack many plastics and paint.
Xylol is another paint store solvent. It will dissolve
certain greases that acetone won't but, again, is a paint
thinner and will attack many plastics and paints.
MEK (methyl-ethyl-keytone) is a wide spectrum solvent.
It will dissolve many plastics and paint but is very
effective for some greases. It will dissolve rubber
including latex gloves.
Tri-chlor was a very effective degreaser with a
relatively selective action on paint and plastic but is no
longer generally available.

Carbon tetrachloride is not generally available. It was the cleaner of choice for film and many other purposes when it was. Generally, Tri-Chlor replaced it due to lower toxicity. However, other solvents will work for both carbon tet and tri-chlor provided one can tolerate the fire hazard. In general there are two classes of solvents: polar and non-polar. They work on different substances. Polar solvents include water. Polar solvents will not mix with non-polar types. The choice of as solvent depends on the substance one wants it to dissolve. There is a pretty good although somewhat technical artical on solvents on Wikipedia, a Google search will find it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3032. Re: [DrakeRadio] Re: Dish Washing a Chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 01:28:46 UTC
From: Butch Housman
Topic: 3002 Message: 3032

I don't know where u can buy straight ether. It used to come in a reddish, soft, gel cap lookin' thing. Sort of a squeezable egg. When u were ready to use it u punched a pin hole in one end & squirted it in the carb or air intake. I haven't seen one of those in years. Now what u buy is "starting fluid". Straight ether wipes the oil from the rings & is hard on an engine (compared to the bang it makes inside the cylinder the lack of lube is a minor issue me thinks.....if it starts w/o blowing the head off ur in gud shape !), so anyway starting fluid supposedly has an upper cylinder lube added. One might guess this would leave some kind of residue.

I may have led u astray by even mentioning this. Ether as a cleaner is BIG MEDICINE ! I wouldn't use it on anything that wasn't in really bad shape, maybe some old military boat anchor that u rescued from a garage with 50 yrs of grime on it. In that case any residue left behind would be minor compared to what u started with. I don't know if it's safe for plastics, I'd be careful of that. If u sprayed it inside a radio u should be prepared to re-lube every variable capacitor bearing & anything else that moved or turned or slid. It strips a thick layer of grease & dirt off the side of a D 8 Cat engine like a super pressure washer !

Everyone I've ever talked to (who I thought knew something) has recommended "DeOxit" as a cleaner for electronic switches pots etc., here's a couple of links:

http://store.caig.com/s.nl/sc.2/category.188/.f

http://www.all-spec.com/products/Caig%20Laboratories/Cleaners_and_Aerosols%7CCleaning_Supplies%7CCLN-00/DCC-V510.html

They make several varieties but D5 is recommended for flushing action on vintage equipment.....high dollar but won't wreck stuff or blow u up.....something to be said for that.

Butch KA4MIC / nnn0zei
In the back woods of Kentucky

PS. Here's a couple of TOTALLY off topic vids showing alternate uses of ether.

The right way:

http://www.youtube.com/watch?v=dJ1k0WuNspk

The wrong way (it doesn't take much) :
http://www.youtube.com/watch?v=KI38RZ2f6Ls&feature=related

The most common way:
http://www.youtube.com/watch?v=y6efzYWXhvw&feature=related

PPS. Another form of excitement around here has been inflating a garbage bag w/ the gas from a properly adjusted but extinguished Oxy/Acetylene torch & then setting it off from a safe distance. A MAJOR problem involving static electricity was discovered w/ this activity

& so far as I know it is not currently practiced. Sorry, no pics.

[Non-text portions of this message have been removed]

3033. tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 02:14:28 UTC
From: Butch Housman
Topic: 3033 Message: 3033

I'm working on an old Hammarlund that has had 2 diodes substituted for the rectifier tube, a 5U4-GB. Is there any problem w/ that ? Voltages seem to be OK & I beleive the radio's problem is a bad audio amp tube.

Tnx,
Butch KA4MIC / nnn0zei

[Non-text portions of this message have been removed]

3034. Re: [DrakeRadio] tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 03:46:33 UTC
From: Richard Knoppow
Topic: 3033 Message: 3034

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 6:14 PM
Subject: [DrakeRadio] tube rectifier vs diodes

> I'm working on an old Hammarlund that has had 2 diodes
> substituted for the rectifier tube, a 5U4-GB. Is there any
> problem w/ that ? Voltages seem to be OK & I beleive the
> radio's problem is a bad audio amp tube.
>
> Tnx,
> Butch KA4MIC / nnn0zei
>

Vacuum tube rectifiers have a much higher voltage drop
than diodes. If the voltages are OK then its OK but be
careful. Another feature of vacuum tubes is that the DC does
not appear until the filiments have warmed up so it does not
apply HV to cold tubes.
What model is this?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3035. Re: [DrakeRadio] tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 03:59:07 UTC
From: Butch Housman
Topic: 3033 Message: 3035

It's an HQ110A VHF 160 thru 2 mtrs. It's in very nice shape but no audio, not even the calibrator. It was working (sorta) recently. I could probably change it back to original pretty easy. The tube socket is still there. R U familiar w/ this one ? What do u suggest ? New tubes r on the way.

I apologize for the non Drake content but it's still an old boat anchor, Hi Hi.

b

Vacuum tube rectifiers have a much higher voltage drop
than diodes. If the voltages are OK then its OK but be
careful. Another feature of vacuum tubes is that the DC does
not appear until the filiments have warmed up so it does not
apply HV to cold tubes.
What model is this?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

3036. Re: [DrakeRadio] T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 08:45:55 UTC
From: g4jss@tiscali.co.uk
Topic: 3024 Message: 3036

Hi

I have exactly the same problem with my T-4XC. Every now and again I have to reset the bias which has usually gone high. After a while I find it has gone low etc.

Strangely, this occurs with both my AC4's one of which was recently uprated with an AC4R. Also, the PA's are new - only put them in a month ago. I also get about 10 watts out in the tune position with no gain applied and this varies with the setting of the bias. Turn the bias down and the output goes down - turn it up and output goes up.

Other than that Tx works fine.

Vic
2009: A year in review - http://www.tiscali.co.uk/2009

[Non-text portions of this message have been removed]

3037. Re: T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 13:01:18 UTC
From: Dave
Topic: 3024 Message: 3037

Hi Vic
Thanks for the report-Glad I'm not losing my mind. I'm going to keep
checking on it and see if I can figure it out. I was going to try
another set of finals but after reading your post, I guess
that is not worth trying.
WINK
WA8KOQ
--- In DrakeRadio@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Hi
>
> I have exactly the same problem with my T-4XC. Every now and again I have to reset the bias which has usually gone high. After a while I find it has gone low etc.
>
> Strangely, this occurs with both my AC4's one of which was recently uprated with an AC4R. Also, the PA's are new - only put them in a month ago. I also get about 10 watts out in the tune position with no gain applied and this varies with the setting of the bias. Turn the bias down and the output goes down - turn it up and output goes up.
>
> Other than that Tx works fine.
>
> Vic
> 2009: A year in review - http://www.tiscali.co.uk/2009
>
> [Non-text portions of this message have been removed]
>

3038. Re: [DrakeRadio] Re: T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 14:39:35 UTC
From: g4jss@tiscali.co.uk
Topic: 3024 Message: 3038

Hi Wink

I wouldn't bother trying a new set of finals. I bought two sets (ouch!) and they both do the same thing with both AC4's. Unless both sets of finals are faulty and both AC4's (each or either) then the problem lies elsewhere.

The Tx works fine but I'm not clever enough to figure out how I get output (10 watts) on normal bias setting which varies up or down when I re-adjust the bias.

Hopefully someone may have had a similar experience and know the answer.

Vic - G4JSS

PS Have had the rig on for two hours now and the standing current reads normal but I am still showing 9 watts out on the power meter - with gain control at rock bottom.
2009: A year in review - http://www.tiscali.co.uk/2009

[Non-text portions of this message have been removed]

3039. Re: [DrakeRadio] Re: T-4XC Bias Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 16:02:43 UTC
From: Richard Hanna
Topic: 3024 Message: 3039

You may want to check the carrier balance in the balanced modulator.

Dick Hanna
K3VYY

--- On Tue, 1/12/10, g4jss@... <g4jss@tiscali.co.uk> wrote:

From: g4jss@... <g4jss@...>
Subject: Re: [DrakeRadio] Re: T-4XC Bias Problem
To: DrakeRadio@...m
Date: Tuesday, January 12, 2010, 9:39 AM

Hi Wink

I wouldn't bother trying a new set of finals. I bought two sets (ouch!) and they both do the same thing with both AC4's. Unless both sets of finals are faulty and both AC4's (each or either) then the problem lies elsewhere..

The Tx works fine but I'm not clever enough to figure out how I get output (10 watts) on normal bias setting which varies up or down when I re-adjust the bias.

Hopefully someone may have had a similar experience and know the answer.

Vic - G4JSS

PS Have had the rig on for two hours now and the standing current reads normal but I am still showing 9 watts out on the power meter - with gain control at rock bottom.
2009: A year in review - http://www.tiscali. co.uk/2009

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3040. T-4XC Bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 16:06:44 UTC
From: WINK
Topic: 3040 Message: 3040

Garey
The ERRATTA Sheet supplement on your service CD says to set
the bias to .1 on the meter. Now I'm confused.
Wink
WA8KOQ

3041. Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 16:45:28 UTC
From: querencias
Topic: 3033 Message: 3041

I have that model also - have you replaced the capacitors? The audio could be affected by a bad bypass capacitor on the cathode of the audio tube. Haven't looked at the receiver for several years but the caps seemed to have made a more dramatic difference than the tubes.

73 Grant

--- In DrakeRadio@yahoogroups.com, Butch Housman <olddeafcoach@...> wrote:
>
> It's an HQ110A VHF 160 thru 2 mtrs. It's in very nice shape but no audio, not even the calibrator. It was working (sorta) recently. I could probably change it back to original pretty easy. The tube socket is still there. R U familiar w/ this one ? What do u suggest ? New tubes r on the way.
>
> I apologize for the non Drake content but it's still an old boat anchor, Hi Hi.
>
> b
>
> Vacuum tube rectifiers have a much higher voltage drop
> than diodes. If the voltages are OK then its OK but be
> careful. Another feature of vacuum tubes is that the DC does
> not appear until the filiments have warmed up so it does not
> apply HV to cold tubes.
> What model is this?
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> [Non-text portions of this message have been removed]
>

3042. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 17:06:52 UTC
From: Butch Housman
Topic: 3033 Message: 3042

I haven't done anything to it yet except change to a grounding AC cord & removed the 2 diodes that had been installled to bypass the rect. tube. Looks to me like the original wiring is untouched so I'll just plug a new tube in there. I have a set of tubes coming + substitute caps to replace the filter caps & some other spare caps just in case I need them. If I'm reading the schematic right that's a .005 on the cathode & I don't believe I have that value. The audio tube gets REALLY hot !

Tnx for the heads up.
BTW, how do u like the receiver ? I never had a Hammarlund before but I've always admired their looks. Maybe I should but some blue gels behind the dials.....talk abt COOL !!!

b

PS. There is a Hammarlund group but no activity.

I have that model also - have you replaced the capacitors? The audio could be affected by a bad bypass capacitor on the cathode of the audio tube. Haven't looked at the receiver for several years but the caps seemed to have made a more dramatic difference than the tubes.

73 Grant

--- In DrakeRadio@yahoogroups.com, Butch Housman <olddeafcoach@...> wrote:
>

[Non-text portions of this message have been removed]

3043. tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 17:28:24 UTC
From: Al
Topic: 3033 Message: 3043

Hi Butch, I good group to join that is very active is, amphone.net here is a link to them. http://amfone.net/Amforum/index.php

These guys are great with the old gear and have helped me a lot.

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

3044. tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 17:36:28 UTC
From: Al
Topic: 3033 Message: 3044

Butch, I forgot to mention this. There are some good reasons for solid stating the rectifier tubes. One, less heat, and two if your power supply is marginal what you save by SS the rectifiers can help other components. But like was mentioned, you need to be careful because of the instant current flow and higher voltage.

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

3045. Re: [DrakeRadio] tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 17:59:47 UTC
From: Butch Housman
Topic: 3033 Message: 3045

Tnx Al for the link, I'll check it out.

I checked most of the voltages & in general they were a little high but not a lot.

Some yrs ago I rebuilt a pwr supply for an old military set, an ANN/GR5 (angry 5), which was set up w/ a vibrator & could run on 6,12,24 VDC or 120AC. That required a complete gutting & rewire job but this is a different trip..... I'd like to keep it original.

BTW, I've been in a number of yahoo groups, been thrown out of a few (no accounting for taste) but this group is top notch in my opinion.

Tnx all around,
b

[Non-text portions of this message have been removed]

3046. Re: [DrakeRadio] T-4XC Bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 19:56:30 UTC
From: Garey Barrell
Topic: 3040 Message: 3046

Wink -

That errata sheet is a little misleading. IF you read the entire
referenced paragraph in the manual (3.3.h), it says to set the Bias
until the meter reads 0.1, _and then back it down to 0.07._

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> Garey
> The ERRATTA Sheet supplement on your service CD says to set
> the bias to .1 on the meter. Now I'm confused.
> Wink
> WA8KOQ
>
>
>

3047. Re: T-4XC Bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 20:18:07 UTC
From: WINK
Topic: 3040 Message: 3047

OK I got it now. Only .1 on the TR series. I had misunderstood this
for a while now. Thanks for clearing that up for me, some had told me
it had been changed to .1 for all T4any also in the past.
Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> That errata sheet is a little misleading. IF you read the entire
> referenced paragraph in the manual (3.3.h), it says to set the Bias
> until the meter reads 0.1, _and then back it down to 0.07._
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> WINK wrote:
> > Garey
> > The ERRATTA Sheet supplement on your service CD says to set
> > the bias to .1 on the meter. Now I'm confused.
> > Wink
> > WA8KOQ
> >
> >
> >
>

3048. Drake Filters, Cases, and other items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 21:54:43 UTC
From: Ken Simpson, W8EK
Topic: 3048 Message: 3048

Drake items for sale:

Drake TV-3300-LP Low Pass Filter
This is a modern low pass filter to go between your transmitter and antenna, and has been optimized to have more attenuation in the 40 MHz region, where many TVs have their IF. It is good for 1000 Watts "average" according to the manual, and has over 80 db attenuation at 41 MHz. This one looks great, and includes the paper work. $30

Drake TV-5200-LP
This is the more modern version of the Drake TV-1000 Low Pass Filter. This is the filter that may also be used on the low end of six meters, as well as HF. It is good for 1000 Watts average below 30 MHz, and about 200 W up to 52 MHz. It works fine, and is in very nice shape. $35

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has cutouts in the back for antenna, power, etc. It includes the shoulder strap, and is in good shape. $12

Case for Drake TR-22
As above, but for the TR-22. No shoulder strap. $10

3 pin mic plug for TR-22
This is the small 3 pin mic plug that fits the Drake TR-22 mic jack. It is much smaller than most of the mic connectors. I thought these were completely gone, but one appeared from a silent key. This one has been used, but should still be usable some more. $10

Microphones:

Shure 104 C, Low Z hand Microphone
This is a very heavy duty Shure mic. It appears to be new, with stripped and tinned ends that have never been on a connector. It is in its original box, with the original instruction manual. $30

Generic Hand Microphone
This is a low impedance hand microphone, black in color. It is presently has an 8 pin round connector, wired for Kenwood. $25
As above, with no connector. $22

Regular hand microphone
Electret Condenser microphone
Generic Black mic, with gray PTT bar. Requires polarizing
voltage. $25

Lafayette EAM-15 dynamic hand microphone
2000 ohm impedance can be used any place a dynamic mic is needed.
Stripped and tinned leads.
It works fine, and looks good also. $25

CW Items:

Vibroplex Brass Racer Triangular Iambic Paddle

The Brass Racer Paddles are unique in that there are no springs
in the design. Tension on the paddle is infinitely adjustable by
the use of magnets. It is a convenient, space saving portable
keyer paddle unit crafted from solid brass with a lacquer coated
brushed finish mounted on a hardwood base. Designed for use with
an external keyer or a keyer built into the radio. It has a long
shielded cord with a 1/4 inch stereo plug. It works fine and
looks good. $100

"Code Crash" by Jerome Mintz
This is a VHS video tape that teaches a person the code.
It is a very basic tape, with the assumption that one does
not know any of the code. $12

Cable for straight key
About 3 feet long, with a mono 1/4 inch phone plug on it,
as is used with a straight key. $5
As above, but 1/8 inch (3.5 mm) plug. $5

Cable for paddles
About 3 feet long, and with a 1/4 inch stereo connector
on the end, like used by most rigs. $8
As above, but 1/8 inch (3.5 mm) plug $8

Coax connectors and adapters:
Prices are per connector. Several of each are available.
These are NOS (have not been used).

BNC male for coax cable
standard type - $2
crimp on type - $3

Chassis mount BNC female
square mount (uses 4 screws) - $3
screw in type - $4

BNC 90 degree - female to male - $3

BNC "T" - two female and one male - $4

Antenna adapter to fit the BNC connector on the HT
and provide an SO-239 connector that will permit
a PL-259 to be attached. (BNC male to UHF female) $5

UHF Male (PL-259) to BNC female (opposite of above) $5

UHF double female "Barrel connector" (two SO-239 together) $3

UHF "T" connector with two female (SO-239) and one male
(PL-259) connection - $5

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

3049. Re: [DrakeRadio] tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-12 23:52:33 UTC
From: Richard Knoppow
Topic: 3033 Message: 3049

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, January 12, 2010 9:59 AM
Subject: Re: [DrakeRadio] tube rectifier vs diodes

> Tnx Al for the link, I'll check it out.
>
> I checked most of the voltages & in general they were a
> little high but not a lot.
>
> Some yrs ago I rebuilt a pwr supply for an old military
> set, an ANN/GR5 (angry 5), which was set up w/ a vibrator
> & could run on 6,12,24 VDC or 120AC. That required a
> complete gutting & rewire job but this is a different
> trip..... I'd like to keep it original.
>
> BTW, I've been in a number of yahoo groups, been thrown
> out of a few (no accounting for taste) but this group is
> top notch in my opinion.
>
> Tnx all around,
> b
>

Usually when replacing a tube rectifier with silicon diodes a dropping resistor is necessary. The value of the resistor depends on the current drawn by the circuits and the drop in the original rectifier so it must be determined experimentally. Usually the value is pretty low. Some care must be excercized in locating the resistor because it will radiate some heat. The power lost in the diodes is so low that generally they do not run hot.
There are two types of vacuum tube recifiers found in receivers (and sometimes in low voltage sections of transmitters). One is the common filamentary cathode type, such as the familier 5U4 or 5Y3, the other has a separate cathode similar to the heater/cathode in receiving tubes. These have much lower voltage drop than the filamentary kind. The 5V4G is an example of this type. They give somewhat better regulation than the filamentary type where the demand varies.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

3050. OT: Hammarlund HQ-110-A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 00:12:16 UTC
From: Richard Knoppow
Topic: 3050 Message: 3050

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 11, 2010 7:59 PM
Subject: Re: [DrakeRadio] tube rectifier vs diodes

> It's an HQ110A VHF 160 thru 2 mtrs. It's in very nice
> shape but no audio, not even the calibrator. It was
> working (sorta) recently. I could probably change it back
> to original pretty easy. The tube socket is still there. R
> U familiar w/ this one ? What do u suggest ? New tubes r
> on the way.
>
> I apologize for the non Drake content but it's still an
> old boat anchor, Hi Hi.
>
I've changed the subject field. The problem is probably
not the change in rectfiers but I would check the wiring to
make sure that some part of the RX was not disconnected. The
first step should be to measure the socket voltages as
indicated in the handbook. There are a couple of handbooks
and schematics on BAMA (use the reflector site, the main one
is down) and there may be better ones elsewhere. Also check
the socket resistance values. Socket voltages are measured
with the RX operating so use some care. This may answer the
question right away.
The other trouble shooting technique is to trace the
signal with a good oscilloscope. In this case I would begin
at the detector to see if there is a, RF getting to it, and
if so, b, if there is audio out of it. That will help
isolate the problem. If there is no RF at the detector then
its necessary to trace back toward the input of the receiver
to see where you _can_ find a signal. One can start from
either end but checking the audio and detector stages first
may save some work. A good HF scope will have enough
sensitivity to see all the signals from at least the output
of the RF amp stage. The fact that there is no noise and
that nothing can be heard when the BFO is turned on suggests
the problem is at the detector or following audio stages.
While Hammarlund says that problems with this RX are
usually due to bad tubes they go on to describe noise and
hum problems. Tubes very rarely fail completely so I don't
think this is a tube problem. It is worth seeing if any of
the tubes are cold after operating for a few minutes. Some
filaments are hard to see but if there has been a failure of

either the filament or wiring to it the tube will feel cold.
Other than general trouble shooting hints I have no
specific knowledge of this receiver. I mainly know the older
Hammarlund stuff like the SP-600 and earlier Super-Pro
models having had to trouble shoot several of them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3051. Re: [DrakeRadio] OT: Hammarlund HQ-110-A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 00:36:45 UTC
From: Butch Housman
Topic: 3050 Message: 3051

I have checked most of the voltages & resistances. In general the voltages were a little high but not by a large amount. I'm thinking this could have been due to the diode substitution, they're gone now.. The resistances that I've checked seem well within tolerances.

I've never had a nice scope but I closed the deal on a Sencore SC 61 from ebay today. Now all I need to do is learn how to fly it......assuming it arives in working condition.

I have the Hammarlund manual & schematic & have tried to draw out a block diagram to help get it straight in my mind. It keeps coming back to one of the 2 audio stages but I can't go much further until the new tubes arrive.

Tnx for helping w/ this project even tho it's an "off brand".

b

[Non-text portions of this message have been removed]

3052. Re: [DrakeRadio] OT: Hammarlund HQ-110-A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 05:17:58 UTC
From: Richard Knoppow
Topic: 3050 Message: 3052

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, January 12, 2010 4:36 PM
Subject: Re: [DrakeRadio] OT: Hammarlund HQ-110-A

>I have checked most of the voltages & resistances. In
>general the voltages were a little high but not by a large
>amount. I'm thinking this could have been due to the diode
>substitution, they're gone now.. The resistances that I've
>checked seem well within tolerances.
>
> I've never had a nice scope but I closed the deal on a
> Sencore SC 61 from ebay today. Now all I need to do is
> learn how to fly it......assuming it arives in working
> condition.
>
> I have the Hammarlund manual & schematic & have tried to
> draw out a block diagram to help get it straight in my
> mind. It keeps coming back to one of the 2 audio stages
> but I can't go much further until the new tubes arrive.
>
> Tnx for helping w/ this project even tho it's an "off
> brand".
>
> b
Tubes don't often fail catastrophically, usually they
become weak or noisy or develop low resistance paths such as
heater to cathode leaks. A lot of tube testers don't check
for this very will and will show bad tubes as good. Heater
to cathode leaks can cause hum but also chanes in gain with
small variations in heater voltage. Tubes which have
developed a little gas can also cause a variety of problems
from noise to being conductive when they should not. The AVC
circuits in the Drake B and C receivers are evidently quite
sensitive to small amounts of leakage. Tubes can become
gassy without the envelope being damaged, the gas is
generated from internal components. There are gas scavengers
in the tube (getter) but they may not always work or be
overwhelmed. There are several sources of gas, mostly due to
emission from stuff that gets hot. In production the tube is
baked to drive off gasses but sometimes, especially after
forty or fifty years, some will come out.
My suspicions are directed toward open resistors or
shorted caps. Unfortunately, the HQ-110 uses small printed

circuit assemblies in the AF coupling circuits. These were once made unter the name Couplate and were cheaper than descrete parts. They make trouble shooting more difficult. The HQ-110 schematic shows the schematic and values of the couplers used so that, if worst comes to worst, you can duplicate them and replace them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3053. Re: [DrakeRadio] OT: Hammarlund HQ-110-A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 05:19:56 UTC
From: Richard Knoppow
Topic: 3050 Message: 3053

BTW, you can write me off list if you like. My addess
for the list is a good one and does not have a spam blocker
on it. If you write make sure to remove the "Drake List"
from the header, otherwise the filer in my e-mail client
will direct the mail to the Drake list.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3054. Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 18:13:49 UTC
From: querencias
Topic: 3033 Message: 3054

The receiver is "not bad" considering the time in which it was designed and built. The biggest thing I remember about it is that it drifts - I still have it along with about 20 Hallicrafters and National receivers in my storage shed, waiting their turn on the bench and a new life.

I have found with the Drake 2B and the HQ-110 that putting a new cathode bypass cap on the audio output tube made a very dramatic difference - Can't remember if the audio tube got abnormally hot on the 110.

I think I like the HQ-140(A [model?]) the best of the Hammarlunds - it seemed to be a step above the Hallicrafters.

73 de Grant

--- In DrakeRadio@yahoogroups.com, Butch Housman <olddeafcoach@...> wrote:
>
> I haven't done anything to it yet except change to a grounding AC cord & removed the 2 diodes that had been installled to bypass the

3055. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 20:45:10 UTC
From: Butch Housman
Topic: 3033 Message: 3055

I received the tubes today & by replacing both tubes in the audio stages I now have audio but reception is poor & sideband is difficult / impossible to tune. I have some caps for it but have not found a 40 mf or 60mf @ 450v or a 25mf @50v to change out the can. Radio shack doesn't stock 450v stuff.

R original equip. type can electrolitics still available ? If not what should I go for ????

tnx,

b

The receiver is "not bad" considering the time in which it was designed and built. The biggest thing I remember about it is that it drifts - I still have it along with about 20 Hallicrafters and National receivers in my storage shed, waiting their turn on the bench and a new life.

I have found with the Drake 2B and the HQ-110 that putting a new cathode bypass cap on the audio output tube made a very dramatic difference - Can't remember if the audio tube got abnormally hot on the 110.

I think I like the HQ-140(A [model?]) the best of the Hammarlunds - it seemed to be a step above the Hallicrafters.

73 de Grant

[Non-text portions of this message have been removed]

3056. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 21:41:21 UTC
From: Richard Knoppow
Topic: 3033 Message: 3056

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 13, 2010 12:45 PM
Subject: Re: [DrakeRadio] Re: tube rectifier vs diodes

>I received the tubes today & by replacing both tubes in the
>audio stages I now have audio but reception is poor &
>sideband is difficult / impossible to tune. I have some
>caps for it but have not found a 40 mf or 60mf @ 450v or a
>25mf @50v to change out the can. Radio shack doesn't stock
>450v stuff.
>
> R original equip. type can electrolitics still available ?
> If not what should I go for ????
>
> tnx,
>
> b
What exactly is the problem with SSB, drift or something
else?
Caps are available from the internet. High voltage caps
are still made but are not carried by many supply stores
because they don't sell enough. Tom, at Haystack Hamfest may
have what you are looking for although he says he is having
supplier troubles at the moment. He sells multi-section can
caps for Drakes and some Hallicrafters receivers. I just
bought a can for my R-4B which is identical to the original.
www.hayseedhamfest.com

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3057. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 22:34:22 UTC
From: Butch Housman
Topic: 3033 Message: 3057

>What exactly is the problem with SSB, drift or something
>else?

I can't seem to get it tuned in. No matter which sideband I try for or how slow I tune across it the sig is always muffled or garbeled.

.... Tom, at Haystack Hamfest may
have what you are looking for although he says he is having
supplier troubles at the moment. He sells multi-section can
caps for Drakes and some Hallicrafters receivers......

Sounds like if u want an old junker to fix up ur better off w/ a Drake (I mean that in the very BEST way Hi Hi).

I ran outta steam early today, I'll try putting some more tubes in it & recaping it w/ as possible.

Tnx very much,
b

[Non-text portions of this message have been removed]

3058. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-13 23:39:40 UTC
From: Gary Woods
Topic: 3033 Message: 3058

On Wed, 13 Jan 2010 17:34:22 -0500, you wrote:

> I can't seem to get it tuned in. No matter which sideband I try for or how slow I tune across it the sig is always muffled or garbeled.

What does the CW note sound like, tuning through a carrier?
(You remember carriers; we used to use them).

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/6 in upstate New York, 1420' elevation. NY WO G

3059. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-14 00:17:42 UTC
From: Richard Knoppow
Topic: 3033 Message: 3059

----- Original Message -----
From: "Gary Woods" <garygarlic@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 13, 2010 3:39 PM
Subject: Re: [DrakeRadio] Re: tube rectifier vs diodes

> On Wed, 13 Jan 2010 17:34:22 -0500, you wrote:
>
>> I can't seem to get it tuned in. No matter which
>> sideband I try for or how slow I tune across it the sig
>> is always muffled or garbeled.
>
> What does the CW note sound like, tuning through a
> carrier?
> (You remember carriers; we used to use them).
>
> Gary Woods AKA K2AHC- PGP key on request, or at
> home.earthlink.net/~garygarlic
> Zone 5/6 in upstate New York, 1420' elevation. NY WO G

This is my suggestion too. A garbled sounding SSB
signal can come from the BFO either warbling or hummy (is
that a word?). If the CW signal is clean report back and we
will think up some other stuff to check.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3060. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-14 02:02:57 UTC
From: Butch Housman
Topic: 3033 Message: 3060

Latest report:

I worked up enough energy to go back at it for awhile this evening. Retubed the whole thing & now have audio & plenty of sensitivity but no BFO or calibration sig at all. It receives AM only. SSB is just what U'd expect from an AM receiver.

When the BFO is switched on the receive goes dead & is replaced by a Hummmmmmmmmmmmmmm. As near as I can figure the ske-matic if the 60MF section of the filter cap were shorted u might expect just that.....

The guy who sold me the tubes was supposed to include appropriate caps to replace all that but they didn't show up. Oops !

I cud not find a link to "Haystack Hamfest" among the 10 gazillion google results (didn't check every one). Did find some other folks who sold can caps, mostly for extortionist prices so I guess I'll just order some modern electrolytics from Mouser or somebody like that.

What chew think ? I'll admit there have been other occasions when I thought I had found THE answer & it turned out that I had just stubbed my toe instead. I try not to be one of those folks who turns down gud advise.....even tho I DID sell my TR4. Oh well, as we move down stream stuff comes & goes.

Tnx,
b

[Non-text portions of this message have been removed]

3061. Re: [DrakeRadio] Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-14 02:18:28 UTC
From: Rotten Robbie
Topic: 3033 Message: 3061

Try this:
http://www.hayseedhamfest.com/

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 13, 2010 6:02 PM
Subject: Re: [DrakeRadio] Re: tube rectifier vs diodes

> Latest report:
>
> I worked up enough energy to go back at it for awhile this evening.
> Retubed the whole thing & now have audio & plenty of sensitivity but no
> BFO or calibration sig at all. It receives AM only. SSB is just what U'd
> expect from an AM receiver.
>
> When the BFO is switched on the receive goes dead & is replaced by a
> Hummmmmmmmmmmmmmm. As near as I can figure the ske-matic if the 60MF
> section of the filter cap were shorted u might expect just
> that.............................
>
> The guy who sold me the tubes was supposed to include appropriate caps to
> replace all that but they didn't show up. Oops !
>
> I cud not find a link to "Haystack Hamfest" among the 10 gazillion google
> results (didn't check every one). Did find some other folks who sold can
> caps, mostly for extortionist prices so I guess I'll just order some
> modern electrolytics from Mouser or somebody like that.
>
> What chew think ? I'll admit there have been other occasions when I
> thought I had found THE answer & it turned out that I had just stubbed my
> toe instead. I try not to be one of those folks who turns down gud
> advise......even tho I DID sell my TR4. Oh well, as we move down stream
> stuff comes & goes.
>
> Tnx,
> b
>
>
>
> [Non-text portions of this message have been removed]

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>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3062. Re: tube rectifier vs diodes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-14 15:26:23 UTC
From: David & Chris Drake
Topic: 3033 Message: 3062

Hello to all,
I routinely work on antique radios. There are many many parts sources for the Halli's and Hammarlund's, as well as most any other rigs of the late 50's and 60's. Some parts, however, require a donor radio, which I hate to do, but sometimes necessary.

Here's a few to bookmarks/links:,
http://angela.com/capacitors.aspx

Like the above, ...there are many sites that cater to vintage tube guitar amps, so don't hesitate to google up "tube guitar amps". These old tube guitar amps are one of the primary reasons we still have tubes available today. Also google "tube audio" for another list of links to tube parts. Power supplies in tube guitar amps are pretty much the same as many of the old radios. Some with SS rectification, some with 5u4's and 5y3's as well as others. There are even some diode kits to convert a socket to SS, however approach this with care, particularly when thinking of converting an old Hickok tube tester. Go to Alltubetesters.com for more info on this topic.

More links:

http://www.magicparts.com/main.htm
http://store.triodestore.com/
http://www.alltubetesters.com/index.htm
http://www.radiolaguy.com/misc.htm#250ohm
http://www.oselectronics.com/
http://www.wjoe.com/capacitors.htm#top%20of%20page
http://www.firebottle.com/aes/tubesandmore.cgi?page=gtr_amp_parts
http://www.vacuumtube.com/capacito.htm
http://www.hoffmanamps.com/index.html

Hoffman amps, above, has/carries lots of parts applicable to old radios.

http://www.mojotone.com/ , for tubes, transformers and other parts.
And:
http://www.justradios.com/capacitors.html

I've used Just Radios before. Good folks and good results, plus good prices. This site is mostly for capacitors for old tube desk radios. They can also supply schematics as well.

Have fun with the links.
David Drake
Wd9cmd

[Non-text portions of this message have been removed]

3063. Tube source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-15 01:58:45 UTC
From: Butch Housman
Topic: 3063 Message: 3063

I want to pass along a source I've been using for tubes.

Joe Schanble
joenmary75@...

He sells on ebay but I deal w/ him direct. He's sold me tubes for a HW 101 & the Hammarlund that u've been hearing abt for abt a third of what others on ebay offer. Many tubes r $1. A complete set of tubes has typically been less than $20 w/ shipping, some used, some NOS. I also bought a pound of resistors for $5 ... it's a nice box full + caps & other stuff.

He's a nice guy to deal w/ & prompt. I have no business interest here other than passing on the good word abt someone.

Butch- KA4MIC / nnn0zei

[Non-text portions of this message have been removed]

3064. Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 00:31:06 UTC
From: Butch Housman
Topic: 3064 Message: 3064

For any of u Drake people who might be interested.....

Update- The project moves slowly forward. U may not believe this but there's more than 1 thing wrong w/ my Hammarlund HQ 101 VHF.

2 tubes got the audio back
3 caps got the BFO & calibrator working

It now receives both AM & SSB, has a pretty bad hum, is not very sensitive & if u turn the AVC on it turns the reception off.

The guy said it worked, more than once. I've heard that old people stay sharper if they have mental challenges. I'm lookin' for a fancy "Wave Form Analyzer to come rollin' in here Tuesday. I'll set that baby up & start seein pictures of ever little hot part. It'll be figured out in no time !

The alternate could be stickin that fancy probe down in there & gettin 350V sparks all over. No problem......NO FUSE !

Regards,
Butch karmic

[Non-text portions of this message have been removed]

3065. Re: [DrakeRadio] Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 02:20:43 UTC
From: Richard Knoppow
Topic: 3064 Message: 3065

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, January 15, 2010 4:31 PM
Subject: [DrakeRadio] Still OT Hammarlund

> For any of u Drake people who might be
> interested.............
>
> Update- The project moves slowly forward. U may not
> believe this but there's more than 1 thing wrong w/ my
> Hammarlund HQ 101 VHF.
>
> 2 tubes got the audio back
> 3 caps got the BFO & calibrator working
>
> It now receives both AM & SSB, has a pretty bad hum, is
> not very sensitive & if u turn the AVC on it turns the
> reception off.
>
> The guy said it worked, more than once. I've heard that
> old people stay sharper if they have mental challenges.
> I'm lookin' for a fancy "Wave Form Analyzer to come
> rollin' in here Tuesday. I'll set that baby up & start
> seein pictures of ever little hot part. It'll be figured
> out in no time !
>
> The alternate could be stickin that fancy probe down in
> there & gettin 350V sparks all over. No problem......NO
> FUSE !
>
> Regards,
> Butch karmic

What you need more than anything is a decent
oscilloscope. If there is hum its most likely bad filter
caps. It _could_ be a tube with bad heater to cathode
leakage but filter caps are much more likely. I don't
remember if this RX has a separate negative bias supply for
the RF gain and AVC systems, Hammarlund likes that system
and may have used it here. If that supply is malfunctioning
it could explain both the hum and muting when the AVC is
used. Also, of course, see if the RX has any sort of mute
system for transmitting, if so it may be set incorrectly.
The last time someone told me something worked it

turned out that it did! This was a Zenith solid state portable RX I bought. Didn't turn on when I got it home but that turned out to be dirty battery terminals. OTOH, I bought a General Radio bridge some time ago that I was assured was in excellent condition, it was far from that, a mess although I got it working OK. You just never know, but all too often what people mean when they say something works is that the dial lights come on.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3066. Balanced Modulator Problem in T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 02:42:21 UTC
From: Richard Knoppow
Topic: 3066 Message: 3066

I've written about this before. Some time ago I bought
a T-4XB which was supposedly in good condition. I had no
power supply so had to wait until I aquired an AC-4 and
repaired it in order to test the transmitter. What I found
was that everything seemd to work OK but I could not get a
good carrier null. I of course tried all the obvious stuff,
diodes (the right kind) and checking for resistors that had
changed values a lot. I could find nothing. I also changed
the variable capacitor (barrel type) because I damaged it.
This has been one of the most frustrating problems I have
ever tackled. I tried just about everything I could think of
or that was suggested. For those to want to suggest it comes
from a leaky tube or some bias I will tell you I can get the
same problem using an external signal generator with
everything stripped off the assembly and using a scope to
look at the output.
I managed today to get a null. I finally wised up and
used the differential input to the scope to check the levels
on the two build out resistors, R-6 and R-7, I found a
considerable difference with R-6 being the higher. What I
tried was to add a small value capacitor, about 10pf to
ground from the diode end to ground. That puts the null pot
and null capacitor right in the center of their range. I get
good SSB with no residual carrier. However, and this is a
big however, this cap should not be necessary and I don't
like makeshifted repairs like this. I would really like to
know what is causing the problem. The frustrating part is
that I have tried disconnecting or replacing nearly all
parts. This includes detaching the leads to the primary of
the transformer.
One question I have is what sort of output level should
I expect from the balanced modulator secondary? I can tune
properly and get plenty of drive for CW but am not sure I am
getting full power for SSB. I am testing on 80 meters. The
finals in this rig are not in good shape (I have
replacements) but the fact that CW output is good suggests
that, assuming the output _is_ low, that its not the finals.
I also get decent AM. I have yet to measure the output
voltage using the scope, which I should do but am too stale
at the moment.
Can anyone tell me what is going on here? Gary, have you
ever seen a similar problem?

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

3067. Re: [DrakeRadio] Balanced Modulator Problem in T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 03:09:14 UTC
From: Richard Knoppow
Topic: 3066 Message: 3067

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, January 15, 2010 6:42 PM
Subject: [DrakeRadio] Balanced Modulator Problem in T-4XB

> I've written about this before. Some time ago I bought
> a T-4XB which was supposedly in good condition.

More: I just couldn't stand waiting so I tested the
output level. I used both the scope and a dummy load and
watt meter. I used an external tone going into the mic jack
for SSB (actually a mic close to a speaker). The scope is a
Tektronix 453 with a 10X probe conneced across the coax
using a General Radio T connector and 874 adaptor on the T.
The coax consists of two low-loss patch cords with UHF
connectors on one end and General Radio 874 connectors on
the other. The total length of the cable is about 8 feet.
Results: (remember bad finals) about 80w at 3600 khz on
CW or SSB peak (steady tone), same envelope level on the
scope. I can see the ALC working when I jack the input level
up beyond a certain point. This is the same level I got
before sticking the extra cap into the ring modulator. I
have to work tonight so I will put off changing the finals
to see if that makes a difference in output level. I do know
that the level on the higher bands is very limited, may be
no more than 20 watts on 10 meters. I _know_ the finals are
bad. I have a couple of new GE tubes to try.
If the extra cap does no harm, and if no one can suggest
the _real_ solution to this, I will just leave it alone and
put it on the air, at least as soon as I can rig an
antenna:-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3068. R4A PS transformer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 04:33:03 UTC
From: brooksie1
Topic: 3068 Message: 3068

Hi all,

I'm searching for a replacement transformer for the one in the R4A receiver. I looked at the schematic I have, and I can't find specs for the secondary windings. I'm assuming mine is bad; something "popped" while I was out of the room while it was on, and when I got back in the shack the tranformer was blistering hot, and there was a slight haze in the room (the 3/4 amp fused had been replaced with a 10 amp fuse!).

Parts sources would be greatly appreciated for what will likely be a rebuild of the power supply.

73 and thanks,

jim

3069. Re: [DrakeRadio] R4A PS transformer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 05:26:08 UTC
From: Rotten Robbie
Topic: 3068 Message: 3069

I would disconnect the secondaries first and test them. The probability is
it is not the transformer. It is probably a capacitor.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "brooksie1" <brooksie1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, January 15, 2010 8:33 PM
Subject: [DrakeRadio] R4A PS transformer

> Hi all,
>
> I'm searching for a replacement transformer for the one in the R4A
> receiver. I looked at the schematic I have, and I can't find specs for the
> secondary windings. I'm assuming mine is bad; something "popped" while I
> was out of the room while it was on, and when I got back in the shack the
> tranformer was blistering hot, and there was a slight haze in the room
> (the 3/4 amp fused had been replaced with a 10 amp fuse!).
>
> Parts sources would be greatly appreciated for what will likely be a
> rebuild of the power supply.
>
> 73 and thanks,
>
> jim
>
>
>
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>
> Yahoo! Groups Links
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3070. Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 20:54:18 UTC
From: Joe
Topic: 3070 Message: 3070

We have an older gentleman here in Reno that has a B series Drake twin. He is only a Tech so cannot use anything but the lower 10 meter portion of the radio.

However, he is quite a 'listener'. He plugged the R4-B in and connected a wire to the antenna plug, in the belief he could listen in on the different bands...but.....

Only 1 tube gets warm..all the others stay cold. Evidently the filaments are not energized.

Does the TX4-B transmitter and Power supply have be connected for the receiver to work?

Or does he possibly have a set of dead tubes? (Radio hasn't been used for 15 years and has been shipped from Germany since the last time it was turned on)

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

3071. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 21:05:36 UTC
From: Rotten Robbie
Topic: 3070 Message: 3071

The R4B Rx works all by itself.. If only one tube lights then (with power off) pull each tube one at a time and then plug them back in. Look at the tubes in a dark room to be sure whether or not they are glowing.

There is a switch on the RIGHT SIDE that says CRYSTAL/VFO. Make sure that switch is in the VFO position.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B series Drake twin.
> He
> is only a Tech so cannot use anything but the lower 10 meter portion of
> the
> radio.
>
> However, he is quite a 'listener'. He plugged the R4-B in and connected a
> wire to the antenna plug, in the belief he could listen in on the
> different
> bands...but.....
>
> Only 1 tube gets warm..all the others stay cold. Evidently the filaments
> are not energized.
>
> Does the TX4-B transmitter and Power supply have be connected for the
> receiver to work?
>
> Or does he possibly have a set of dead tubes? (Radio hasn't been used for
> 15 years and has been shipped from Germany since the last time it was
> turned
> on)
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>

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>
> Yahoo! Groups Links
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3072. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 21:30:39 UTC
From: Carl McLelland
Topic: 3070 Message: 3072

Joe,
I used my R-4C for "audio voyeurism" independant of the transmitter/power supply for quite some time. The only thing wiring up the transmitter did was provide a jack for a PL259 from a 'real' antenna. Prior to that it was just an RCA plug into the receiver and alligator clips to a bare wire..

Probably needs tubes or internal work..
Carl KF7GJO

----- Original Message -----
From: Joe
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

We have an older gentleman here in Reno that has a B series Drake twin. He is only a Tech so cannot use anything but the lower 10 meter portion of the radio.

However, he is quite a 'listener'. He plugged the R4-B in and connected a wire to the antenna plug, in the belief he could listen in on the different bands...but.....

Only 1 tube gets warm..all the others stay cold. Evidently the filaments are not energized.

Does the TX4-B transmitter and Power supply have be connected for the receiver to work?

Or does he possibly have a set of dead tubes? (Radio hasn't been used for 15 years and has been shipped from Germany since the last time it was turned on)

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

3073. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 21:36:48 UTC
From: Rotten Robbie
Topic: 3070 Message: 3073

Do you have a manual for the R-4B?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B series Drake twin.
> He
> is only a Tech so cannot use anything but the lower 10 meter portion of
> the
> radio.
>
> However, he is quite a 'listener'. He plugged the R4-B in and connected a
> wire to the antenna plug, in the belief he could listen in on the
> different
> bands...but.....
>
> Only 1 tube gets warm..all the others stay cold. Evidently the filaments
> are not energized.
>
> Does the TX4-B transmitter and Power supply have be connected for the
> receiver to work?
>
> Or does he possibly have a set of dead tubes? (Radio hasn't been used for
> 15 years and has been shipped from Germany since the last time it was
> turned
> on)
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
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> Yahoo! Groups Links

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3074. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 22:13:03 UTC
From: Joe
Topic: 3070 Message: 3074

Yup..The original, in fact. BTW....This is the cleanest set of B twins I have seen in a long, long time. Absolutely no fungus/staining crud on the copper in both the T or the R....the varnish has aged so the patina is a deep golden color rather than bright copper. I am probably going to end up with them..I hope so....be nice to get a legacy radio I don't have to restore cosmetically! LOL.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Rotten Robbie" <rottenrobbie0@...>
Subject: Re: [DrakeRadio] Question for 'B' Operators

> Do you have a manual for the R-4B?

3075. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 22:16:54 UTC
From: Richard Knoppow
Topic: 3070 Message: 3075

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B
> series Drake twin. He
> is only a Tech so cannot use anything but the lower 10
> meter portion of the
> radio.
>
> However, he is quite a 'listener'. He plugged the R4-B in
> and connected a
> wire to the antenna plug, in the belief he could listen in
> on the different
> bands...but.....
>
> Only 1 tube gets warm..all the others stay cold.
> Evidently the filaments
> are not energized.
>
> Does the TX4-B transmitter and Power supply have be
> connected for the
> receiver to work?
>
> Or does he possibly have a set of dead tubes? (Radio
> hasn't been used for
> 15 years and has been shipped from Germany since the last
> time it was turned
> on)
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
You do not need the transmitter at all for the RX to
work. If the dial and meter lamp light the tubes should
light. If they don't its possible that some of them have
corroded pins or are burned out. Tubes seldom burn out.
However, since the radio was in Germany the last time it was
used it may be wired for 240V. There are two primary
windings on the power transformer, for 120V they are wired

in parallel, for 240 in series. My bet is that they are in series. The lamps and tubes may be lighting but dimly. I don't think the RX will work when on the wrong voltage.
For stand-alone operation you should also make a shorting plug for the "external mute" jack. This is just an RCA plug with the center pin shorted to the outer contact. When the is no pin and no connection to the TX the receiver will be muted in the "external mute", NB (noise blanker), and Cal positions of the function switch.
If the RX _is_ jumpered for the correct line voltage (my bet is that its not) take the tubes out and scrub the pins with a toothbrush and something like Barkeeper's Friend or Zud, make sure they are well rinsed. Then squirt just a little contact cleaner on them and put them back in the sockets. Rock the tubes in the sockets to clean the internal contacts. Tube filaments can be checked with a simple ohm meter. They will show either a fairly low resistance or an open. If they are open replace them. If the set was ever connected to 240V with the transformer set for 120V it may have burned out the tubes and done other damage. This _should_ have blown the fuse but may have caused some trouble before it opened up. I hope this did not happen.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3076. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 22:18:41 UTC
From: Richard Knoppow
Topic: 3070 Message: 3076

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B
> series Drake twin. He
> is only a Tech so cannot use anything but the lower 10
> meter portion of the
> radio.
>
> However, he is quite a 'listener'. He plugged the R4-B in
> and connected a
> wire to the antenna plug, in the belief he could listen in
> on the different
> bands...but.....
>
> Only 1 tube gets warm..all the others stay cold.
> Evidently the filaments
> are not energized.
>
> Does the TX4-B transmitter and Power supply have be
> connected for the
> receiver to work?
>
> Or does he possibly have a set of dead tubes? (Radio
> hasn't been used for
> 15 years and has been shipped from Germany since the last
> time it was turned
> on)
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
Since you also have the transmitter check it also for
the correct line voltage wiring.

--
Richard Knoppow
Los Angeles
WB6KBL

dickburk@...

3077. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-16 22:21:58 UTC
From: Richard Knoppow
Topic: 3070 Message: 3077

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 12:54 PM
Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B
> series Drake twin. He
> is only a Tech so cannot use anything but the lower 10
> meter portion of the
> radio.
>
> However, he is quite a 'listener'. He plugged the R4-B in
> and connected a
> wire to the antenna plug, in the belief he could listen in
> on the different
> bands...but.....
>
> Only 1 tube gets warm..all the others stay cold.
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> are not energized.
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> Does the TX4-B transmitter and Power supply have be
> connected for the
> receiver to work?
>
> Or does he possibly have a set of dead tubes? (Radio
> hasn't been used for
> 15 years and has been shipped from Germany since the last
> time it was turned
> on)
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
Oh, dear, another thing I forgot. If you do not have the
manuals I recommend you get the CD from Gary Burrell which
has both RX and TX manuals and a lot of other stuff on it.
There _are_ some decent downloadable manuals on the web but
the ones at BAMA are very low resolution and not too useful.
Gary's web site is:
http://www.k4oah.com/

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3078. CW75 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 00:25:31 UTC
From: dtassell@sbcglobal.net
Topic: 3078 Message: 3078

Howdy!

Does anybody have an idea where I can find a manual for a CW75 Keyer? PDF file would be fine, but original would be even better.

Dan KC5PCB

3079. Re: [DrakeRadio] CW75 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 00:49:28 UTC
From: Joe
Topic: 3078 Message: 3079

Dan...

Vintage Manuals has them for $13.00, if you can't get a copy from someone
and decide to pay.
RadioEra is another fee based source...$20.00

http://www.vintagemanuals.com/
http://www.radioera.com/

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <dtassell@...>
Subject: [DrakeRadio] CW75 Manual

> Howdy!
>
> Does anybody have an idea where I can find a manual for a CW75 Keyer? PDF
> file would be fine, but original would be even better.

3080. TR-4C Volume/ RF Gain pot needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 01:07:57 UTC
From: lonelyone_64109
Topic: 3080 Message: 3080

I am looking for a replacement volume/RF gain/power switch potentiometer for my TR-4C. The volume control will not reduce the sound down to a low level (the pot seems to have excessive "play" in the fully counter-clockwise position.The RF gain pot and power switch work fine. Does anyone have one that needs a good home or knows of a company where I can get a replacement? Are both pots audio taper or is the volume control an audio taper and the RF one a linear taper?

Paul WB0CJB

3081. Re: [DrakeRadio] Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 01:41:20 UTC
From: Butch Housman
Topic: 3064 Message: 3081

Richard et all,

I'm not sure what the groups tolerance is for discussions of other brands. I'm thinking this thread MIGHT be generally informational enough to be welcomed however if that is not the case a moderator or the list owner just needs to say something & we can take this off list.

That said.....

I have purchased a Sencore SC 61 oscilloscope which I'm looking for next wk. It may or may not be working properly but I'm hopeful. I've played around w/ them previously but never applied one to a technicality like I'm into now. Sooooo....U & others have been very helpful so far & maybe if I do end up w/ a working scope u folks might provide a few clues as to how to use it for this kind of trouble shooting.

I'm actually having to work this wk end photographing a horse show, (it's amazing that I get by so well just on my gud looks- hi hi). Once I get that nasty piece of business taken care of I figure some more voltage & resistance checks r in order. I'm not discouraged (yet) as I am making steady progress. Thru the yrs I've learned some things even from projects that have not panned out well.

Tnx to everyone,

Butch

[Non-text portions of this message have been removed]

3082. Re: [DrakeRadio] CW75 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 02:06:11 UTC
From: Daniel Tassell
Topic: 3078 Message: 3082

Hi Joe!

Thanks for the reply! I have seen places where I could purchase a copy of one, but I would rather purchase an original from a fellow ham or download a pdf.

I appreciate the website information though.

Dan

--- On Sat, 1/16/10, Joe <WA6RKN@...> wrote:

From: Joe <WA6RKN@gmail.com>
Subject: Re: [DrakeRadio] CW75 Manual
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 16, 2010, 6:49 PM

Dan...

Vintage Manuals has them for $13.00, if you can't get a copy from someone

and decide to pay.

RadioEra is another fee based source...$20. 00

http://www.vintagem anuals.com/

http://www.radioera .com/

Joe Wolfe

WA6RKN

Reno, Nevada

----- Original Message -----

From: <dtassell@sbcglobal. net>

Subject: [DrakeRadio] CW75 Manual

> Howdy!

>

> Does anybody have an idea where I can find a manual for a CW75 Keyer? PDF

> file would be fine, but original would be even better.

[Non-text portions of this message have been removed]

3083. Re: [DrakeRadio] Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 02:24:56 UTC
From: Richard Knoppow
Topic: 3064 Message: 3083

```
----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 5:41 PM
Subject: Re: [DrakeRadio] Still OT Hammarlund

> Richard et all,
>
> I'm not sure what the groups tolerance is for discussions
> of other brands. I'm thinking this thread MIGHT be
> generally informational enough to be welcomed however if
> that is not the case a moderator or the list owner just
> needs to say something & we can take this off list.
>
> That said.....................
>
> I have purchased a Sencore SC 61 oscilloscope which I'm
> looking for next wk. It may or may not be working properly
> but I'm hopeful. I've played around w/ them previously but
> never applied one to a technicality like I'm into now.
> Sooooo....U & others have been very helpful so far & maybe
> if I do end up w/ a working scope u folks might provide a
> few clues as to how to use it for this kind of trouble
> shooting.
>
> I'm actually having to work this wk end photographing a
> horse show, ( it's amazing that I get by so well just on
> my gud looks- hi hi ). Once I get that nasty piece of
> business taken care of I figure some more voltage &
> resistance checks r in order. I'm not discouraged (yet) as
> I am making steady progress. Thru the yrs I've learned
> some things even from projects that have not panned out
> well.
>
> Tnx to everyone,
>
> Butch
>
Your are a photographer too? We really must contact
each other off list. Do a Google search for me for more.
Oscilloscopes are among the most powerful tools for
electronics there are. Even old uncalibrated ones can tell
you a lot and more modern ones with voltage and time
calibration can be used to measure nearly anything. Because
they are very sensitive and generally have very high input
```

impedance they can be used to probe around in circuits with minimal disturbance. So, they are a combination of a signal tracer, voltmeter, frequency or period meter and, with a little interpretion a wave-form analyser. Many modern scopes also have more than one input channel and means of comparison of the inputs. Many also have a means of combining two inputs in or out of polarity. When one is reversed the scope becomes a differential instrument showing the _difference_ between the two inputs. This can be a very useful function. If the Sencor scope you are getting is the one I am picturing in my mind is what I am terming a modern scope, that is, one with calibrated sweep and voltages plus some relatively sophisticated trigger circuit. There have been many books written about how to use an oscilloscope. I think both Tektronix and Hewlett-Packard published something. I need to search my electronic files to be specific. If I have what I think it or they are available off the web for free.

Scopes have the usual problems with dirty pots and switches. They can have more serious problems but that should wait unti you have the beast and see if it works. I think there are some Sencor instruction books on the web in case it comes without one.

As far as the Hammarlund goes I think trouble shooting is a sort of special talent which is applicable to all sorts of things. So, as long as the members of the list tolerate it perhaps even a disussion of some other make of radio may prove helpful with Drake stuff. Otherwise I will be glad to continue via private mail if you like. This list has been very helpful to me and I certainly do not want to abuse it in any way.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3084. Re: [DrakeRadio] CW75 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 03:04:52 UTC
From: Garey Barrell
Topic: 3078 Message: 3084

Dan -

<http://www.wb4hfn.com/DRAKE/DrakeManuals/CW75/Manual_CW75.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

dtassell@... wrote:
> Howdy!
>
> Does anybody have an idea where I can find a manual for a CW75 Keyer? PDF file would be fine, but original would be even better.
>
> Dan KC5PCB
>
>

3085. Re: [DrakeRadio] Balanced Modulator Problem in T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 04:22:58 UTC
From: Richard Knoppow
Topic: 3066 Message: 3085

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, January 15, 2010 7:09 PM
Subject: Re: [DrakeRadio] Balanced Modulator Problem in T-4XB

Progress report.
I replaced the finals. I used the neutralization method suggested in the handbook and ammended on Gary's site (I think), anyway, it seems to work.
I ordered a power supply kit from the Heathkit Shop. He tells me that some of the caps are on back order so it will be a month until I get it. The supply currently has excessive ripple.
I found no output on 20 meters. After poking around a little I decided to check the tuning. It was way off. I did the tuning procedure and now get something like 80 watts on CW. I will do a complete tuning procedure tomorrow. I thought I had done this already but now think I did only a couple of bands because there were too many other problems.
I went after the AM distortion problem by first measuring the tube voltages in a couple of places, particularly of V-11, the control tube, looking for a gassy tube or a bad coupling cap. voltages were near but not right on.
Looking at the circuit I decided the problem with AM might be a gasst screen control tube. I could not find any spare 6AU6 tubes although I know I have some new ones someplace. So, I swapped the two tubes in the RX assuming the problem would at least change. The distortion went away. OK, fine. I swapped the tubes back, still no distortion. Perhaps dirty tube pins. I will still get a couple of new tubes. The curious thing is that there is both a 6AU6 and a 6AU6A in the set and the sockets are marked that way. The 6AU6A is a later version of the 6AU6 but not much different. Usually, the later version of a tube can be used for the earlier version but not always the other way around. I wonder why Drake did this.
The power supply hum is audible on AM on on CW, it probably affects SSB too, as intermodulation, but the steep bass cut off of the IF filters makes it hard to hear.
The small added cap I put in the ring modulator is still working. I used a dipped silvered mica. I think its 10 pf. Anyway I get a perfect carrier null, I mean there just

isn't any carrier.
SSB quality is pinched as others have stated. I think this is just the narrowness of the filters and the distance they are from the effective carrier position. Good intelegibility but not quite natural sounding. On AM, where everything is shifted to the lower sideband filter there is reasonable bass so I think this is not the fault of the audio amplifier circuits. Also, I centered the carrier carefully between the filters and both upper and lower sideband sound alike. I made the listening test using an SP-600-JX because it has an 8 khz wide IF filter so it does not cut anything that the TX is sending. Same for AM. I used a microphone driven by a small speaker to provide the test signal. Of course, this was all done using a dummy load. There is enough leakage from the T connector I use to connect the scope across the RF to provide a signal across the room.
Tomorrow I will finish tuning and see how much difference that makes on the power on other bands. At some point I also should remove the front panel and clean the stuff under it. I will try to find a suitable bit of blue plastic foil for the meter and dial. I held off doing this before because I was so frustrated by the carrier null problem and did not want to put too much work in a unit that might turn out to be non-functioning.
This has been very wordy. I am sending it along in case it might be helpful to others and also, to be frank, because I don't know anyone outside of the mailing lists I belong to that has any slightest interest in the stuff than fascinates me. Maybe that's why were are all here.
Needless to say any suggestions, criticisims, warnings, contratulations, etc, etc, would be welcome. Thank you all for putting up with me and to Gary especially for his expertise and genuine interest.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3086. Re: [DrakeRadio] Balanced Modulator Problem in T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 05:42:12 UTC
From: Richard Knoppow
Topic: 3066 Message: 3086

```
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, January 16, 2010 8:22 PM
Subject: Re: [DrakeRadio] Balanced Modulator Problem in
T-4XB

>
> ----- Original Message -----
> From: "Richard Knoppow" <1oldlens1@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, January 15, 2010 7:09 PM
> Subject: Re: [DrakeRadio] Balanced Modulator Problem in
> T-4XB
>> I ordered a power supply kit from the Heathkit Shop. He
> tells me that some of the caps are on back order so it
> will
> be a month until I get it.

I misread his letter. He has PCBs on back order and
expects them in a few days. I am adding this in case anyone
was discouraged from ordering the kit by thinking there
would be a long delay. My fault, its not the case.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

3087. Re: [DrakeRadio] CW75 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 14:19:27 UTC
From: Daniel Tassell
Topic: 3078 Message: 3087

Thanks Garey!

I appreciate the help!

73's!

Dan KC5PCB

--- On Sat, 1/16/10, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] CW75 Manual
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 16, 2010, 9:04 PM

Dan -

<http://www.wb4hfn. com/DRAKE/ DrakeManuals/ CW75/Manual_ CW75.htm>

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

<www.k4oah.com>

dtassell@sbcglobal. net wrote:

> Howdy!

>

> Does anybody have an idea where I can find a manual for a CW75 Keyer? PDF file would be fine, but original would be even better.

>

> Dan KC5PCB

>

>

[Non-text portions of this message have been removed]

3088. Re: [DrakeRadio] Question for 'B' Operators

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 14:55:06 UTC
From: F Broussard
Topic: 3070 Message: 3088

The R4-B has it's own built-in power supply. It can be used as a receiver without the matching transmitter.

--- On Sat, 1/16/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...com.com>
Subject: Re: [DrakeRadio] Question for 'B' Operators
To: DrakeRadio@yahoogroups.com
Date: Saturday, January 16, 2010, 4:21 PM

----- Original Message -----

From: "Joe" <WA6RKN@gmail. com>

To: <DrakeRadio@yahoogro ups.com>

Sent: Saturday, January 16, 2010 12:54 PM

Subject: [DrakeRadio] Question for 'B' Operators

> We have an older gentleman here in Reno that has a B

> series Drake twin. He

> is only a Tech so cannot use anything but the lower 10

> meter portion of the

> radio.

>

> However, he is quite a 'listener'. He plugged the R4-B in

> and connected a

> wire to the antenna plug, in the belief he could listen in

> on the different

> bands...but. ....

>

> Only 1 tube gets warm..all the others stay cold.

> Evidently the filaments

> are not energized.

>

> Does the TX4-B transmitter and Power supply have be

> connected for the

> receiver to work?

>

> Or does he possibly have a set of dead tubes? (Radio

> hasn't been used for

> 15 years and has been shipped from Germany since the last

> time it was turned

> on)

>

> Thanks!

>

> Joe Wolfe

> WA6RKN

> Reno, Nevada

>

Oh, dear, another thing I forgot. If you do not have the

manuals I recommend you get the CD from Gary Burrell which

has both RX and TX manuals and a lot of other stuff on it.

There _are_ some decent downloadable manuals on the web but

the ones at BAMA are very low resolution and not too useful.

Gary's web site is:

http://www.k4oah. com/

--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

3089. TR7 Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 12:15:29 UTC
From: Adrian Rees
Topic: 3066 Message: 3089

Hello everyone

First of all Happy New Year !

Secondly I am re-building my TR7, and at the moment I am working on the power control board. (the one with the 10K & 1K trimmers on it. So far I've replaced the normal single turn trimmers with 10 turn ones, and replaced the TIP31's (one was damaged, so I thought replace both).

The small transformer on this board is damaged. The core has split either side of the coil. So I guess superglue or epoxy the the core together ?

Cheers

Adrian MW1LCR

3090. Re: [DrakeRadio] TR7 Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 15:48:54 UTC
From: Garey Barrell
Topic: 3066 Message: 3090

Adrian -

Common problem. The core is actually two "E" shaped pieces that
"super-glue" (cyanoacrylate) together. Drake musta' used cheap glue, as
it only held for about 40 years.... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Adrian Rees wrote:
> Hello everyone
>
> First of all Happy New Year !
>
> Secondly I am re-building my TR7, and at the moment I am working on the
> power control board. (the one with the 10K& 1K trimmers on it. So far I've
> replaced the normal single turn trimmers with 10 turn ones, and replaced the
> TIP31's (one was damaged, so I thought replace both).
>
> The small transformer on this board is damaged. The core has split either
> side of the coil. So I guess superglue or epoxy the the core together ?
>
> Cheers
>
> Adrian MW1LCR
>
>

3091. Re: [DrakeRadio] Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-17 23:54:18 UTC
From: Butch Housman
Topic: 3064 Message: 3091

The Sencore is advertised as a "Waveform Analizer" It does have most of the gimmicks u mentioned, dual trace, invert, T Delta measurement (?????) & also includes a digital volt meter & freq. counter. For $88 on ebay I'm trying to remain positive abt it's condition.....money back gaurantee !

I'm looking forward to some basic suggestions on using it from u and anyone else who might like to contribute.

b

[Non-text portions of this message have been removed]

3092. Re: [DrakeRadio] Still OT Hammarlund

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 04:12:04 UTC
From: Richard Knoppow
Topic: 3064 Message: 3092

----- Original Message -----
From: "Butch Housman" <olddeafcoach@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, January 17, 2010 3:54 PM
Subject: Re: [DrakeRadio] Still OT Hammarlund

> The Sencore is advertised as a "Waveform Analizer" It does
> have most of the gimmicks u mentioned, dual trace, invert,
> T Delta measurement (?????) & also includes a digital volt
> meter & freq. counter. For $88 on ebay I'm trying to
> remain positive abt it's condition.....money back
> gaurantee !
>
> I'm looking forward to some basic suggestions on using it
> from u and anyone else who might like to contribute.
>
> b

Delta T is a method of measuring period. The usual arrangement is to have a pair of movable markers on the screen, the time delay between them is displayed on a readout or, in more recent scopes, on the screen. One can measure the period of a waveform using the markers. Most of these will also invert period and readout in frequency. The frequency counter part of the instrument is probably connected to this.
To me a waveform analyser is a different instrument, a tunable voltmeter with calibrated frequency and voltage, essentially a simplified spectrum analyser. Spectrum analysers make swept measurements and display them as a graph of frequency vs: voltage. A wave analyser of the sort I am talking about will make much the same measurement but usually does not have a CRT readout or built-in sweep. Spectrum analysers are extrememly useful for RF work and much audio work. Unfortunately, the antiques I worked on at Hewlett-Packard what seems a lifetime ago are still considered desirable and are too rich for my blood.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3093. RE: [DrakeRadio] TR7 Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 10:18:17 UTC
From: Adrian Rees
Topic: 3066 Message: 3093

Sure

Fixed with epoxy & a tiny cable tie.

Just setting up the voltages and going to have a look at the DR7 as its all over the place.

Thanks

Adrian MW1LCR

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: 17 January 2010 15:49
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR7 Power Supply

Adrian -

Common problem. The core is actually two "E" shaped pieces that "super-glue" (cyanoacrylate) together. Drake musta' used cheap glue, as it only held for about 40 years.... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs <www.k4oah.com>

Adrian Rees wrote:
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> either side of the coil. So I guess superglue or epoxy the the core
> together ?
>
> Cheers
>
> Adrian MW1LCR
>

>

Yahoo! Groups Links

3094. Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 15:04:27 UTC
From: Henry
Topic: 3094 Message: 3094

I have finally got a Drake station in operation! The question I have is what is the best mic to use with my station and has anyone used the Heil mic that is designed for Drake radios? I currently have a Shure 444 on it and get mixed audio reports some say it sounds great and others say it sounds like I am talking through a tube. I have used Heil mics with all my other rigs and had great results. Also has anyone ever used the W2HIY equipment with Drakes? As I stated new to the Drake set up and want to make mine as good as it can be! Thanks in advance for your help!

3095. RE: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 16:04:38 UTC
From: Jim Chaggaris
Topic: 3094 Message: 3095

Henry,

I use a 444D (set on high impedance) with my TR7A and a EV 719 or 664 mic with my B-line and get excellent reports. I also have a Heil Goldline Vintage mic w/W2IHY 8 Band EQ which I use with the B-line and it works well also. Remember that the EQ will help you tailor your voice characteristics more between the mic and radio but you're still limited by the filter bandwidth of the radio.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Henry
Sent: Monday, January 18, 2010 9:04 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Mics for Drakes

I have finally got a Drake station in operation! The question I have is what is the best mic to use with my station and has anyone used the Heil mic that is designed for Drake radios? I currently have a Shure 444 on it and get mixed audio reports some say it sounds great and others say it sounds like I am talking through a tube. I have used Heil mics with all my other rigs and had great results. Also has anyone ever used the W2HIY equipment with Drakes? As I stated new to the Drake set up and want to make mine as good as it can be! Thanks in advance for your help!

[Non-text portions of this message have been removed]

3096. RE: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 16:46:52 UTC
From: firemech048@cfl.rr.com
Topic: 3094 Message: 3096

Thanks Jim. I am running a R-4B with T-4XC transmitter. I also have an L-4B that I have not hooked up to the Drakes yet. I aseriously considering the W2IHY system just so I can make it sound like I do and I like Heil mics so more than likely going to use that mic I just did not want to do that without hearing from someone who has done it. One other question are there any aftermarket filters to install that will improve the Drakes?
--
73's WD4OHM
Henry Gilmore

---- Jim Chaggaris <jimc@...> wrote:
> Henry,
>
>
>
> I use a 444D (set on high impedance) with my TR7A and a EV 719 or 664 mic
> with my B-line and get excellent reports. I also have a Heil Goldline
> Vintage mic w/W2IHY 8 Band EQ which I use with the B-line and it works well
> also. Remember that the EQ will help you tailor your voice characteristics
> more between the mic and radio but you're still limited by the filter
> bandwidth of the radio.
>
> 73,
>
> Jim N9WW
>
>
>
>
>
>
>
>
> James Chaggaris
>
> President
>
> PowerOne Corp./PowerOne Environmental
>
> 1020 Cedar Ave. Suite 203
>
> St. Charles, IL 60174
>
> Phn: 630-443-6500
>
> Fax: 630-443-6505
>

> Website: www.pwrone.com
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Henry
> Sent: Monday, January 18, 2010 9:04 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Mics for Drakes
>
>
>
>
>
> I have finally got a Drake station in operation! The question I have is what
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> am talking through a tube. I have used Heil mics with all my other rigs and
> had great results. Also has anyone ever used the W2HIY equipment with
> Drakes? As I stated new to the Drake set up and want to make mine as good as
> it can be! Thanks in advance for your help!
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3097. RE: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 17:11:19 UTC
From: Jim Chaggaris
Topic: 3094 Message: 3097

Henry,

Because the T4XC filter is about 2.4khz, you'll be limited in transmit bandwidth. It still will sound decent with the 8 band EQ but if you're looking for ESSB quality audio, that won't happen. If I was to do it all over, I would get the W2IHY EQ Plus as it offers more than enough EQ (3 bands) but also has compressor as well.

73

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of firemech048@...
Sent: Monday, January 18, 2010 10:47 AM
To: DrakeRadio@yahoogroups.com
Cc: Jim Chaggaris
Subject: RE: [DrakeRadio] Mics for Drakes

Thanks Jim. I am running a R-4B with T-4XC transmitter. I also have an L-4B that I have not hooked up to the Drakes yet. I aseriously considering the W2IHY system just so I can make it sound like I do and I like Heil mics so more than likely going to use that mic I just did not want to do that without hearing from someone who has done it. One other question are there any aftermarket filters to install that will improve the Drakes?
--
73's WD4OHM
Henry Gilmore

---- Jim Chaggaris <jimc@... <mailto:jimc%40pwrone.com> > wrote:
> Henry,
>
>
>

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> 73,
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> Jim N9WW
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>
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> James Chaggaris
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> President
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> PowerOne Corp./PowerOne Environmental
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> St. Charles, IL 60174
>
> Phn: 630-443-6500
>
> Fax: 630-443-6505
>
> Website: www.pwrone.com
>
>
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of Henry
> Sent: Monday, January 18, 2010 9:04 AM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] Mics for Drakes
>
>
>
>
>
> I have finally got a Drake station in operation! The question I have is what
> is the best mic to use with my station and has anyone used the Heil mic that
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> am talking through a tube. I have used Heil mics with all my other rigs and
> had great results. Also has anyone ever used the W2HIY equipment with
> Drakes? As I stated new to the Drake set up and want to make mine as good as
> it can be! Thanks in advance for your help!
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

3098. RE: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 17:22:45 UTC
From: firemech048@cfl.rr.com
Topic: 3094 Message: 3098

Thanks for you wisdom Jim. I was looking at the EQPlus and I am fairly sure I will get that at Hamcation in Orlando next month. I also want a digital read out for my Drake station. Any idea where I can get the plugs to interface the amp?
--
73's WD4OHM
Henry Gilmore

---- Jim Chaggaris <jimc@pwrone.com> wrote:
> Henry,
>
>
>
> Because the T4XC filter is about 2.4khz, you'll be limited in transmit bandwidth. It still will sound decent with the 8 band EQ but if you're looking for ESSB quality audio, that won't happen. If I was to do it all over, I would get the W2IHY EQ Plus as it offers more than enough EQ (3 bands) but also has compressor as well.
>
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> 73
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> Jim N9WW
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>
> James Chaggaris
>
> President
>
> PowerOne Corp./PowerOne Environmental
>
> 1020 Cedar Ave. Suite 203
>
> St. Charles, IL 60174
>
> Phn: 630-443-6500
>
> Fax: 630-443-6505
>
> Website: www.pwrone.com
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of firemech048@cfl.rr.com

> Sent: Monday, January 18, 2010 10:47 AM
> To: DrakeRadio@yahoogroups.com
> Cc: Jim Chaggaris
> Subject: RE: [DrakeRadio] Mics for Drakes
>
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>
> Thanks Jim. I am running a R-4B with T-4XC transmitter. I also have an L-4B that I have not hooked up to the Drakes yet. I aseriously considering the W2IHY system just so I can make it sound like I do and I like Heil mics so more than likely going to use that mic I just did not want to do that without hearing from someone who has done it. One other question are there any aftermarket filters to install that will improve the Drakes?
> --
> 73's WD4OHM
> Henry Gilmore
>
> ---- Jim Chaggaris <jimc@...m <mailto:jimc%40pwrone.com> > wrote:
> > Henry,
> >
> >
> >
> > I use a 444D (set on high impedance) with my TR7A and a EV 719 or 664 mic
> > with my B-line and get excellent reports. I also have a Heil Goldline
> > Vintage mic w/W2IHY 8 Band EQ which I use with the B-line and it works well
> > also. Remember that the EQ will help you tailor your voice characteristics
> > more between the mic and radio but you're still limited by the filter
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> > Phn: 630-443-6500
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> >
> > From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
> > Behalf Of Henry
> > Sent: Monday, January 18, 2010 9:04 AM
> > To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> > Subject: [DrakeRadio] Mics for Drakes
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3099. RE: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 17:35:55 UTC
From: Jim Chaggaris
Topic: 3094 Message: 3099

Henry,

I've tried all the current display offerings and find that the ESP (Electronic Specialty Products) unit to be the best for my station. I have one for the B-Line and one for my Galaxy GT-550A.

http://www.electronicspecialtyproducts.com/

73,
Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Ave. Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Fax: 630-443-6505
Website: www.pwrone.com

-----Original Message-----
From: firemech048@... [mailto:firemech048@...]
Sent: Monday, January 18, 2010 11:23 AM
To: DrakeRadio@yahoogroups.com
Cc: Jim Chaggaris
Subject: RE: [DrakeRadio] Mics for Drakes

Thanks for you wisdom Jim. I was looking at the EQPlus and I am fairly sure I will get that at Hamcation in Orlando next month. I also want a digital read out for my Drake station. Any idea where I can get the plugs to interface the amp?
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73's WD4OHM
Henry Gilmore

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> Sent: Monday, January 18, 2010 10:47 AM
> To: DrakeRadio@yahoogroups.com
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[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
> > Behalf Of Henry
> > Sent: Monday, January 18, 2010 9:04 AM
> > To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
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3100. Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 17:05:41 UTC
From: rtnmi
Topic: 3100 Message: 3100

I am the proud new owner of a mint Drake L-7 and want to ask a question concerning the EIMAC 3-500Z tubes that are in it. The tubes were removed before shipment of the amp and are in a small box wrapped in bubble wrap. When I put the tubes back in should I have any concern about getting my finger prints (skin oil) on the glass of the tube.

I know with halogen bulbs this can shorten the life, so is there any special care to be taken when cleaning the glass off before insertion and reassembly.

I waited years and years for an amp and in my opinion now own the best there is, so I want to make sure I take care of her as much as possible.

tnx 73
Bob AD5VJ

3101. Re: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 19:43:55 UTC
From: LEE BAHR
Topic: 3100 Message: 3101

You can touch the glass. No problem.

Lee, w0vt

----- Original Message -----
From: rtnmi
To: DrakeRadio@yahoogroups.com
Sent: Monday, January 18, 2010 11:05 AM
Subject: [DrakeRadio] Drake L-7 Tubes

I am the proud new owner of a mint Drake L-7 and want to ask a question concerning the EIMAC 3-500Z tubes that are in it. The tubes were removed before shipment of the amp and are in a small box wrapped in bubble wrap. When I put the tubes back in should I have any concern about getting my finger prints (skin oil) on the glass of the tube.

I know with halogen bulbs this can shorten the life, so is there any special care to be taken when cleaning the glass off before insertion and reassembly.

I waited years and years for an amp and in my opinion now own the best there is, so I want to make sure I take care of her as much as possible.

tnx 73
Bob AD5VJ

[Non-text portions of this message have been removed]

3102. RE: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 20:08:32 UTC
From: Jim Chaggaris
Topic: 3100 Message: 3102

Bob,

The first thing I would do is buy an upgrade Cap board (unless it already has one installed) for the PS.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of LEE BAHR
Sent: Monday, January 18, 2010 1:44 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake L-7 Tubes

You can touch the glass. No problem.

Lee, w0vt

----- Original Message -----
From: rtnmi
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

Sent: Monday, January 18, 2010 11:05 AM
Subject: [DrakeRadio] Drake L-7 Tubes

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I waited years and years for an amp and in my opinion now own the best there is, so I want to make sure I take care of her as much as possible.

tnx 73
Bob AD5VJ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3103. RE: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 20:28:37 UTC
From: Bob AD5VJ
Topic: 3100 Message: 3103

Hi Jim

The power supply has all the upgrades, I checked first thing after inspecting the FedEx monkeys work which bent the front flat panel of the ps. The internals are all good to go, but they bent the right top corner by placing something heavy on top of it.

I have another ham who owns a fab shop who has offered once I settle with FedEx to let me ship the front panel and he will make me a total new one, just like the old one.

Bob AD5VJ

> -----Original Message-----
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Jim Chaggaris
> Sent: Monday, January 18, 2010 2:09 PM
> To: DrakeRadio@yahoogroups.com
> Subject: RE: [DrakeRadio] Drake L-7 Tubes
>
> Bob,
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> The first thing I would do is buy an upgrade Cap board (unless it
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> 73,
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>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of LEE BAHR
> Sent: Monday, January 18, 2010 1:44 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Drake L-7 Tubes
>
>
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>
>
> You can touch the glass. No problem.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: rtnmi
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Monday, January 18, 2010 11:05 AM
> Subject: [DrakeRadio] Drake L-7 Tubes
>

> I am the proud new owner of a mint Drake L-7 and want to ask a question
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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3104. Re: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 20:45:33 UTC
From: amfone
Topic: 3100 Message: 3104

Bob

Congrats on the L7, I purchased mine new in 1979 and still have it. You can touch the tubes no problem. Now, how long have the tubes been in storage?If the answer is several months, I would turn the amp on and let in idle for a few hours before applying RF of course with the tubes in their sockets and filament lit.. Eimac use to say 20 hours before applying RF. The 3-500 can get gassy while in storage and this method is suppose to burn off the gas. There are those who will not agree with this but just my two cents worth.

73 Tim
wb8uhz

_____
From: Bob AD5VJ <rtnmi@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, January 18, 2010 3:28:37 PM
Subject: RE: [DrakeRadio] Drake L-7 Tubes

Hi Jim

The power supply has all the upgrades, I checked first thing after
inspecting the FedEx monkeys work which bent the front flat panel of the ps.
The internals are all good to go, but they bent the right top corner by
placing something heavy on top of it.

I have another ham who owns a fab shop who has offered once I settle with
FedEx to let me ship the front panel and he will make me a total new one,
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Bob AD5VJ

> -----Original Message-----
> From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
> Behalf Of Jim Chaggaris
> Sent: Monday, January 18, 2010 2:09 PM
> To: DrakeRadio@yahoogro ups.com
> Subject: RE: [DrakeRadio] Drake L-7 Tubes
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> Bob,
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> The first thing I would do is buy an upgrade Cap board (unless it
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> To: DrakeRadio@yahoogro ups.com
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> To: DrakeRadio@yahoogro ups.com <mailto:DrakeRadio% 40yahoogroups. com>
> Sent: Monday, January 18, 2010 11:05 AM
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

3105. RE: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-18 20:59:28 UTC
From: Bob AD5VJ
Topic: 3100 Message: 3105

Thank you

It has not been in storage, they were used by another ham over the last 4 years from time to time, but not often. They are the Eimac version of tube and seem to be in really good shape. He said he could get out 1400W on 10 meters, so that is a good sign I have been told.

The only question I have right now is how do you tell if the amp itself has the softkey or softstart mod done to it. Where do you look for the softkey especially.

I have noticed a small board with 1/8 watt resistors and a few diodes which connects directly to the (XMITR OUPUT AGC LINE) phono plug on the back, not sure if this is a softkey mod or not.

Also how do you tell if it has the fast switching relay in it. I have found the mods online, but it doesn't tell you how to tell if you need them or not.

Bob AD5VJ

> -----Original Message-----
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of amfone
> Sent: Monday, January 18, 2010 2:46 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Drake L-7 Tubes
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> _____
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> To: DrakeRadio@yahoogroups.com

> Sent: Mon, January 18, 2010 3:28:37 PM
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> > communication in error, please notify PowerOne Corporation
> immediately,
> > and
> > delete the original message.
> >
> >
> >
> > From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro
> ups.com] On
> > Behalf Of LEE BAHR
> > Sent: Monday, January 18, 2010 1:44 PM
> > To: DrakeRadio@yahoogro ups.com
> > Subject: Re: [DrakeRadio] Drake L-7 Tubes
> >
> >
> >
> >
> >
> > You can touch the glass. No problem.
> >
> > Lee, w0vt

> >
> > ----- Original Message -----
> > From: rtnmi
> > To: DrakeRadio@yahoogro ups.com <mailto:DrakeRadio% 40yahoogroups.
> com>
> > Sent: Monday, January 18, 2010 11:05 AM
> > Subject: [DrakeRadio] Drake L-7 Tubes
> >
> > I am the proud new owner of a mint Drake L-7 and want to ask a
> question
> > concerning the EIMAC 3-500Z tubes that are in it. The tubes were
> > removed
> > before shipment of the amp and are in a small box wrapped in bubble
> > wrap.
> > When I put the tubes back in should I have any concern about getting
> my
> > finger prints (skin oil) on the glass of the tube.
> >
> > I know with halogen bulbs this can shorten the life, so is there any
> > special
> > care to be taken when cleaning the glass off before insertion and
> > reassembly.
> >
> > I waited years and years for an amp and in my opinion now own the
> best
> > there
> > is, so I want to make sure I take care of her as much as possible.
> >
> > tnx 73
> > Bob AD5VJ
> >
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3106. Re: Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 00:15:46 UTC
From: jimburlile
Topic: 3100 Message: 3106

Hi Bob;

Congratsulations on getting the L7, I have my eye on one that a member of the club I am in has and is not using.

I have a little experiance with big tubes, but my father was a first class teleg guy who took care of transmitters for several stations in Ohio years ago.

I used to go with him at times when I was young and do the crawling in and out of the transmitters when doing replacements and mods ect..

For what it is worth the old guys who were in charge of these transmitters, would with out fail allways wipe the tubes down with alcohol and dry them then handle them with white cotton gloves to ensure no fingerprints were on the glass.

I have an idea that in a ham linear it is probbily not nearly as important as a TX running 10K watts 24 hrs a day, but if it were mine I would not leave fingerprints on them.

Jim.

--- In DrakeRadio@yahoogroups.com, "Bob AD5VJ" <rtnmi@...> wrote:
>
> Thank you
>
> It has not been in storage, they were used by another ham over the last 4 years from time to time, but not often. They are the Eimac version of tube and seem to be in really good shape. He said he could get out 1400W on 10 meters, so that is a good sign I have been told.
>
> The only question I have right now is how do you tell if the amp itself has the softkey or softstart mod done to it. Where do you look for the softkey especially.
>
> I have noticed a small board with 1/8 watt resistors and a few diodes which connects directly to the (XMITR OUPUT AGC LINE) phono plug on the back, not sure if this is a softkey mod or not.
>
> Also how do you tell if it has the fast switching relay in it. I have found the mods online, but it doesnâ☐☐t tell you how to tell if you need them or not.
>
> Bob AD5VJ
>
>
> > -----Original Message-----
> > From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of amfone
> > Sent: Monday, January 18, 2010 2:46 PM
> > To: DrakeRadio@yahoogroups.com
> > Subject: Re: [DrakeRadio] Drake L-7 Tubes

> >
> > Bob
> >
> > Congrats on the L7, I purchased mine new in 1979 and still have it. You
> > can touch the tubes no problem. Now, how long have the tubes been in
> > storage?If the answer is several months, I would turn the amp on and
> > let in idle for a few hours before applying RF of course with the
> > tubes in their sockets and filament lit.. Eimac use to say 20 hours
> > before applying RF. The 3-500 can get gassy while in storage and this
> > method is suppose to burn off the gas. There are those who will not
> > agree with this but just my two cents worth.
> >
> > 73 Tim
> > wb8uhz
> >
> >
> >
> >
> > _____
> > From: Bob AD5VJ <rtnmi@...>
> > To: DrakeRadio@yahoogroups.com
> > Sent: Mon, January 18, 2010 3:28:37 PM
> > Subject: RE: [DrakeRadio] Drake L-7 Tubes
> >
> >
> > Hi Jim
> >
> > The power supply has all the upgrades, I checked first thing after
> > inspecting the FedEx monkeys work which bent the front flat panel of
> > the ps.
> > The internals are all good to go, but they bent the right top corner by
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> >
> > I have another ham who owns a fab shop who has offered once I settle
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> > FedEx to let me ship the front panel and he will make me a total new
> > one,
> > just like the old one.
> >
> > Bob AD5VJ
> >
> > > -----Original Message-----
> > > From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro
> > ups.com] On
> > > Behalf Of Jim Chaggaris
> > > Sent: Monday, January 18, 2010 2:09 PM
> > > To: DrakeRadio@yahoogro ups.com
> > > Subject: RE: [DrakeRadio] Drake L-7 Tubes
> > >

> > > Bob,
> > >
> > >
> > >
> > > The first thing I would do is buy an upgrade Cap board (unless it
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> > > has one installed) for the PS.
> > >
> > >
> > >
> > > 73,
> > >
> > > Jim N9WW
> > >
> > >
> > >
> > > James Chaggaris
> > >
> > > President
> > >
> > > PowerOne Corp./PowerOne Environmental
> > >
> > > 1020 Cedar Avenue
> > >
> > > Suite 203
> > >
> > > St. Charles, IL 60174
> > >
> > > Phn: (630) 443-6500
> > >
> > > Fax: (630) 443-6505
> > >
> > > Website: www.pwrone.com
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> > > Behalf Of LEE BAHR
> > > Sent: Monday, January 18, 2010 1:44 PM
> > > To: DrakeRadio@yahoogro ups.com
> > > Subject: Re: [DrakeRadio] Drake L-7 Tubes
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> > >
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> > > You can touch the glass. No problem.
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> > > Lee, w0vt
> > >
> > > ----- Original Message -----
> > > From: rtnmi
> > > To: DrakeRadio@yahoogro ups.com <mailto:DrakeRadio% 40yahoogroups.
> > com>
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> > > I am the proud new owner of a mint Drake L-7 and want to ask a
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> > > is, so I want to make sure I take care of her as much as possible.
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> > > tnx 73
> > > Bob AD5VJ
> > >
> > > [Non-text portions of this message have been removed]
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3107. Re: [DrakeRadio] Mics for Drakes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 02:40:30 UTC
From: Jim Shorney
Topic: 3094 Message: 3107

Any decent high impedance mic should sound good. The 444 has a mellow, natural sound that works well for casual rag chewing. A ceramic mic, such as the D-104 (modded with an added 470K resistor), EV 729, Turner 254HC, etc., are good DXing and contesting mics.

73

-Jim

On Mon, 18 Jan 2010 15:04:27 -0000, Henry wrote:

>I have finally got a Drake station in operation! The question I have is what is the best mic to use with my station and has anyone used the Heil mic that is designed for Drake radios? I currently have a Shure 444 on it and get mixed audio reports some say it sounds great and others say it sounds like I am talking through a tube. I have used Heil mics with all my other rigs and had great results. Also has anyone ever used the W2HIY equipment with Drakes? As I stated new to the Drake set up and want to make mine as good as it can be! Thanks in advance for your help!
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3108. Re: [DrakeRadio] Mics for Drakes and What for?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 02:48:30 UTC
From: Kris Merschrod
Topic: 3094 Message: 3108

Jim is right on the mark - keep the audio system simple, use what was designed for the Drake, and focus on speaking clearly!

I also liked Garey's " What for?" today on the dummy-loaded TR-4 with SB101.

Keeping things simple is one way to enjoy the hobby; I guess that driving a square peg in a round hole is also enjoyable too :>)

Kris (KA2OIG)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, January 18, 2010 9:40 PM
Subject: Re: [DrakeRadio] Mics for Drakes

Any decent high impedance mic should sound good. The 444 has a mellow, natural sound that works well for casual rag chewing. A ceramic mic, such as the D-104 (modded with an added 470K resistor), EV 729, Turner 254HC, etc., are good DXing and contesting mics.

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http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

3109. Re: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 03:16:03 UTC
From: Jim Shorney
Topic: 3100 Message: 3109

My sources say that you need color in the plates to getter the tubes. I'll run the amp in CW mode key-down with no drive for a few minutes with some red glow in the plates, then let things cool for a while. Rinse and repeat.

73

-Jim

On Mon, 18 Jan 2010 12:45:33 -0800 (PST), amfone wrote:

> Bob
>
>Congrats on the L7, I purchased mine new in 1979 and still have it. You can touch the tubes no problem. Now, how long have the tubes been in storage?If the answer is several months, I would turn the amp on and let in idle for a few hours before applying RF of course with the tubes in their sockets and filament lit.. Eimac use to say 20 hours before applying RF. The 3-500 can get gassy while in storage and this method is suppose to burn off the gas. There are those who will not agree with this but just my two cents worth.
>
>73 Tim
>wb8uhz
>
>
>
>
>_____
>From: Bob AD5VJ <rtnmi@...>
>To: DrakeRadio@yahoogroups.com
>Sent: Mon, January 18, 2010 3:28:37 PM
>Subject: RE: [DrakeRadio] Drake L-7 Tubes
>
>
>Hi Jim
>
>The power supply has all the upgrades, I checked first thing after
>inspecting the FedEx monkeys work which bent the front flat panel of the ps.
>The internals are all good to go, but they bent the right top corner by
>placing something heavy on top of it.
>
>I have another ham who owns a fab shop who has offered once I settle with
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>just like the old one.
>
>Bob AD5VJ
>
>> -----Original Message-----

>> From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
>> Behalf Of Jim Chaggaris
>> Sent: Monday, January 18, 2010 2:09 PM
>> To: DrakeRadio@yahoogro ups.com
>> Subject: RE: [DrakeRadio] Drake L-7 Tubes
>>
>> Bob,
>>
>>
>>
>> The first thing I would do is buy an upgrade Cap board (unless it
>> already
>> has one installed) for the PS.
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>>
>> 73,
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>> Jim N9WW
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>>
>> James Chaggaris
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>> President
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>> PowerOne Corp./PowerOne Environmental
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>> 1020 Cedar Avenue
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>> Suite 203
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>> St. Charles, IL 60174
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>> Website: www.pwrone.com
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>> From: DrakeRadio@yahoogro ups.com [mailto:DrakeRadio@yahoogro ups.com] On
>> Behalf Of LEE BAHR
>> Sent: Monday, January 18, 2010 1:44 PM
>> To: DrakeRadio@yahoogro ups.com
>> Subject: Re: [DrakeRadio] Drake L-7 Tubes
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>> You can touch the glass. No problem.
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>> From: rtnmi
>> To: DrakeRadio@yahoogro ups.com <mailto:DrakeRadio% 40yahoogroups. com>
>> Sent: Monday, January 18, 2010 11:05 AM
>> Subject: [DrakeRadio] Drake L-7 Tubes
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>> I waited years and years for an amp and in my opinion now own the best
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>> Bob AD5VJ
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3110. RE: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 03:23:21 UTC
From: Jim Shorney
Topic: 3100 Message: 3110

On Mon, 18 Jan 2010 14:59:28 -0600, Bob AD5VJ wrote:

>The only question I have right now is how do you tell if the amp itself has the softkey or softstart mod done to it. Where do you look for the softkey especially.

I think I just answered this on another list. :)

You need the manual, your eyes, and what is between your ears. Look for something that isn't there in the pictures, and isn't on the schematic. A soft key will be connected between the T/R relay coil and the VOX jack on the back. A soft-start will be wired into the 110/220 primary circuit. The location and appearance of each will vary depending on the mod and the modder.

Be careful. This amp is quite capable of killing you. If you don't understand any of the above, or aren't familiar with high voltage safety protocols, I strongly suggest that you take the amp to someone who is comfortable with servicing this type of equipment.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3111. RE: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-19 03:49:59 UTC
From: Bob AD5VJ
Topic: 3100 Message: 3111

Hi Jim

Thanks for the information. I looked inside and the only board I have is a small one which connects to the 'XMITR AGC OUTPUT' phono plug.

I didn't see that in this very poor pdf attempt at a manual, but it isn't going to the VOX phono for sure. I also don't see anything at the changeover relay.

So guess I have some work to do. I would like to have both since I enjoy very much cw.

Also, I will be very careful, never worked on one of these but used to repair tv sets in the old days. So will be cautious.

Bob AD5VJ

> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Jim Shorney
> Sent: Monday, January 18, 2010 9:23 PM
> To: DrakeRadio@yahoogroups.com
> Subject: RE: [DrakeRadio] Drake L-7 Tubes
>
> On Mon, 18 Jan 2010 14:59:28 -0600, Bob AD5VJ wrote:
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> >The only question I have right now is how do you tell if the amp
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>
> -Jim
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3112. RV-4 Tuning Dial Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 15:06:24 UTC
From: VE3FMC
Topic: 3112 Message: 3112

Can anyone tell me if there is the normal blue filter in behind the RV-4 tuning dial?
Thanks

3113. Re: RV-4 Tuning Dial Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 19:01:43 UTC
From: VE3FMC
Topic: 3112 Message: 3113

OK I tore em apart and pulled the old blue filters out. Now with the new blue LED bulbs installed the TR-4C/RV-4 look really good in the dark!

--- In DrakeRadio@yahoogroups.com, "VE3FMC" <ve3fmc@...> wrote:
>
> Can anyone tell me if there is the normal blue filter in behind the RV-4 tuning dial?
> Thanks
>

3114. REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 18:57:00 UTC
From: VE3FMC
Topic: 3114 Message: 3114

I recently replaced the original bulbs in my TR-4C/RV-4 with blue led bulbs I purchased from Don N9OO.

I removed the original blue plastic filters behind the tuning dials and the S meter before installing the new bulbs.

Now there is a nice soft blue glow behind the S meter and tuning dials.
Looks great.

Here is Don's website
http://www.radiolabworks.com/products/4linelamps/4linelamp.html

3115. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 22:34:59 UTC
From: Richard Knoppow
Topic: 3114 Message: 3115

----- Original Message -----
From: "VE3FMC" <ve3fmc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 20, 2010 10:57 AM
Subject: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

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>with blue led bulbs I purchased from Don N9OO.
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> tuning dials and the S meter before installing the new
> bulbs.
>
> Now there is a nice soft blue glow behind the S meter and
> tuning dials.
> Looks great.
>
> Here is Don's website
> http://www.radiolabworks.com/products/4linelamps/4linelamp.html
>
>
I just finished replacing the blue gels in the T-4XB I
am slowly repairing. Considering the difficulty of finding
suitable material and the work involved in replacing it the
above looks like a good deal. I finally found what I wanted
in a large local art supply store after looking at a few
others. It took two layers to get the color right. My R-4B
which looked alright before now looks a bit greenish in
comparison. Since the guy has to make these lamps by hand
and considering their long life the price seems quite
reasonable.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3116. Re: [DrakeRadio] Drake L-7 Tubes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 22:40:06 UTC
From: Richard Knoppow
Topic: 3100 Message: 3116

----- Original Message -----
From: "rtnmi" <rtnmi@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 18, 2010 9:05 AM
Subject: [DrakeRadio] Drake L-7 Tubes

>I am the proud new owner of a mint Drake L-7 and want to
>ask a question concerning the EIMAC 3-500Z tubes that are
>in it. The tubes were removed before shipment of the amp
>and are in a small box wrapped in bubble wrap. When I put
>the tubes back in should I have any concern about getting
>my finger prints (skin oil) on the glass of the tube.
>
> I know with halogen bulbs this can shorten the life, so is
> there any special care to be taken when cleaning the glass
> off before insertion and reassembly.
>
> I waited years and years for an amp and in my opinion now
> own the best there is, so I want to make sure I take care
> of her as much as possible.
>
> tnx 73
> Bob AD5VJ
>
I tried to find something specific in the Eimac books I
have available but couldn't. My memory is that the envelopes
of these tubes should be very clean to prevent strains from
localized heating since the tubes run _very_ hot in use.
This was also true of the old Eimac triodes. The tubes use
plate material containing tantalum which acts as a getter
when at red heat. The tubes are designed to run with the
plates at red to yellow heat. I would clean the tubes with
diswashing detergent and make sure there is no residue and
then handle them with gloves. Food handling gloves will do.
I am quite sure there is something in Eimac or Varian
literature about this.
I am not so sure about electron bombardment heating of
residue on the bulb but that may also be a concern, the
localized heating I am writing about is from simple
absorption by a substance on the surface.

--
Richard Knoppow
Los Angeles
WB6KBL

dickburk@...

3117. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-20 23:06:59 UTC
From: Dale Parfitt
Topic: 3114 Message: 3117

A much nicer, cheaper and commercially made blue bayonette LED is available from SuperbrightLEDS.com
http://www.superbrightleds.com/cgi-bin/store/index.cgi?action=DispPage&Page2Disp=%2FBA9S6_specs.htm
Dale W4OP

[Non-text portions of this message have been removed]

3118. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 04:16:53 UTC
From: Richard Knoppow
Topic: 3114 Message: 3118

----- Original Message -----
From: "Dale Parfitt" <parinc1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, January 20, 2010 3:06 PM
Subject: Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE
PRODUCTS

>A much nicer, cheaper and commercially made blue bayonette
>LED is available from SuperbrightLEDS.com
> http://www.superbrightleds.com/cgi-bin/store/index.cgi?action=DispPage&Page2Disp=%2FBA9S
6_specs.htm
> Dale W4OP
>
Thanks for the link. This looks like the ideal answer. I
think LEDs will run on AC as well as DC. I tried this with a
makeshift and it seems to work.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3119. RE: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 04:20:16 UTC
From: Jim Chaggaris
Topic: 3114 Message: 3119

Richard,

This site was brought up on the Drake Net last Spring and since then, I've bought a !@#! load of LED's from them. Great stuff and priced right.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow
Sent: Wednesday, January 20, 2010 10:17 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

----- Original Message -----
From: "Dale Parfitt" <parinc1@... <mailto:parinc1%40verizon.net> >
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Wednesday, January 20, 2010 3:06 PM
Subject: Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

>A much nicer, cheaper and commercially made blue bayonette
>LED is available from SuperbrightLEDS.com
> http://www.superbrightleds.com/cgi-bin/store/index.cgi?action=DispPage
<http://www.superbrightleds.com/cgi-bin/store/index.cgi?action=DispPage&Page
2Disp=%2FBA9S6_specs.htm> &Page2Disp=%2FBA9S6_specs.htm
> Dale W4OP
>
Thanks for the link. This looks like the ideal answer. I
think LEDs will run on AC as well as DC. I tried this with a
makeshift and it seems to work.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@... <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

3120. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 04:30:24 UTC
From: LEE BAHR
Topic: 3114 Message: 3120

Am I correct in assuming I should order: BA9s-B configured for 6 VAC ?? (To be used in C line as well as TR-7 line)

Lee, w0vt

>A much nicer, cheaper and commercially made blue bayonette
>LED is available from SuperbrightLEDS.com
> http://www.superbrightleds.com/cgi-bin/store/index.cgi?action=DispPage&Page2Disp=%2FBA9S6_specs.htm
> Dale W4OP
>

[Non-text portions of this message have been removed]

3121. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 04:33:03 UTC
From: Dale Parfitt
Topic: 3114 Message: 3121

Hi Richard,
I have the BA9s-B which is a 6V AC/DC and I see I also have a BA9s-W in 12 V AC/DC. I used these in my 4 line and 7 line- I don't recall which was which now.

Dale W4OP

Thanks for the link. This looks like the ideal answer. I
think LEDs will run on AC as well as DC. I tried this with a
makeshift and it seems to work.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.730 / Virus Database: 271.1.1/2635 - Release Date: 01/20/10 14:18:00

[Non-text portions of this message have been removed]

3122. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 04:53:53 UTC
From: Jim Shorney
Topic: 3114 Message: 3122

On Wed, 20 Jan 2010 23:33:03 -0500, Dale Parfitt wrote:

>I have the BA9s-B which is a 6V AC/DC and I see I also have a BA9s-W in 12 V AC/DC. I used these in my 4 line and 7 line- I don't recall which was which now.

The TR-7 and accessories use 12V DC for the lamps (really, about 13.4 if you want to get picky). IIRC, the L-7 runs the lamps off the tube filament supply, which would be 5V AC.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3123. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 09:45:25 UTC
From: g4jss@tiscali.co.uk
Topic: 3114 Message: 3123

Re bulbs can anybody tell me what type No. I will need for the R4C and T-4XC. Please note that they have differing voltages - the R4C is 6.3v and the T-4XC 13.6v

Vic

[Non-text portions of this message have been removed]

3124. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 14:25:30 UTC
From: Al
Topic: 3114 Message: 3124

Both the R-4C and the T-4CX use the #47 bulb, it's on the schematic and should be listed on the parts list too. It's a 6.3 volt, .15 amp bulb.

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Thu, 1/21/10, g4jss@... <g4jss@...> wrote:

From: g4jss@tiscali.co.uk <g4jss@...>
Subject: Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS
To: DrakeRadio@yahoogroups.com
Date: Thursday, January 21, 2010, 2:45 AM

Re bulbs can anybody tell me what type No. I will need for the R4C and T-4XC. Please note that they have differing voltages - the R4C is 6.3v and the T-4XC 13.6v

Vic

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3125. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 14:31:39 UTC
From: Garey Barrell
Topic: 3114 Message: 3125

Vic -

All are 6.3V #47 bulbs. They are in parallel in the R-4C and in they
have 39 ohm resistors in series.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Re bulbs can anybody tell me what type No. I will need for the R4C and T-4XC. Please note that they have differing voltages - the R4C is 6.3v and the T-4XC 13.6v
>
>
>
> Vic
>
>

3126. R-4C sensitivity on 20m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 13:10:23 UTC
From: Steve
Topic: 3126 Message: 3126

Hi to all - I'm new to the group and to Drake, it's really good to see a forum where help can be found with these great old radios.

Anyway, my R4C is working well, except that recently the sensitivity on 20m seems to have dropped. Alongside other radios, it's about 2 S-points down, and the calibration signal gives an S8-9 only - and about S6-7 on intermediate frequencies between the higher readings.

On all other bands 80m - 10m the calibration signal gives well over S9.

When not connected to an aerial, I can only just detect an increase in background when tuning the preselector - on the other bands it is easy to hear.

Given that this problem is specific to 20m, does it look like an alignment issue? When I bought the radio 2 months ago, it was fine on all bands. If it is alignment, I wonder what could have caused a movement over a couple of months - I haven't had the box open except to take some pictures when I bought the rig.

Any help in this would be great, thanks and 73, Steve, MW0KST.

3127. Re: [DrakeRadio] REPLACEMENT BLUBS FOR DRAKE PRODUCTS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 14:35:00 UTC
From: Garey Barrell
Topic: 3114 Message: 3127

Vic -

All are 6.3V #47 bulbs. They are in parallel in the R-4C and in they have 39 ohm resistors in
series ...

Oops, should add "in the T-4XC"!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Re bulbs can anybody tell me what type No. I will need for the R4C and T-4XC. Please note that they have differing voltages - the R4C is 6.3v and the T-4XC 13.6v
>
>
>
> Vic
>
>

3128. Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 14:42:38 UTC
From: Garey Barrell
Topic: 3128 Message: 3128

When everyone gets their new LED's, please let us know what you think about the diffusion (how even is the light over the dial), and how close is the color to the original blue with a slight tinge of green (Lee Lighting 172, "Lagoon Blue")?

I have tried several, and all are that horrible BLUE typically seen on stereos and VCRs, and has a bright, (often purple,) spot in the middle of the dial.

They've been the "right" color for 40+ years, just me I guess.....

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3129. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 17:26:10 UTC
From: g4jss@tiscali.co.uk
Topic: 3128 Message: 3129

Garey

Thanks for info - see what you mean about the voltages, series, parallel etc.

Yes, the schematic does say #47 but I haven't a clue what that means. If I walked into a store here and asked for a #47 bulb I would get blanked. All I was asking was what type No. on that catalogue is the equivalent to the #47.

Re the display, I have a couple of rigs here fitted with those hand made LED's and they do tend to look like modern sterios etc. but nevertheless quite attractive and no purple spot in the middle. I also have another two with normal #47 which have gone green. Both work as well as each other so I guess it's a matter of what pleases the eye rather than the ear.

Thanks again, Garey

Vic

[Non-text portions of this message have been removed]

3130. RE: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 17:34:05 UTC
From: Jim Chaggaris
Topic: 3128 Message: 3130

I bought a few of the blue and some of the white LEDS to try out on my B-Line. I have to say I still prefer the good ole #47's.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Thursday, January 21, 2010 8:43 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: LED Bulbs

When everyone gets their new LED's, please let us know what you think about the diffusion (how even is the light over the dial), and how close is the color to the original blue with a slight tinge of green (Lee Lighting 172, "Lagoon Blue")?

I have tried several, and all are that horrible BLUE typically seen on stereos and VCRs, and has a bright, (often purple,) spot in the middle of the dial.

They've been the "right" color for 40+ years, just me I guess.....

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

3131. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 19:24:33 UTC
From: Richard Knoppow
Topic: 3128 Message: 3131

----- Original Message -----
From: <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 21, 2010 9:26 AM
Subject: Re: [DrakeRadio] Re: LED Bulbs

>
> Garey
>
> Thanks for info - see what you mean about the voltages,
> series, parallel etc.
>
> Yes, the schematic does say #47 but I haven't a clue what
> that means. If I walked into a store here and asked for a
> #47 bulb I would get blanked. All I was asking was what
> type No. on that catalogue is the equivalent to the #47.
>
> Re the display, I have a couple of rigs here fitted with
> those hand made LED's and they do tend to look like modern
> sterios etc. but nevertheless quite attractive and no
> purple spot in the middle. I also have another two with
> normal #47 which have gone green. Both work as well as
> each other so I guess it's a matter of what pleases the
> eye rather than the ear.
>
> Thanks again, Garey
>
The #47 is a standard small lamp used for pilot and
dial lamps. Even Radio Shack has them. Small bayonet base,
6.3 volts 150 ma.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3132. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 19:28:40 UTC
From: Richard Knoppow
Topic: 3128 Message: 3132

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 21, 2010 6:42 AM
Subject: [DrakeRadio] Re: LED Bulbs

>
> When everyone gets their new LED's, please let us know
> what you think
> about the diffusion (how even is the light over the dial),
> and how close
> is the color to the original blue with a slight tinge of
> green (Lee
> Lighting 172, "Lagoon Blue")?
>
> I have tried several, and all are that horrible BLUE
> typically seen on
> stereos and VCRs, and has a bright, (often purple,) spot
> in the middle
> of the dial.
>
> They've been the "right" color for 40+ years, just me I
> guess.....
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>

At the time the T4 and R4 were made a sort of greenish
blue color seems to have been popular for dials and meters.
To my eye this was very close to the color of the newer
"burn-proof" phosphors used in CRTs and magic eye tubes of
the time. The older P-2 phosphor was definitely green, this
phosphor was nearly blue although of the same persistance,
etc, as the older phosphor.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3133. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 19:39:01 UTC
From: Richard Hanna
Topic: 3128 Message: 3133

If you like the "incandescent look" try replacing the #47 with a #755 indicator lamp. Same ratings, much longer life expectancy than a #47. Since I started using them in all the radios that call for the 47, I have never had to replace them!..

Dick Hanna
K3VYY

--- On Thu, 1/21/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: Re: [DrakeRadio] Re: LED Bulbs
To: DrakeRadio@yahoogroups.com
Date: Thursday, January 21, 2010, 2:28 PM

----- Original Message -----
From: "Garey Barrell" <k4oah@mindspring. com>
To: <DrakeRadio@yahoogro ups.com>
Sent: Thursday, January 21, 2010 6:42 AM
Subject: [DrakeRadio] Re: LED Bulbs

>
> When everyone gets their new LED's, please let us know
> what you think
> about the diffusion (how even is the light over the dial),
> and how close
> is the color to the original blue with a slight tinge of
> green (Lee
> Lighting 172, "Lagoon Blue")?
>
> I have tried several, and all are that horrible BLUE
> typically seen on
> stereos and VCRs, and has a bright, (often purple,) spot
> in the middle
> of the dial.
>
> They've been the "right" color for 40+ years, just me I
> guess.....
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>

At the time the T4 and R4 were made a sort of greenish
blue color seems to have been popular for dials and meters.
To my eye this was very close to the color of the newer

"burn-proof" phosphors used in CRTs and magic eye tubes of
the time. The older P-2 phosphor was definitely green, this
phosphor was nearly blue although of the same persistance,
etc, as the older phosphor.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

3134. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 19:43:37 UTC
From: Garey Barrell
Topic: 3128 Message: 3134

Dick -

Same here. Been using and recommending them for about 20 years.
Haven't replaced one yet.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Hanna wrote:
> If you like the "incandescent look" try replacing the #47 with a #755 indicator lamp. Same ratings, much longer life expectancy than a #47. Since I started using them in all the radios that call for the 47, I have never had to replace them!..
>
> Dick Hanna
> K3VYY
>
>
>
> --- On Thu, 1/21/10, Richard Knoppow<1oldlens1@...> wrote:
>
>
> From: Richard Knoppow<1oldlens1@...>
> Subject: Re: [DrakeRadio] Re: LED Bulbs
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, January 21, 2010, 2:28 PM
>
>
>
>
>
>
>
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@mindspring. com>
> To:<DrakeRadio@yahoogro ups.com>
> Sent: Thursday, January 21, 2010 6:42 AM
> Subject: [DrakeRadio] Re: LED Bulbs
>
>
>> When everyone gets their new LED's, please let us know
>> what you think
>> about the diffusion (how even is the light over the dial),
>> and how close

>> is the color to the original blue with a slight tinge of
>> green (Lee
>> Lighting 172, "Lagoon Blue")?
>>
>> I have tried several, and all are that horrible BLUE
>> typically seen on
>> stereos and VCRs, and has a bright, (often purple,) spot
>> in the middle
>> of the dial.
>>
>> They've been the "right" color for 40+ years, just me I
>> guess.....
>>
>> --
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
> At the time the T4 and R4 were made a sort of greenish
> blue color seems to have been popular for dials and meters.
> To my eye this was very close to the color of the newer
> "burn-proof" phosphors used in CRTs and magic eye tubes of
> the time. The older P-2 phosphor was definitely green, this
> phosphor was nearly blue although of the same persistance,
> etc, as the older phosphor.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@ix. netcom.com
>
>
>
>

3135. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 20:42:27 UTC
From: Al
Topic: 3128 Message: 3135

I did some searching and came up with this, AR88 Pilot bulbs lamps. I don't know if it cross references to what you use over there but it's the only thing I could find. It's suppose to be the same as a #47 bulb/lamp. Here is a link to a place that sells the #47 bulbs in the UK.
http://www.t2retail.co.uk/Bulbs/47_Bayonet_Base_lamp_Bulb

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Thu, 1/21/10, g4jss@... <g4jss@...> wrote:

From: g4jss@... <g4jss@...>
Subject: Re: [DrakeRadio] Re: LED Bulbs
To: DrakeRadio@yahoogroups.com
Date: Thursday, January 21, 2010, 10:26 AM

Garey

Thanks for info - see what you mean about the voltages, series, parallel etc.

Yes, the schematic does say #47 but I haven't a clue what that means. If I walked into a store here and asked for a #47 bulb I would get blanked. All I was asking was what type No. on that catalogue is the equivalent to the #47.

Re the display, I have a couple of rigs here fitted with those hand made LED's and they do tend to look like modern sterios etc. but nevertheless quite attractive and no purple spot in the middle. I also have another two with normal #47 which have gone green. Both work as well as each other so I guess it's a matter of what pleases the eye rather than the ear.

Thanks again, Garey

Vic

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3136. Re: [DrakeRadio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 20:53:29 UTC
From: Al
Topic: 3128 Message: 3136

Here in the US it is/was Radioshack, but I think in the UK it was Tandy which I have read is no longer in business in the UK.

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Thu, 1/21/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: Re: [DrakeRadio] Re: LED Bulbs
To: DrakeRadio@yahoogroups.com
Date: Thursday, January 21, 2010, 12:24 PM

----- Original Message -----

From: <g4jss@tiscali. co.uk>

To: <DrakeRadio@yahoogro ups.com>

Sent: Thursday, January 21, 2010 9:26 AM

Subject: Re: [DrakeRadio] Re: LED Bulbs

>

> Garey

>

> Thanks for info - see what you mean about the voltages,

> series, parallel etc.

>

> Yes, the schematic does say #47 but I haven't a clue what

> that means. If I walked into a store here and asked for a

> #47 bulb I would get blanked. All I was asking was what

> type No. on that catalogue is the equivalent to the #47.

>

> Re the display, I have a couple of rigs here fitted with

> those hand made LED's and they do tend to look like modern

> sterios etc. but nevertheless quite attractive and no

> purple spot in the middle. I also have another two with

> normal #47 which have gone green. Both work as well as

> each other so I guess it's a matter of what pleases the

> eye rather than the ear.

>

> Thanks again, Garey

>

The #47 is a standard small lamp used for pilot and

dial lamps. Even Radio Shack has them. Small bayonet base,

6.3 volts 150 ma.

--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

3137. Re: [Drake Radio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-21 22:55:06 UTC
From: Big Mike
Topic: 3128 Message: 3137

Richard,

Have you noticed how fast the modern #47 lamps burn out? Not like the ones we used back in the 50's or so. You can not find them with brass bases anymore either. Very seldom do I ever see those.

I have got blue LED's in my twins and one of the TR-4's. They seem to look nice to me, but not the same blue as with the clear #47 and blue/white plastic. Just my opinion. You can follow the link in my signature line at the bottom of the email and look at the twins.

73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

3138. Re: [DrakeRadio] Re: [Drake Radio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-22 07:55:43 UTC
From: Richard Knoppow
Topic: 3128 Message: 3138

----- Original Message -----
From: "Big Mike" <k5vse@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 21, 2010 2:55 PM
Subject: [DrakeRadio] Re: [Drake Radio] Re: LED Bulbs

> Richard,
>
> Have you noticed how fast the modern #47 lamps burn out?
> Not like the ones we used back in the 50's or so. You can
> not find them with brass bases anymore either. Very seldom
> do I ever see those.
>
> I have got blue LED's in my twins and one of the TR-4's.
> They seem to look nice to me, but not the same blue as
> with the clear #47 and blue/white plastic. Just my
> opinion. You can follow the link in my signature line at
> the bottom of the email and look at the twins.
>
> 73,
>

In fact I notice this generally with incandescent bulbs. I added series resistors to the dial string in my SP-600 because the bulbs lasted only a couple of months. This may be partly due to high line voltage. The resistor extends the life considerably, maybe a year or more. I have not tried the 755 lamps yet but it seems a logical next step. I could also use #44 lamps. The additional current draw would lower the voltage even more. While a direct comparison shows the lamps are dimmer with the series resistor its not by much and I found them too bright to begin with.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3139. Re: [DrakeRadio] Re: [Drake Radio] Re: LED Bulbs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-22 08:01:19 UTC
From: LEE BAHR
Topic: 3128 Message: 3139

Clue: "Made in China"

Lee, w0vt

> Have you noticed how fast the modern #47 lamps burn out?
> Not like the ones we used back in the 50's or so. You can
> not find them with brass bases anymore either. Very seldom
> do I ever see those.

[Non-text portions of this message have been removed]

3140. Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-23 16:31:36 UTC
From: captcurt2000
Topic: 3140 Message: 3140

Good Morning:

Is there a fix for a TR3 freq dial that has gone completely dark brown?

Curt
KU8L

3141. Re: [DrakeRadio] Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-23 16:42:05 UTC
From: Garey Barrell
Topic: 3140 Message: 3141

Not really. A scan of a good dial printed on a transparent label and stuck on one of the clear CD pieces at the bottom and top of every stack of CDs might could be made to work. Otherwise one from a parts donor.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> Good Morning:
>
> Is there a fix for a TR3 freq dial that has gone completely dark brown?
>
> Curt
> KU8L
>
>

3142. PA1HFO PIN diode attenuator for the TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-24 17:24:47 UTC
From: floydsense
Topic: 3142 Message: 3142

I have a new article on my website describing how I implemented Mark Stralen's PIN diode attenuator for the TR7. Mark's original article didn't explain how the bandswitch position was sensed and I worked out an approach to that. Here's the link:

http://www.k8ac.net/Attenuator.html

Email me if any questions.

73, K8AC

3143. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-24 17:31:29 UTC
From: querencias
Topic: 3140 Message: 3143

Now, THAT, is a clever idea! Thanks a lot for suggesting it. I have some OLD boat-anchors with warped dials and am not smart enough to imagine that remedy - PERFECT.

73 de Grant KT6L

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Not really. A scan of a good dial printed on a transparent label and
> stuck on one of the clear CD pieces at the bottom and top of every stack
> of CDs might could be made to work. Otherwise one from a parts donor.

3144. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-24 20:02:42 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3144

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3145. Crystals for sale or trade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-24 20:42:13 UTC
From: de_n7ioh
Topic: 3145 Message: 3145

I have the following extra crystals that I do not need for sale or trade. I am asking $15 each plus shipping from, Payson, Arizona, 85541. I am in need of two 12.6 mHz crystals for the 160 meter band. One 29.1 mHz crystal and one 35.6 mHz crystal for the 17 and 12 meter bands.

For sale or trade:
One 25.1 mHz 20 meter band
One 32.1 mHz 15 meter band
Two 39.6 mHz 10 meter band, 28.5 - 29 mHz
One 38.1 mHz CB band, 27 - 27.5 mHz
One 38.6 mHz CB band, 27.5 - 28 mHz

Please contact me off the list.

Al, n7ioh

3146. L7 AMP

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-25 01:22:21 UTC
From: Bob AD5VJ
Topic: 3146 Message: 3146

Got the L-7 amp wrkg wid my TS-820S AND IT IS FANTASTIC. Lots of unsolicited fb reports.

Has anyone used a L-7 wid a Yaesu ft-757gxii, I am trying to determine if I need a relay keying circuit. The ft says it uses a 150v transistor at 1.5a dc I can't find the voltage and amp requirements in the L-7 manual.

73
Bob AD5VJ

[Non-text portions of this message have been removed]

3147. Re: [DrakeRadio] L7 AMP

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-25 01:38:07 UTC
From: Garey Barrell
Topic: 3146 Message: 3147

The relay operates on about 30V DC, and ~60 mA.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Bob AD5VJ wrote:
> Got the L-7 amp wrkg wid my TS-820S AND IT IS FANTASTIC. Lots of unsolicited
> fb reports.
>
> Has anyone used a L-7 wid a Yaesu ft-757gxii, I am trying to determine if I
> need a relay keying circuit. The ft says it uses a 150v transistor at 1.5a
> dc I can't find the voltage and amp requirements in the L-7 manual.
>
> 73
> Bob AD5VJ
>
>

3148. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-25 14:56:18 UTC
From: jb
Topic: 3140 Message: 3148

It may be a bit costly but you could screen print a copy of an original dial on to a new piece of plastic. Have heard of those restoring the copper frames using that process to replace the labels. The pic, of course, would have to be from directly overhead to avoid distortion and may need some scaling once you got it. But I
think it very possible.

Someone here may have one apart to make a good pic for you. Or, just maybe, Drake might happen to have a copy of that template...ok, probably not there but stranger things have happened.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Not really. A scan of a good dial printed on a transparent label and
> stuck on one of the clear CD pieces at the bottom and top of every stack
> of CDs might could be made to work. Otherwise one from a parts donor.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> captcurt2000 wrote:
> > Good Morning:
> >
> > Is there a fix for a TR3 freq dial that has gone completely dark brown?
> >
> > Curt
> > KU8L
> >
> >
>

3149. Re: [DrakeRadio] Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-25 23:07:02 UTC
From: Jim Shorney
Topic: 3140 Message: 3149

On Mon, 25 Jan 2010 14:56:18 -0000, jb wrote:

>It may be a bit costly but you could screen print a copy of an original dial on to a new piece of plastic.

It might be worthwile to contact a few Lexan suppliers and see how much it
would cost to stamp out a bunch of disks of the appropriate size.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3150. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-26 03:15:22 UTC
From: captcurt2000
Topic: 3140 Message: 3150

Yep..I have been looking. They dont stamp that stuff to.. they are generally cast or molded and then machined perfect after that. Thin lexan sheet is pretty cheap and some time with a jig saw would get a dial. Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.

While I haven't measured one yet, the CD dummy disks look to be nearly a perfect solution unless you needed alot of them.

Been looking for the suppliers of THOSE disks.

I'll keep everyone up to date on what I find.

Thanks to all.

Curt

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 25 Jan 2010 14:56:18 -0000, jb wrote:
>
> >It may be a bit costly but you could screen print a copy of an original dial on to a new piece of plastic.
>
>
> It might be worthwile to contact a few Lexan suppliers and see how much it
> would cost to stamp out a bunch of disks of the appropriate size.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3151. Re: [DrakeRadio] Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-26 04:17:54 UTC
From: Jim Shorney
Topic: 3140 Message: 3151

On Tue, 26 Jan 2010 03:15:22 -0000, captcurt2000 wrote:

>Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.
>

"Back in the day", many years ago I was making test fixture safety covers out of Lexan. I was able to bend it, cut it, drill it, etc., very much like sheet metal. It also seemed very resistant to light scratches, more so than Plex, and didn't shatter like Plex. Seemed like magical stuff at the time.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3152. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-26 13:48:51 UTC
From: captcurt2000
Topic: 3140 Message: 3152

Yes it is majic material for sure. Its compliant nature is what makes it so strong I think. We made offshore deck hatch covers from it and 1/4 inch of Lexan is immensely strong. You are correct about its formability too. works almost like hardwood. saw it, cut it,..you can use a router on it. Drills easy.

For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.

Its almost gummy or chewy compared to plexi which is quite brittle. Really notice it when drilling.

Good stuff...

Curt

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 26 Jan 2010 03:15:22 -0000, captcurt2000 wrote:
>
> >Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.
> >
>
>
> "Back in the day", many years ago I was making test fixture safety covers out
> of Lexan. I was able to bend it, cut it, drill it, etc., very much like sheet
> metal. It also seemed very resistant to light scratches, more so than Plex, and
> didn't shatter like Plex. Seemed like magical stuff at the time.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3153. Re: [DrakeRadio] Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-26 14:40:16 UTC
From: N8ABS, Paul
Topic: 3140 Message: 3153

----- Original Message -----
From: captcurt2000
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, January 26, 2010 8:48 AM
Subject: [DrakeRadio] Re: Fix for TR3 dial

Yes it is majic material for sure. Its compliant nature is what makes it so strong I think. We made offshore deck hatch covers from it and 1/4 inch of Lexan is immensely strong. You are correct about its formability too. works almost like hardwood. saw it, cut it,..you can use a router on it. Drills easy.

For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.

Its almost gummy or chewy compared to plexi which is quite brittle. Really notice it when drilling.

Good stuff...

Curt

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 26 Jan 2010 03:15:22 -0000, captcurt2000 wrote:
>
> >Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.
> >
>
>
> "Back in the day", many years ago I was making test fixture safety covers out
> of Lexan. I was able to bend it, cut it, drill it, etc., very much like sheet
> metal. It also seemed very resistant to light scratches, more so than Plex, and
> didn't shatter like Plex. Seemed like magical stuff at the time.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

[Non-text portions of this message have been removed]

3154. Re: Crystals for sale or trade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-26 21:50:16 UTC
From: ljh6789
Topic: 3145 Message: 3154

--- In DrakeRadio@yahoogroups.com, "de_n7ioh" <mebareit@...> wrote:
>
> I have the following extra crystals that I do not need for sale or trade. I am asking $15 each plus shipping from, Payson, Arizona, 85541. I am in need of two 12.6 mHz crystals for the 160 meter band. One 29.1 mHz crystal and one 35.6 mHz crystal for the 17 and 12 meter bands.
>
> For sale or trade:
> One 25.1 mHz 20 meter band
> One 32.1 mHz 15 meter band
> Two 39.6 mHz 10 meter band, 28.5 - 29 mHz
> One 38.1 mHz CB band, 27 - 27.5 mHz
> One 38.6 mHz CB band, 27.5 - 28 mHz
>
> Please contact me off the list.
>
> Al, n7ioh
>
I'll take that 38.1 crystal for my newly realigned R4c if it is still available. paypal ok?

Lee, kc9rfl

3155. Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 01:28:15 UTC
From: Joe
Topic: 3155 Message: 3155

Much too my surprise, one of the nicest Drake B series twins I have seen in many a year, was just given to me. (As well as the speaker and AC-3 power supply and all cables and original manuals!) It almost looks like it just came out of Joe's Ham Radio Sales, 35 years ago!

I say, 'almost' as the copper is no longer bright 'copper', rather, it has taken on a very golden patina of aged varnish! There isn't one speck of copper blight on either piece....just gorgeous! How was I so lucky?!!! Perhaps I will snap some images and put them in the photo section.......

OK, to my question....Hmmmmm...ya know...before I ask...think I will go peruse the files section...was going to ask how to add 17 meters....but...the info may already be posted so a question would be un-needed...

Joe Wolfe
WA6RKN
Reno, Nevada

3156. Re: [DrakeRadio] Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 01:50:17 UTC
From: Jim Shorney
Topic: 3155 Message: 3156

On Tue, 26 Jan 2010 17:28:15 -0800, Joe wrote:

>was going to ask how to add 17
>meters....but...the info may already be posted so a question would be
>un-needed...

The answer to your question is actually in the manuals. :) Congrats on a great score on those Drakes. Get them on the air!

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3157. Re: [DrakeRadio] Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 02:07:00 UTC
From: Joe
Topic: 3155 Message: 3157

B5 fan, eh wot?

Me too.

Joe
WA6RKN

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Newly Acquired TX4-B and R4-B

> http://incolor.inetnebr.com/jshorney

3158. Re: [DrakeRadio] Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 02:19:16 UTC
From: Jim Shorney
Topic: 3140 Message: 3158

On Tue, 26 Jan 2010 13:48:51 -0000, captcurt2000 wrote:

>For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.

I have been told by the gurus that the original clear dial disks in C-line (and 7-line, by implication) are Lexan. It works fine in that application, and light surface scratches don't seem to be a problem. In fact, when I've had 7-line PTOs out, I didn't note a tendency to scratch easily at all. Not that I was trying to scratch them, mind you.... :) Maybe it's a different material after all. I did abuse one dial for quite a while trying to polish out a white chemical splotch with a Dremel and a buffing wheel. Finally got it out, did not note any signifigant scratching from handling afterwards.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3159. Re: [DrakeRadio] Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 02:30:11 UTC
From: Jim Shorney
Topic: 3155 Message: 3159

The avalanche has begun, it is too late for the pebbles to vote...

On Tue, 26 Jan 2010 18:07:00 -0800, Joe wrote:

>B5 fan, eh wot?
>
>Me too.
>
>Joe

--

"It's an Earth food. They are called Swedish meatballs! It's a strange thing, but every sentient race has its own version of these Swedish meatballs! I suspect it's one of those great universal mysteries which will either never be explained, or which would drive you mad if you ever learned the truth!" - G'Kar, Babylon 5

3160. Re: [DrakeRadio] Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 02:31:52 UTC
From: LEE BAHR
Topic: 3140 Message: 3160

I've got one TR-4 around here I got from someone with a dark brown section of dial too. I am sure it got that way setting for a long time in one spot and exposed to the sun. It is really dark brown. Good news is it is not my only Drake radio. I suspect the brown spot cannot be removed from the old dial.

The way I look at it, the only fix is to replace the dial from a donar radio, or spend big bucks and have a new dial made , or live with the problem. The only other option is to wait and see if anyone steps up to the plate and has them remanufactured. I know someone has a nice fix for Heathkit drum dials. They cut a tube to length and then applied a clear dial film with black lettering over the new plastic drum. This could be done for Drake flat dials too. It's just more then I want to deal with.

Lee, w0vt

[Non-text portions of this message have been removed]

3161. Re: Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 15:02:22 UTC
From: captcurt2000
Topic: 3155 Message: 3161

Jeez...I gotta start hangin around a nicer crowd!!

Nice!

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> Much too my surprise, one of the nicest Drake B series twins I have seen in
> many a year, was just given to me. (As well as the speaker and AC-3 power
> supply and all cables and original manuals!) It almost looks like it just
> came out of Joe's Ham Radio Sales, 35 years ago!
>
> I say, 'almost' as the copper is no longer bright 'copper', rather, it has
> taken on a very golden patina of aged varnish! There isn't one speck of
> copper blight on either piece....just gorgeous! How was I so lucky?!!!
> Perhaps I will snap some images and put them in the photo section.......
>
> OK, to my question....Hmmmmm...ya know...before I ask...think I will go
> peruse the files section...was going to ask how to add 17
> meters....but...the info may already be posted so a question would be
> un-needed...
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

3162. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-27 14:59:52 UTC
From: captcurt2000
Topic: 3140 Message: 3162

I never handled mine long enough to get a feel for whether it was Lexan or not.. I would be surprised if it were since I have never seen lexan turn broun from the Sun..Like I said, we used it for port windows and hatch cover lights on boats.

The good news is that like you said Jim, small scratches kind of disappear when the dial is seen in situ. Looking thru it against a white/blue background, they just don't show up. I always use a mild dish washing detergent and a soft dish cloth to wash and then just dab dry with another soft towel...no paper towels.

I'm sure there isn't enough of a market for these to tool up for all the different styles, but if I can assemble the samples for several, and find the project time, I will do the artwork and have the dry transfer photo internegative created--this will mean I could supply them, one at a time, but for a reasonable cost.

When I get started, I might ask to borrow a couple of dials if I don't have them..broken or brown ones wud be ok. But I have LAte ser style T-4, early and late TR-3, R and T 4 A and B. I will want the negative to include as many styles as I can get on a large sheet.

Curt

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 26 Jan 2010 13:48:51 -0000, captcurt2000 wrote:
>
> >For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.
>
>
> I have been told by the gurus that the original clear dial disks in C-line (and
> 7-line, by implication) are Lexan. It works fine in that application, and light
> surface scratches don't seem to be a problem. In fact, when I've had 7-line
> PTOs out, I didn't note a tendency to scratch easily at all. Not that I was
> trying to scratch them, mind you.... :) Maybe it's a different material after
> all. I did abuse one dial for quite a while trying to polish out a white
> chemical splotch with a Dremel and a buffing wheel. Finally got it out, did not
> note any signifigant scratching from handling afterwards.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C

> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3163. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 01:06:05 UTC
From: jb
Topic: 3140 Message: 3163

I have used lexan for tablesaw and router table parts. Great stuff there....but...I have never got it as warm as it will get in a radio. Could it warp while on edge with that heat, being that thin? I would think, initially, that something a bit harder may be better.

It was mentioned also that that may have been the original material. I wonder.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "N8ABS, Paul" <N8ABS@...> wrote:
>
>
> ----- Original Message -----
> From: captcurt2000
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, January 26, 2010 8:48 AM
> Subject: [DrakeRadio] Re: Fix for TR3 dial
>
>
>
> Yes it is majic material for sure. Its compliant nature is what makes it so strong I think. We made offshore deck hatch covers from it and 1/4 inch of Lexan is immensely strong. You are correct about its formability too. works almost like hardwood. saw it, cut it,..you can use a router on it. Drills easy.
>
>
> For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.
>
> Its almost gummy or chewy compared to plexi which is quite brittle. Really notice it when drilling.
>
> Good stuff...
>
> Curt
>
> --- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@> wrote:
> >
> > On Tue, 26 Jan 2010 03:15:22 -0000, captcurt2000 wrote:
> >
> > >Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.

> > >
> >
> >
> > "Back in the day", many years ago I was making test fixture safety covers out
> > of Lexan. I was able to bend it, cut it, drill it, etc., very much like sheet
> > metal. It also seemed very resistant to light scratches, more so than Plex, and
> > didn't shatter like Plex. Seemed like magical stuff at the time.
> >
> > 73
> >
> > -Jim
> >
> > --
> > Ham Radio NU0C
> > Lincoln, Nebraska, U.S.S.A.
> > TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!
> >
> > "Give a man a URL, and he will learn for an hour; teach him to Google, and he will
learn for a lifetime."
> >
> > HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> > http://radiojim.exofire.net
> > http://incolor.inetnebr.com/jshorney
> > http://www.nebraskaghosts.org
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3164. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 02:25:16 UTC
From: captcurt2000
Topic: 3140 Message: 3164

I think it would be fine temperature wise. They make DVDs and CDs out of it and they get pretty hot when being burned.

Curt

--- In DrakeRadio@yahoogroups.com, "jb" <xjjb4x4@...> wrote:
>
> I have used lexan for tablesaw and router table parts. Great stuff there....but...I have never got it as warm as it will get in a radio. Could it warp while on edge with that heat, being that thin? I would think, initially, that something a bit harder may be better.
>
> It was mentioned also that that may have been the original material. I wonder.
>
> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, "N8ABS, Paul" <N8ABS@> wrote:
> >
> >
> > ----- Original Message -----
> > From: captcurt2000
> > To: DrakeRadio@yahoogroups.com
> > Sent: Tuesday, January 26, 2010 8:48 AM
> > Subject: [DrakeRadio] Re: Fix for TR3 dial
> >
> >
> >
> > Yes it is majic material for sure. Its compliant nature is what makes it so strong I think. We made offshore deck hatch covers from it and 1/4 inch of Lexan is immensely strong. You are correct about its formability too. works almost like hardwood. saw it, cut it,..you can use a router on it. Drills easy.
> >
> >
> > For a dial that was clear, if you left the protective paper on it, and were careful, it would be fine. But look at how the surface of a CD gets easily scratched if handled..that is lexan. Maybe not quantum worse than plexi, but it is softer so even a paper towel will put micro scratches in it it.
> >
> > Its almost gummy or chewy compared to plexi which is quite brittle. Really notice it when drilling.
> >
> > Good stuff...
> >

> > Curt
> >
> > --- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@> wrote:
> > >
> > > On Tue, 26 Jan 2010 03:15:22 -0000, captcurt2000 wrote:
> > >
> > > >Lexan (Polycarbonate) is very soft however and it is really difficult to work with without scratching it.
> > > >
> > >
> > >
> > > "Back in the day", many years ago I was making test fixture safety covers out
> > > of Lexan. I was able to bend it, cut it, drill it, etc., very much like sheet
> > > metal. It also seemed very resistant to light scratches, more so than Plex, and
> > > didn't shatter like Plex. Seemed like magical stuff at the time.
> > >
> > > 73
> > >
> > > -Jim
> > >
> > > --
> > > Ham Radio NU0C
> > > Lincoln, Nebraska, U.S.S.A.
> > > TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
> > >
> > > "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
> > >
> > > HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> > > http://radiojim.exofire.net
> > > http://incolor.inetnebr.com/jshorney
> > > http://www.nebraskaghosts.org
> > >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

3165. Re: Newly Acquired TX4-B and R4-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 15:37:14 UTC
From: ab4cz
Topic: 3155 Message: 3165

was going to ask how to add 17
> > meters....but...the info may already be posted so a question would be
> > un-needed...
> >
> > Joe Wolfe
> > WA6RKN
> > Reno, Nevada

Check out AF4K's web site for Drake crystals. He packages modern crystals in used HC6/u holders. See the list of Drake compatible crystals here:
http://www.af4k.com/hc6u_crystals.htm

Look in your manual for the appropriate crystal for the 17M band. I bought crystals from Brian for 160, 30, 17, 12, and the bottom 500Khz of 10M. All work fine.

Jim
AB4CZ

3166. Drake 1-A Receiver Alignment.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 16:12:35 UTC
From: w1fued@sbcglobal.net
Topic: 3166 Message: 3166

Hi Does anyone have experience with Drake 1-A receiver alignment?

I have tried to align it as per the book and worked well except for the aligment of the 2.9-3.5 overcoupling transformer.
Following the steps with a signal generator at 3.2 and dial 3.8, I am unable to see the peak and null of the t-1 transformer as described.
The transformer appears to be ok as adjusting it brings up one band edge, but then fouls up the other end. I know this adjustment is not so coarse as movement of the slugs changes the edges dramatically.

Does any one have any ideas or suggestions?
Help would be aprreciated.
Thanks,
Ed
(1-A, 2-A, 2-B, 2-C,R4, R4A, R4B, R4C, SPR4, and lots of other stuff.)

3167. Re: Fix for TR3 dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 16:34:30 UTC
From: w1fued@sbcglobal.net
Topic: 3140 Message: 3167

HI KURT,

I HAVE ONE HERE FROM A JUNKER, BRIGHT WHITE DIAL. ALSO THE CLEAR WINDOW LOOKS GOOD.

ED

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Good Morning:
>
> Is there a fix for a TR3 freq dial that has gone completely dark brown?
>
> Curt
> KU8L
>

3168. Re: TR-4C Volume/ RF Gain pot needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 16:41:01 UTC
From: w1fued@sbcglobal.net
Topic: 3080 Message: 3168

HI PAUL,
i HAVE ONE HERE FROM A TR-3, LOOKS OK, BUT NOT SURE IF IT THE SAME ASTR4

--- In DrakeRadio@yahoogroups.com, "lonelyone_64109" <lonelyone_64109@...> wrote:
>
> I am looking for a replacement volume/RF gain/power switch potentiometer for my TR-4C. The volume control will not reduce the sound down to a low level (the pot seems to have excessive "play" in the fully counter-clockwise position.The RF gain pot and power switch work fine. Does anyone have one that needs a good home or knows of a company where I can get a replacement? Are both pots audio taper or is the volume control an audio taper and the RF one a linear taper?
>
> Paul WB0CJB
>

3169. Re: [DrakeRadio] Re: TR-4C Volume/ RF Gain pot needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-28 17:00:47 UTC
From: Garey Barrell
Topic: 3080 Message: 3169

They are the same. 500k Audio taper for AF GAIN and 10k Linear taper
for RF GAIN.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
>
> HI PAUL,
> i HAVE ONE HERE FROM A TR-3, LOOKS OK, BUT NOT SURE IF IT THE SAME ASTR4
>
> --- In DrakeRadio@yahoogroups.com, "lonelyone_64109"<lonelyone_64109@...> wrote:
>
>> I am looking for a replacement volume/RF gain/power switch potentiometer for my TR-4C. The volume control will not reduce the sound down to a low level (the pot seems to have excessive "play" in the fully counter-clockwise position.The RF gain pot and power switch work fine. Does anyone have one that needs a good home or knows of a company where I can get a replacement? Are both pots audio taper or is the volume control an audio taper and the RF one a linear taper?
>>
>> Paul WB0CJB
>>
>>
>

3170. L-4B Parts Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 14:24:48 UTC
From: David
Topic: 3170 Message: 3170

Hi,
Does anyone have an L-4B parts listing? I'm particular, I'm interested in findind a replacement for the ALC/Standby pot/switch. Mine appears to be audio taper and is kinda touchy toward the top end. I've compensated by turning back my TR-7 to about 90w out, but I'd rather set it back up where it should be and be able to adjust it better.

I had a parts list at one time, but can't find it.
Thanks,
David
Wd9cmd

3171. Re: [DrakeRadio] L-4B Parts Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 15:15:37 UTC
From: Garey Barrell
Topic: 3170 Message: 3171

David -

That's another of those "unobtanium" parts. Many have been destroyed by the failure of R11 in the power supply, which puts +2500V across the pot element.!!

IF I had a bad one, I'd replace it with a linear 500k pot with a 120k resistor across the element. The result is a 100k resistor with the pot wiper at the top, (500k in parallel with 120k), and at half rotation it would be 80k. At 3/4 rotation it would be still be 62k. A 500k pot with an audio taper would be an interesting experiment as the two "tapers" would be opposing each other!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

David wrote:
> Hi,
> Does anyone have an L-4B parts listing? I'm particular, I'm interested in findind a replacement for the ALC/Standby pot/switch. Mine appears to be audio taper and is kinda touchy toward the top end. I've compensated by turning back my TR-7 to about 90w out, but I'd rather set it back up where it should be and be able to adjust it better.
>
> I had a parts list at one time, but can't find it.
> Thanks,
> David
> Wd9cmd
>
>
>

3172. Re: Drake 1-A Receiver Alignment.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 17:50:29 UTC
From: w1fued@sbcglobal.net
Topic: 3166 Message: 3172

Well found my problem, I was using a alligator jumper, which was adding inductence, soldered in a short piece of wire and was able to tune the overcoupler!

The receiver is now working fine....maybe not as sensitive or selective as the k3, but a lot more pleasant to listen to on 75 or 40!

Ed

--- In DrakeRadio@yahoogroups.com, "w1fued@..." <w1fued@...> wrote:
>
> Hi Does anyone have experience with Drake 1-A receiver alignment?
>
> I have tried to align it as per the book and worked well except for the aligment of the 2.9-3.5 overcoupling transformer.
> Following the steps with a signal generator at 3.2 and dial 3.8, I am unable to see the peak and null of the t-1 transformer as described.
> The transformer appears to be ok as adjusting it brings up one band edge, but then fouls up the other end. I know this adjustment is not so coarse as movement of the slugs changes the edges dramatically.
>
> Does any one have any ideas or suggestions?
> Help would be aprreciated.
> Thanks,
> Ed
> (1-A, 2-A, 2-B, 2-C,R4, R4A, R4B, R4C, SPR4, and lots of other stuff.)
>

3173. RE: [DrakeRadio] L-4B Parts Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 17:56:50 UTC
From: Walter Milton
Topic: 3170 Message: 3173

Dave,

I think I have a pars list with my manual at home. I will look when I get home this evening. If so I will scan it and make a pdf file. Where can I place it so others may make use of it if needed?

Walt, KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of David
Sent: Friday, January 29, 2010 9:25 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] L-4B Parts Info

Hi,
Does anyone have an L-4B parts listing? I'm particular, I'm interested in findind a replacement for the ALC/Standby pot/switch. Mine appears to be audio taper and is kinda touchy toward the top end. I've compensated by turning back my TR-7 to about 90w out, but I'd rather set it back up where it should be and be able to adjust it better.

I had a parts list at one time, but can't find it.
Thanks,
David
Wd9cmd

[Non-text portions of this message have been removed]

3174. TR-4 needs help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 18:26:42 UTC
From: q2audio@rocketmail.com
Topic: 3174 Message: 3174

Hi,

I have a TR-4 that seems to be out of alignment (doesn't seem to receive much of anything besides AM), possibly a failed part in the receive section? I bought it used, don't know the history but it looks pretty clean. I have rebuilt the power supply with a "kit" (replaced the bias pot as well, rebiased finals per the manual). I am an electronics tech with 17 years of experience but not with RF or radio so this is a new adventure for me.

If anyone has the patience to help me out, please email me directly.

Thank you and 73,

Tim
KD8FIH

3175. Re: [DrakeRadio] TR-4 needs help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-29 21:16:31 UTC
From: Garey Barrell
Topic: 3174 Message: 3175

Tim -

Receiving only AM would indicate a problem with the BFO (Beat Frequency Oscillator). Depending upon the s/n of your TR-4, it might have a 6GX6 tube at V16, which generates the BFO signal.

There were eight (8) versions of the TR-4, with various changes. The 6GX6 was used in all, so it would be the first suspect.

What test equipment do you have available?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

q2audio@... wrote:
> Hi,
>
> I have a TR-4 that seems to be out of alignment (doesn't seem to receive much of anything besides AM), possibly a failed part in the receive section? I bought it used, don't know the history but it looks pretty clean. I have rebuilt the power supply with a "kit" (replaced the bias pot as well, rebiased finals per the manual). I am an electronics tech with 17 years of experience but not with RF or radio so this is a new adventure for me.
>
> If anyone has the patience to help me out, please email me directly.
>
> Thank you and 73,
>
> Tim
> KD8FIH
>
>
>

3176. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-30 00:45:32 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 3176

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /L-4B Parts List.pdf
Uploaded by : walt512 <wmilton@...>
Description : L-4B Parts List

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/L-4B%20Parts%20List.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

walt512 <wmilton@...>

3177. Re: L-4B Parts Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-30 20:28:21 UTC
From: David & Chris Drake
Topic: 3170 Message: 3177

Thanks Garey.
Well mine still works, I just don't think it works as it should......and as long as the TR7 is dialed down, it should be fine. I also use my Omni VI with it (I have the soft key board in the amp), and of course can adjust the rig output. Never used the TR4C with the amp, but if I did, I think it would work well enough to use, or I could just "load it lighter" as one drake service memo suggested. My supply has had all the updates and a higher wattage R-11....I think at your suggestion...sometime in the past !!

I'm kinda gentle with my L-4B and keep it down around 500 on the plate when tuning, either using the ALC control or the Omni VI output adjust.

I've been thinking about building a three rig switch for the two drakes and the TT. It would need to switch the ALC lines on the two drakes, as well as the key line. Then the Omni is just the key line. Well....its on my bucket list!! Hi Hi.

73's David

[Non-text portions of this message have been removed]

3178. Re: TR-4 needs help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-31 06:17:03 UTC
From: q2audio@rocketmail.com
Topic: 3174 Message: 3178

Garey,

Thanks for the reply.

I have available here:

20MHz O-scope (100Mhz available at work)
Fluke 187 DMM
Radio Shack 22-306 freq counter (should be accurate enough)
A very basic Tenma RF gen - it might have AM modulation.
HP Audio oscillator
HP DC power supplies
200W 50 ohm dummy load

My TR-4 does have the 6GX6 at V16 per the schematic that I have. I did go through the schematic and I ordered all of the values of cathode resistors used in this radio. I know from my work on tube audio equipment that those tend to go bad slowly over time. I wanted to have them on hand in the event I needed them. I have a spare relay as well. I did check all of the tubes and they checked O.K.

Tim

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Tim -
>
> Receiving only AM would indicate a problem with the BFO (Beat Frequency
> Oscillator). Depending upon the s/n of your TR-4, it might have a 6GX6
> tube at V16, which generates the BFO signal.
>
> There were eight (8) versions of the TR-4, with various changes. The
> 6GX6 was used in all, so it would be the first suspect.
>
> What test equipment do you have available?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> q2audio@... wrote:
> > Hi,
> >
> > I have a TR-4 that seems to be out of alignment (doesn't seem to receive much of

anything besides AM), possibly a failed part in the receive section? I bought it used, don't know the history but it looks pretty clean. I have rebuilt the power supply with a "kit" (replaced the bias pot as well, rebiased finals per the manual). I am an electronics tech with 17 years of experience but not with RF or radio so this is a new adventure for me.
> >
> > If anyone has the patience to help me out, please email me directly.
> >
> > Thank you and 73,
> >
> > Tim
> > KD8FIH
> >
> >
> >
>

3179. Orlando FL Hamcation Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-01-31 14:13:53 UTC
From: Ken Simpson, W8EK
Topic: 3179 Message: 3179

Orlando FL Hamcation Information:

The Orlando Hamcation is less than two weeks away. It will be held from February 12 thru February 14, but much of the activity starts on Thursday, February 11, when most of the tailgaters set up. If you have not made your plans to attend, you need to do so now. Florida is the place to be in February!

Info can be found at
http://hamcation.com/default.html
There is a lot of information at this web site, so be certain to check all of the special areas.

At the present time, there are a few tables still available in the swap building. All of the wall spaces and end caps have been taken. If you want more than one table together, get your reservation in NOW. Having a table inside the building, instead of outside in the tailgate area, protects you (and your equipment) from the weather, and only costs $10 more for the entire weekend. Please e-mail hamcation@... to make reservations or get more information.

Everyone knows that there are many other activities in the central Florida area, so be certain to bring the XYL. Hamcation will also have YL activities, and of course many are now hams, so will enjoy Hamcation as well. The bottom line is "Bring the entire family."

Advance registrations are running considerably ahead of last year, so this promises to be another large (10,000 plus hams) hamfest. To put it another way, don't stay home because you think attendance might be down due to the economy. It does not look that way.

See you there!

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

3180. R4B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-02 03:44:07 UTC
From: Joe
Topic: 3180 Message: 3180

Is any one here parting out an R4B? I need a faceplate..don't need knobs, meters, etc. Just the faceplate.

Email: WA5RKN@...

Thanks!

Joe Wolfe
Reno, Nevada

3181. Re: [DrakeRadio] R4B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-02 05:37:41 UTC
From: Al
Topic: 3180 Message: 3181

Joe try this guy, he has an excellent reputation.
http://www.4cfrontpanels.com/

Al, n7ioh

Life is tough, it's tougher if you are stupid.

To error is human, to forgive is against company policy.

--- On Mon, 2/1/10, Joe <WA6RKN@...> wrote:

From: Joe <WA6RKN@...>
Subject: [DrakeRadio] R4B parts
To: DrakeRadio@yahoogroups.com
Date: Monday, February 1, 2010, 8:44 PM

Is any one here parting out an R4B? I need a faceplate..don' t need knobs,

meters, etc. Just the faceplate.

Email: WA5RKN@gmail. com

Thanks!

Joe Wolfe

Reno, Nevada

[Non-text portions of this message have been removed]

3182. Re: [DrakeRadio] R4B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-02 08:04:21 UTC
From: Joe
Topic: 3180 Message: 3182

Perfect! Thank you.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Al" <mebareit@...>
Subject: Re: [DrakeRadio] R4B parts

Joe try this guy, he has an excellent reputation.
http://www.4cfrontpanels.com/

Al, n7ioh

3183. TR-3 meter action

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-06 00:32:56 UTC
From: captcurt2000
Topic: 3183 Message: 3183

For those with experience using a TR3..I have one here that shows wild meter bounce..like NO damping on the movement. Huge interaction between the two movements. They work fine steady state, but a normal s-8 CW signal for instance will get the s meter swinging from 0 to the right peg and will excite the ammeter to half scale swings also.

All else seems to be working..AGC appears to work.

The TR4 I have does not do this...it has the normal slight induced movement of the opposite meter and the S meter behaves like all the 4 line meters.

Is this a normal thing for the TR3?

Any ideas on where to start looking?

Thanks

Curt
KU8L

3184. R-4C junker wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-06 02:42:26 UTC
From: vk5abc
Topic: 3184 Message: 3184

Hello All
I am looking for a R-4C chassis which has the front end complete including the pto it does not have the power transformer etc
Tell what you have.

73 Lee

3185. R-4C manual etc

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-06 02:28:09 UTC
From: vk5abc
Topic: 3185 Message: 3185

Hello All
Is there anyone here with a manual for the first version of the R-4C or
has the receiver and can take some pictures of both sides of the chassis?
I have looked for the manual but they all seem to be the later version like 19000 onward.
If someone has a url that would be helpfull.

73 Lee

3186. TR-3 FULL COMPLEMENT OF TUBES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-06 02:55:32 UTC
From: Bob AD5VJ
Topic: 3186 Message: 3186

I have a complete set of working tubes for a Drake TR-3
85.00 plus shipping
PREFER PAYPAL
tnx fer looking
Bob AD5VJ

[Non-text portions of this message have been removed]

3187. Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-07 15:11:41 UTC
From: captcurt2000
Topic: 3187 Message: 3187

Can't seem to upload pix.

two pictures both less than 1Mb...tried multiple times..showed the progress bar but got the error yield sign.

Any hints?

3188. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-07 20:06:29 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3188

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3189. Re: [DrakeRadio] Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 03:59:39 UTC
From: Richard Knoppow
Topic: 3187 Message: 3189

----- Original Message -----
From: "captcurt2000" <captcurt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 07, 2010 7:11 AM
Subject: [DrakeRadio] Picture uploading

> Can't seem to upload pix.
>
> two pictures both less than 1Mb...tried multiple
> times..showed the progress bar but got the error yield
> sign.
>
> Any hints?
>
Many mailing lists block pictures or other large
attachments. The list owner could tell you if this one is
set that way. Both of the lists I administer block
attachments.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3190. Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 13:54:11 UTC
From: captcurt2000
Topic: 3187 Message: 3190

It wasn't an attachment Richard..

I went to the photo section of this group where the other photo's are. Wanted to post a couple of pix of a PTO internal I'm working on.

I'll try it again..it let me create an album..

Curt

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "captcurt2000" <captcurt@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, February 07, 2010 7:11 AM
> Subject: [DrakeRadio] Picture uploading
>
>
> > Can't seem to upload pix.
> >
> > two pictures both less than 1Mb...tried multiple
> > times..showed the progress bar but got the error yield
> > sign.
> >
> > Any hints?
> >
> Many mailing lists block pictures or other large
> attachments. The list owner could tell you if this one is
> set that way. Both of the lists I administer block
> attachments.
>
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3191. Re: [DrakeRadio] Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 17:01:25 UTC
From: Richard Knoppow
Topic: 3187 Message: 3191

----- Original Message -----
From: "captcurt2000" <captcurt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 08, 2010 5:54 AM
Subject: [DrakeRadio] Re: Picture uploading

> It wasn't an attachment Richard..
>
> I went to the photo section of this group where the other
> photo's are. Wanted to post a couple of pix of a PTO
> internal I'm working on.
>
> I'll try it again..it let me create an album..
>
> Curt
>

Well, I am puzzled by what you were trying to do. If you posted just a link to a site with the pictures it should have come through. If you tried to post an actual binary file (jpg or similar) to the list my bet is that it was blocked by the list settings. An attachment is anything in an e-mail that is not plain text. While formatted test is technically not an attachment it is also blocked by some lists. The rules of the list should tell you if binaries can be sent to it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3192. Re: [DrakeRadio] Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 17:13:56 UTC
From: Dale Parfitt
Topic: 3187 Message: 3192

>
Well, I am puzzled by what you were trying to do. If
you posted just a link to a site with the pictures it should
have come through. If you tried to post an actual binary
file (jpg or similar) to the list my bet is that it was
blocked by the list settings. An attachment is anything in
an e-mail that is not plain text. While formatted test is
technically not an attachment it is also blocked by some
lists. The rules of the list should tell you if binaries can
be sent to it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

I believe he is simply trying to add some photos to the PHOTO section of the Drake Yahoo Group.

Dale W4OP

[Non-text portions of this message have been removed]

3193. Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 17:41:04 UTC
From: captcurt2000
Topic: 3187 Message: 3193

Yep..thats it. I guess Richard might only see these messages via the email feature.

Curt

--- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
> >
> Well, I am puzzled by what you were trying to do. If
> you posted just a link to a site with the pictures it should
> have come through. If you tried to post an actual binary
> file (jpg or similar) to the list my bet is that it was
> blocked by the list settings. An attachment is anything in
> an e-mail that is not plain text. While formatted test is
> technically not an attachment it is also blocked by some
> lists. The rules of the list should tell you if binaries can
> be sent to it.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
> I believe he is simply trying to add some photos to the PHOTO section of the Drake Yahoo Group.
>
> Dale W4OP
>
> [Non-text portions of this message have been removed]
>

3194. Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 18:02:34 UTC
From: captcurt2000
Topic: 3187 Message: 3194

OK..it worked this morning when I tried it. Must've been one of those 'puter thangs.

Thanks

Curt

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Can't seem to upload pix.
>
> two pictures both less than 1Mb...tried multiple times..showed the progress bar but got the error yield sign.
>
> Any hints?
>

3195. Original Drake or Not

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 18:01:16 UTC
From: captcurt2000
Topic: 3195 Message: 3195

OK. got the pix to load into the album Original Drake or not? in the photo section of the yahoo group.

This is the questionable trimmer on the PTO for a TR3 that would not get all the way up to 5.5MHz and would hit 4.9MHz at about 1/3 of the screw out from end.

Garey suggested that this mmight have been an attempt to put this radio on 11M and I am starting to think that is exactly right. This does not appear to be an original PTO. It is a tube type but has the larger can as a cover. And the PTO mounting holes have been adjusted.

Finally, and I just found this...there were 15pF of caps added to the 9MHz crystal. I'm still looking at that one. I need to check the freq of the 9MHz oscillator to see what it is doing.. Don't see how that could ever work knowing that the crystal filters are at 9MHz. The other goofy thing is that if you wanted to work on 11M I think you would need the PTO to go higher not lower.

Perhaps this is why it was collecting dust somewhere..a failed conversion job..serves them right if that's what they were doing.

I removed the screw and the jumper to the nut in the PTO and the PTO is now running the way it should..4.9 to 5.5 with a little at both ends to the stops.

The trimmer addition in the photos looks pretty good. the insulator stock has very nice, cleanly punched holes for the screws etc but is hand cut on the outsides so I'm still not sure.

Is this Drake or Not?

Cheers,

Curt

3196. Re: [DrakeRadio] Original Drake or Not

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 18:44:43 UTC
From: Garey Barrell
Topic: 3195 Message: 3196

Curt -

Nope, not Drake. I have to admit it's creative, but the PTO has four mounting screws, one in each corner.

Can't say I know what was being attempted, but it ain't stock!

The 9 MHz crystal may have drifted up in frequency with age, and the added caps were an attempt to pull it back down to 9.000 MHz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> OK. got the pix to load into the album Original Drake or not? in the photo section of the yahoo group.
>
> This is the questionable trimmer on the PTO for a TR3 that would not get all the way up to 5.5MHz and would hit 4.9MHz at about 1/3 of the screw out from end.
>
> Garey suggested that this mmight have been an attempt to put this radio on 11M and I am starting to think that is exactly right. This does not appear to be an original PTO. It is a tube type but has the larger can as a cover. And the PTO mounting holes have been adjusted.
>
> Finally, and I just found this...there were 15pF of caps added to the 9MHz crystal. I'm still looking at that one. I need to check the freq of the 9MHz oscillator to see what it is doing.. Don't see how that could ever work knowing that the crystal filters are at 9MHz. The other goofy thing is that if you wanted to work on 11M I think you would need the PTO to go higher not lower.
>
> Perhaps this is why it was collecting dust somewhere..a failed conversion job..serves them right if that's what they were doing.
>
> I removed the screw and the jumper to the nut in the PTO and the PTO is now running the way it should..4.9 to 5.5 with a little at both ends to the stops.
>
> The trimmer addition in the photos looks pretty good. the insulator stock has very nice, cleanly punched holes for the screws etc but is hand cut on the outsides so I'm still not sure.
>
> Is this Drake or Not?
>

> Cheers,
>
> Curt
>
>

3197. Re: [DrakeRadio] Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 20:59:49 UTC
From: Richard Knoppow
Topic: 3187 Message: 3197

----- Original Message -----
From: "captcurt2000" <captcurt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 08, 2010 9:41 AM
Subject: [DrakeRadio] Re: Picture uploading

> Yep..thats it. I guess Richard might only see these
> messages via the email feature.
>
> Curt

Correct, I get the message to the list via e-mail
rather than using the web site. See my previous post for an
appology.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3198. Re: [DrakeRadio] Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-08 20:58:22 UTC
From: Richard Knoppow
Topic: 3187 Message: 3198

----- Original Message -----
From: "Dale Parfitt" <parinc1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 08, 2010 9:13 AM
Subject: Re: [DrakeRadio] Re: Picture uploading

> >
> Well, I am puzzled by what you were trying to do. If
> you posted just a link to a site with the pictures it
> should
> have come through. If you tried to post an actual binary
> file (jpg or similar) to the list my bet is that it was
> blocked by the list settings. An attachment is anything in
> an e-mail that is not plain text. While formatted test is
> technically not an attachment it is also blocked by some
> lists. The rules of the list should tell you if binaries
> can
> be sent to it.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
> I believe he is simply trying to add some photos to the
> PHOTO section of the Drake Yahoo Group.
>
> Dale W4OP
>
If so my comments are irrelevant and I appologize for
confusing the issue.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3199. Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-09 02:09:17 UTC
From: floydsense
Topic: 3187 Message: 3199

It's been my experience that being able to upload photos to a Yahoo group (various groups) is a sometimes thing. Sort of like the Search feature that works most of the time. When I have a problem like that, I try again several hours later and it always works then.

73, K8AC

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Can't seem to upload pix.
>
> two pictures both less than 1Mb...tried multiple times..showed the progress bar but got the error yield sign.
>
> Any hints?
>

3200. Re: Picture uploading

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-09 03:53:35 UTC
From: captcurt2000
Topic: 3187 Message: 3200

Richard:

No Need at all for an apology..I appreciate all efforts to help. I was the one that was having a difficult time trying to explain what I was trying to do.

No issues here..

My regards

Curt

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "captcurt2000" <captcurt@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, February 08, 2010 9:41 AM
> Subject: [DrakeRadio] Re: Picture uploading
>
>
> > Yep..thats it. I guess Richard might only see these
> > messages via the email feature.
> >
> > Curt
>
> Correct, I get the message to the list via e-mail
> rather than using the web site. See my previous post for an
> appology.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3201. 4 LIne station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-09 14:46:37 UTC
From: ko1hqrp
Topic: 3201 Message: 3201

Hi all, Having progessed to the point where I have multiple stations in my house. I would like to add a R4/tx4 and accessories to my upstairs station. If anyone on the list has one they are looking to part with for a reasonable price please contact me.

Current Drakes
tr7a
l7
tr3

thanks all

John Ko1h @ cox.net

PS I have been checking the usual sites aka Epay, qth, qrz and have not found much lately.

73 de John ko1h

3202. Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-11 03:13:21 UTC
From: kf0hr
Topic: 3202 Message: 3202

Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
Thanks, Terry KF0HR in North Dakota

3203. Re: [DrakeRadio] Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-11 03:54:25 UTC
From: Garey Barrell
Topic: 3202 Message: 3203

Terry -

Check value and condition of R23, R24, R26, R30, R31 and R36. They sometimes crack "invisibly" making various resistance levels. Give each one a little tug or push as well. Less likely, but possible is C61.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
> Thanks, Terry KF0HR in North Dakota
>
>
>
>

3204. R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 01:33:43 UTC
From: randyinaura
Topic: 3204 Message: 3204

Hello to the group. I have a R-4A that works fine on 10-80m, but is dead on 160m. Any suggestions as to where I should start to troubleshoot this problem? Thanks in advance and.....

73 de K8HRO - Randy

3205. Re: [DrakeRadio] R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 01:37:39 UTC
From: Dale Parfitt
Topic: 3204 Message: 3205

----- Original Message -----
From: randyinaura
To: DrakeRadio@yahoogroups.com
Sent: Friday, February 12, 2010 8:33 PM
Subject: [DrakeRadio] R-4A Dead on 160m

Hello to the group. I have a R-4A that works fine on 10-80m, but is dead on 160m. Any suggestions as to where I should start to troubleshoot this problem? Thanks in advance and.....

73 de K8HRO - Randy

Do you have a 160M crystal installed in the crystal deck?
Dale W4OP

3206. Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 02:50:32 UTC
From: randyinaura
Topic: 3204 Message: 3206

Dale,

Someone once said that the only stupid question is the one not asked. That's true I suppose, except for my question. No, I don't have a 160m crystal. How dumb is that?

I've had this receiver for several years, but never worked on 160m. I use my Kenwood TS-520S for that. This evening, I just thought I'd do a comparison of the two rigs. That's when I discovered the R-4A was dead. After reading your answer, I looked at the manual and right there on page 3 it says, "80-10m ham bands are stock; others require crystals to be added". I guess I assumed that since 1.5-3.0Mc was one of the band switch positions, that I was good to go. RTFB they told us in the service. I should have listened.

Now I'm off to find the proper crystal for 160m. Thanks for your help. I'll be expecting my dummy-of-the-Month award in the mail shortly.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
> Do you have a 160M crystal installed in the crystal deck?
> Dale W4OP
>

3207. Re: [DrakeRadio] Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 04:49:56 UTC
From: Carl McLelland
Topic: 3204 Message: 3207

Randy,
Sorry, but unless you turn around and ask again next week why your dead on 160..... No Trophy!!

It takes a man to come forward and say..... "Oops!"..
Carl KF7GJO

----- Original Message -----
From: randyinaura
To: DrakeRadio@yahoogroups.com
Sent: Friday, February 12, 2010 6:50 PM
Subject: [DrakeRadio] Re: R-4A Dead on 160m

Dale,

Someone once said that the only stupid question is the one not asked. That's true I suppose, except for my question. No, I don't have a 160m crystal. How dumb is that?

I've had this receiver for several years, but never worked on 160m. I use my Kenwood TS-520S for that. This evening, I just thought I'd do a comparison of the two rigs. That's when I discovered the R-4A was dead. After reading your answer, I looked at the manual and right there on page 3 it says, "80-10m ham bands are stock; others require crystals to be added". I guess I assumed that since 1.5-3.0Mc was one of the band switch positions, that I was good to go. RTFB they told us in the service. I should have listened.

Now I'm off to find the proper crystal for 160m. Thanks for your help. I'll be expecting my dummy-of-the-Month award in the mail shortly.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
>
> Do you have a 160M crystal installed in the crystal deck?
> Dale W4OP
>

[Non-text portions of this message have been removed]

3208. Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 14:07:35 UTC
From: captcurt2000
Topic: 3204 Message: 3208

And only the center portion of 10 also..Need another crystal for 28-28.5

Curt

--- In DrakeRadio@yahoogroups.com, "randyinaura" <rfb13@...> wrote:
>
> Dale,
>
> Someone once said that the only stupid question is the one not asked. That's true I suppose, except for my question. No, I don't have a 160m crystal. How dumb is that?
>
> I've had this receiver for several years, but never worked on 160m. I use my Kenwood TS-520S for that. This evening, I just thought I'd do a comparison of the two rigs. That's when I discovered the R-4A was dead. After reading your answer, I looked at the manual and right there on page 3 it says, "80-10m ham bands are stock; others require crystals to be added". I guess I assumed that since 1.5-3.0Mc was one of the band switch positions, that I was good to go. RTFB they told us in the service. I should have listened.
>
> Now I'm off to find the proper crystal for 160m. Thanks for your help. I'll be expecting my dummy-of-the-Month award in the mail shortly.
>
> 73 de K8HRO - Randy
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@> wrote:
> >
> > Do you have a 160M crystal installed in the crystal deck?
> > Dale W4OP
> >
>

3209. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 14:30:27 UTC
From: kf0hr
Topic: 3202 Message: 3209

Garey,

Thanks for the tips to find the T4XB low output. Checked the parts you listed with all looking OK in line? I checked the voltage and resistance per manual. All look close. I did check the voltage when the tranmitter was putting out 100+ watts. Both voltage readings look same? I show same RF level at pin 7 of dirver 12BY7 tube as I do on the finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.

Lost on the LOW RF with 7 new inches of snow.
Terry KF0HR in North Dakota

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Terry -
>
> Check value and condition of R23, R24, R26, R30, R31 and R36. They
> sometimes crack "invisibly" making various resistance levels. Give each
> one a little tug or push as well. Less likely, but possible is C61.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
> > Thanks, Terry KF0HR in North Dakota
> >

> >
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> >
>

3210. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 15:21:26 UTC
From: Garey Barrell
Topic: 3202 Message: 3210

Terry -

OK. Well gotta start somewhere in the process of elimination! :-)

What happens to the plate current at both levels?

Have you tried swapping Final tubes?

What is the Final Screen voltage at "low power"?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Garey,
>
> Thanks for the tips to find the T4XB low output. Checked the parts you listed with all looking OK in line? I checked the voltage and resistance per manual. All look close. I did check the voltage when the tranmitter was putting out 100+ watts. Both voltage readings look same? I show same RF level at pin 7 of dirver 12BY7 tube as I do on the finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.
>
> Lost on the LOW RF with 7 new inches of snow.
> Terry KF0HR in North Dakota
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Terry -
>>
>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
>> sometimes crack "invisibly" making various resistance levels. Give each
>> one a little tug or push as well. Less likely, but possible is C61.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>

>>
>>
>> kf0hr wrote:
>>
>>> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
>>> Thanks, Terry KF0HR in North Dakota
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3211. Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 16:49:59 UTC
From: ab4cz
Topic: 3204 Message: 3211

--- In DrakeRadio@yahoogroups.com, "randyinaura" <rfb13@...> wrote:

> Now I'm off to find the proper crystal for 160m. Thanks for your help. I'll be expecting my dummy-of-the-Month award in the mail shortly.
>
> 73 de K8HRO - Randy

AF4K sells crystals for the Drake receivers. Look on his web site under the "HC6/U listings for Drake. You might consider getting crystals for 30M, 17M, 12M, and the bottom 500 Khz of 10m while you're at it. I've had good luck with Brian's crystals.

jim
ab4cz

3212. Re: [DrakeRadio] Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 17:35:56 UTC
From: Bill Frost
Topic: 3204 Message: 3212

Hello Randy,

If you still need a 12.6 Mhz crystal, I have for sale, $15.00. I also have a few other 4-line crystals if needed.

Tnx & 73, Bill

--- On Fri, 2/12/10, randyinaura <rfb13@...> wrote:

> From: randyinaura <rfb13@...>
> Subject: [DrakeRadio] Re: R-4A Dead on 160m
> To: DrakeRadio@yahoogroups.com
> Date: Friday, February 12, 2010, 9:50 PM
> Dale,
>
> Someone once said that the only stupid question is the one
> not asked. That's true I suppose, except for my
> question. No, I don't have a 160m crystal. How
> dumb is that?
>
> I've had this receiver for several years, but never worked
> on 160m. I use my Kenwood TS-520S for that. This
> evening, I just thought I'd do a comparison of the two
> rigs. That's when I discovered the R-4A was
> dead. After reading your answer, I looked at the
> manual and right there on page 3 it says, "80-10m ham bands
> are stock; others require crystals to be added". I
> guess I assumed that since 1.5-3.0Mc was one of the band
> switch positions, that I was good to go. RTFB they
> told us in the service. I should have listened.
>
> Now I'm off to find the proper crystal for 160m.
> Thanks for your help. I'll be expecting my
> dummy-of-the-Month award in the mail shortly.
>
> 73 de K8HRO - Randy
>
>
>
>
> --- In DrakeRadio@yahoogroups.com,
> "Dale Parfitt" <parinc1@...> wrote:
> >
> > Do you have a 160M crystal installed in the
> crystal deck?
> > Dale W4OP

> >
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>
> Yahoo! Groups Links
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>
>   DrakeRadio-fullfeatured@yahoogroups.com
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>
>

3213. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 17:41:36 UTC
From: kf0hr
Topic: 3202 Message: 3213

Garey,

My T4XB
Final tube
Rx Plate is 722 volts TX at 10 watts is 685 volts
Rx Pin3 is 149 volts TX is.39 volts
Rx screen is266 volts and drops to 245 volts in TX
idle Bios is .07
Plate current at 10 watts is .15 when I was TX at 100+ plate was over .3 amps.
Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
I have checked voltages against my T4X and different power supply with same results. Also tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped back to only 10 watts again.
This transmitter should put out 100watts. What is holding it back???

Thanks,

Terry KF0HR in North Dakota with a foot of new snow ..WOW

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Terry -
>
> OK. Well gotta start somewhere in the process of elimination! :-)
>
> What happens to the plate current at both levels?
>
> Have you tried swapping Final tubes?
>
> What is the Final Screen voltage at "low power"?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Garey,
> >
> > Thanks for the tips to find the T4XB low output. Checked the parts you listed with all looking OK in line? I checked the voltage and resistance per manual. All look close. I did check the voltage when the tranmitter was putting out 100+ watts. Both voltage readings look same? I show same RF level at pin 7 of dirver 12BY7 tube as I do on the finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to

the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.
> >
> > Lost on the LOW RF with 7 new inches of snow.
> > Terry KF0HR in North Dakota
> >
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> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Terry -
> >>
> >> Check value and condition of R23, R24, R26, R30, R31 and R36. They
> >> sometimes crack "invisibly" making various resistance levels. Give each
> >> one a little tug or push as well. Less likely, but possible is C61.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> kf0hr wrote:
> >>
> >>> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
> >>> Thanks, Terry KF0HR in North Dakota
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3214. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 18:25:06 UTC
From: Garey Barrell
Topic: 3202 Message: 3214

OK. Have you checked R32 and R33? It sounds like one of the Final tubes
is going 'out of circuit'. You're getting about 1/2 of normal output
current, and the Pi-Net is set to see the plate impedance of two tubes,
but only one is working. Check the voltage at both Pin 3s to see if they
are about the same.

350 mA is about normal for two tubes, or about 175 mA each. You should
see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
feedthrough C60.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Garey,
>
> My T4XB
> Final tube
> Rx Plate is 722 volts TX at 10 watts is 685 volts
> Rx Pin3 is 149 volts TX is.39 volts
> Rx screen is266 volts and drops to 245 volts in TX
> idle Bios is .07
> Plate current at 10 watts is .15 when I was TX at 100+ plate was over .3 amps.
> Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30
(same)
> I have checked voltages against my T4X and different power supply with same results. Also
tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped back to
only 10 watts again.
> This transmitter should put out 100watts. What is holding it back???
>
> Thanks,
>
> Terry KF0HR in North Dakota with a foot of new snow…..WOW
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Terry -
>>
>> OK. Well gotta start somewhere in the process of elimination! :-)
>>
>> What happens to the plate current at both levels?
>>

>> Have you tried swapping Final tubes?
>>
>> What is the Final Screen voltage at "low power"?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> kf0hr wrote:
>>
>>> Garey,
>>>
>>> Thanks for the tips to find the T4XB low output. Checked the parts you listed with all looking OK in line? I checked the voltage and resistance per manual. All look close. I did check the voltage when the tranmitter was putting out 100+ watts. Both voltage readings look same? I show same RF level at pin 7 of dirver 12BY7 tube as I do on the finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.
>>>
>>> Lost on the LOW RF with 7 new inches of snow.
>>> Terry KF0HR in North Dakota
>>>
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>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Terry -
>>>>
>>>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
>>>> sometimes crack "invisibly" making various resistance levels. Give each
>>>> one a little tug or push as well. Less likely, but possible is C61.
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
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>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>> kf0hr wrote:
>>>>
>>>>
>>>>> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting

unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
>>>>> Thanks, Terry KF0HR in North Dakota
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3215. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 18:35:59 UTC
From: kf0hr
Topic: 3202 Message: 3215

Just checked the voltage at both sides of R32 R33 Both are same with .6 and 1.8 volts on both tubes. Maybe I lost a tube, will try spare set of final tubes. Thanks...Terry KF0HR

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
> is going 'out of circuit'. You're getting about 1/2 of normal output
> current, and the Pi-Net is set to see the plate impedance of two tubes,
> but only one is working. Check the voltage at both Pin 3s to see if they
> are about the same.
>
> 350 mA is about normal for two tubes, or about 175 mA each. You should
> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
> feedthrough C60.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Garey,
> >
> > My T4XB
> > Final tube
> > Rx Plate is 722 volts TX at 10 watts is 685 volts
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> > idle Bios is .07
> > Plate current at 10 watts is .15 when I was TX at 100+ plate was over .3 amps.
> > Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
> > I have checked voltages against my T4X and different power supply with same results. Also tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped back to only 10 watts again.
> > This transmitter should put out 100watts. What is holding it back???
> >
> > Thanks,
> >
> > Terry KF0HR in North Dakota with a foot of new snow ..WOW
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >

> >> Terry -
> >>
> >> OK. Well gotta start somewhere in the process of elimination! :-)
> >>
> >> What happens to the plate current at both levels?
> >>
> >> Have you tried swapping Final tubes?
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> >> 73, Garey - K4OAH
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> >> kf0hr wrote:
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> >>> Garey,
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> >>> Thanks for the tips to find the T4XB low output. Checked the parts you listed with all looking OK in line? I checked the voltage and resistance per manual. All look close. I did check the voltage when the tranmitter was putting out 100+ watts. Both voltage readings look same? I show same RF level at pin 7 of dirver 12BY7 tube as I do on the finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.
> >>>
> >>> Lost on the LOW RF with 7 new inches of snow.
> >>> Terry KF0HR in North Dakota
> >>>
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> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>
> >>>
> >>> Terry -
> >>>
> >>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
> >>> sometimes crack "invisibly" making various resistance levels. Give each
> >>> one a little tug or push as well. Less likely, but possible is C61.
> >>>
> >>> 73, Garey - K4OAH
> >>> Glen Allen, VA
> >>>
> >>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>> <www.k4oah.com>
> >>>

> >>>>
> >>>> kf0hr wrote:
> >>>>
> >>>>
> >>>>> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been sitting unused for 15 years. I brought it up to see if it worked before cleaning and using Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin 2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
> >>>>> Thanks, Terry KF0HR in North Dakota
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3216. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 19:03:14 UTC
From: w5rkl
Topic: 3202 Message: 3216

I have a similar intermittent power output problem. It occurs on all bands.

If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.

I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.

You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.

Just a thought.

73s
Mike W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
> is going 'out of circuit'. You're getting about 1/2 of normal output
> current, and the Pi-Net is set to see the plate impedance of two tubes,
> but only one is working. Check the voltage at both Pin 3s to see if they
> are about the same.
>
> 350 mA is about normal for two tubes, or about 175 mA each. You should
> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
> feedthrough C60.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Garey,
> >
> > My T4XB
> > Final tube
> > Rx Plate is 722 volts TX at 10 watts is 685 volts
> > Rx Pin3 is 149 volts TX is.39 volts
> > Rx screen is266 volts and drops to 245 volts in TX

> > idle Bios is .07
> > Plate current at 10 watts is .15 when I was TX at 100+ plate was over .3 amps.
> > Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
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> > This transmitter should put out 100watts. What is holding it back???
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> > Thanks,
> >
> > Terry KF0HR in North Dakota with a foot of new snow ..WOW
> >
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> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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3217. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 19:27:20 UTC
From: captcurt2000
Topic: 3202 Message: 3217

OK..here is another question. He indicated he is seeing about 30V of RF drive..was that RMS from the RF probe?

I saw someone post that it only took 40-50V P-P to drive these rigs' finals but that seems like half of what I would guess.

If the Bias is sitting at (nominally) -60, it seem like it would take 120 P-P to get the finals to draw grid current and thus ALC??

I hav a couple of TR's and the good ones have over 100 P-P on the grids of finals measured directly with a scope on 80M. The measurement gets iffy above that due to probe loading--but this is a value that makes sense me..The TR that have low output all show in the neighborhood of 30-50V P-P there.

Am I missing something?

Thanks

Curt

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> are about the same.
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> 350 mA is about normal for two tubes, or about 175 mA each. You should
> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
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3218. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 19:43:40 UTC
From: kf0hr
Topic: 3202 Message: 3218

Mike,

The problem you have sounds a lot like my T4XB 100 to 10 watts output.
I have moved the tubes around but no luck to get the full power back.
I have been thinking about the AGC also???
Will let you know if I can ever find this problem.
All my voltages say the Final tubes should put out full power.
So I need to look at other areas maybe?

Thanks Terry KF0HR in North Dakota

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I have a similar intermittent power output problem. It occurs on all bands.
>
> If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.
>
> I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.
>
> You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.
>
> Just a thought.
>
> 73s
> Mike W5RKL
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > OK. Have you checked R32 and R33? It sounds like one of the Final tubes
> > is going 'out of circuit'. You're getting about 1/2 of normal output
> > current, and the Pi-Net is set to see the plate impedance of two tubes,
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> > are about the same.
> >
> > 350 mA is about normal for two tubes, or about 175 mA each. You should
> > see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
> > feedthrough C60.

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> > >> Terry -
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> > >> OK. Well gotta start somewhere in the process of elimination! :-)
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> > >> What happens to the plate current at both levels?
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3219. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 19:55:51 UTC
From: Garey Barrell
Topic: 3202 Message: 3219

Curt -

I think he is referring to an RF Probe, which typically measures an RMS value. Terry didn't specify a band, and ~45V RMS would be in the ballpark. I suspect loading from the probe is a factor here. I haven't specifically tried 80M, but on 40M a 10X probe shows 130V p-p, in TUNE with the GAIN set to just below ALC. With typical BIAS voltage around 60 - 65 volts that's what I would expect also!

But that is a good question Terry, what band are you making your measurements on? Is it the same on several bands?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

captcurt2000 wrote:
> OK..here is another question. He indicated he is seeing about 30V of RF drive..was that RMS from the RF probe?
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> I saw someone post that it only took 40-50V P-P to drive these rigs' finals but that seems like half of what I would guess.
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> If the Bias is sitting at (nominally) -60, it seem like it would take 120 P-P to get the finals to draw grid current and thus ALC??
>
> I hav a couple of TR's and the good ones have over 100 P-P on the grids of finals measured directly with a scope on 80M. The measurement gets iffy above that due to probe loading--but this is a value that makes sense me..The TR that have low output all show in the neighborhood of 30-50V P-P there.
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> Am I missing something?
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> Thanks
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> Curt
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>

3220. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 19:57:00 UTC
From: kf0hr
Topic: 3202 Message: 3220

Curt,
This is Terry in North Dakota witht the T4XB that is only at 10 watts output. The 20 to 30 volts is RMS with Heathkit RF probe so only for referace of RF. Something is holding my TX tokeep the finals from 100 watts. I checked my T4X with my RF probe to see what a working TX sees with my RF probe. It shows the same amount of RF getting to the finals with 100+ watts output.

Thanks, Terry KF0HR in ND

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> OK..here is another question. He indicated he is seeing about 30V of RF drive..was that RMS from the RF probe?
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> I saw someone post that it only took 40-50V P-P to drive these rigs' finals but that seems like half of what I would guess.
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> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

> > <www.k4oah.com>
> >
> >
> > kf0hr wrote:
> > > Garey,
> > >
> > > My T4XB
> > > Final tube
> > > Rx Plate is 722 volts TX at 10 watts is 685 volts
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> > > Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
> > > I have checked voltages against my T4X and different power supply with same results. Also tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped back to only 10 watts again.
> > > This transmitter should put out 100watts. What is holding it back???
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> > > Thanks,
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> > > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> > >> Terry -
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> > >> OK. Well gotta start somewhere in the process of elimination! :-)
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> > >>> Garey,
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finals. No loss to speak of? I do show less RF at the antenna jack. My thought is every thing up to the finals is working? I show same RF level on both my T4X and T4XB. I have checked so many time I forget where I am at in the testing HI HI Maybe change to the talking mode instead of trouble shooting. Maybe if I let it site for a couple days it will start to work again. I had to remove the covers again as I thought I had the T4XB ready for a QSO.
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> > >>>> sometimes crack "invisibly" making various resistance levels. Give each
> > >>>> one a little tug or push as well. Less likely, but possible is C61.
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> > >>>>> Thanks, Terry KF0HR in North Dakota
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3221. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 20:07:52 UTC
From: Garey Barrell
Topic: 3202 Message: 3221

Hi Mike -

Haven't heard from you in a while! I can see how V1 might be affected,
but I don't see V10 causing this kind of problem.... interesting.

R94 may be a 'common' part, if it were cracked or ? It's right at the
top of that board. Mounting screws for that board?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> I have a similar intermittent power output problem. It occurs on all bands.
>
> If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.
>
> I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.
>
> You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.
>
> Just a thought.
>
> 73s
> Mike W5RKL
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
>> is going 'out of circuit'. You're getting about 1/2 of normal output
>> current, and the Pi-Net is set to see the plate impedance of two tubes,
>> but only one is working. Check the voltage at both Pin 3s to see if they
>> are about the same.
>>
>> 350 mA is about normal for two tubes, or about 175 mA each. You should

>> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
>> feedthrough C60.
>>
>> 73, Garey - K4OAH
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>>> My T4XB
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>>> Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30
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Also tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped
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>>> Thanks,
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>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Terry -
>>>>
>>>> OK. Well gotta start somewhere in the process of elimination! :-)
>>>>
>>>> What happens to the plate current at both levels?
>>>>
>>>> Have you tried swapping Final tubes?
>>>>
>>>> What is the Final Screen voltage at "low power"?
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>>>>>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
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all voltages and ohmed out finals. All look close per manual, tried different final tubes known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is holding the transmitter finals from full power? One more problem is my TX relay closes and don't release all the time when I have the low 10 watts output?
>>>>>>> Thanks, Terry KF0HR in North Dakota
>

3222. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 20:14:00 UTC
From: kf0hr
Topic: 3202 Message: 3222

This is Terry. Just checked the T4XB on 80M for 25 volts RMS, 40M for 22 volts RMS, 20M for 18 volts RMS. The 10 watts output drops off some as I go up in Freq. I just hooked up my spare T4X and checked for drive at the finals with the RF Probe. It show 80M 50 volts RMS. So my T4XB has low drive. I don't know why this has changed? You know how it goes when you start checking so many things. Also maybe the transmitter is changing? Old test equipment? Now I need to back up again.I might not have enough drive to get 100+ watts. Time to start over and check everything again.
Thanks for the Help Terry KF0HR

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> I think he is referring to an RF Probe, which typically measures an RMS
> value. Terry didn't specify a band, and ~45V RMS would be in the
> ballpark. I suspect loading from the probe is a factor here. I haven't
> specifically tried 80M, but on 40M a 10X probe shows 130V p-p, in TUNE
> with the GAIN set to just below ALC. With typical BIAS voltage around 60
> - 65 volts that's what I would expect also!
>
> But that is a good question Terry, what band are you making your
> measurements on? Is it the same on several bands?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> captcurt2000 wrote:
> > OK..here is another question. He indicated he is seeing about 30V of RF drive..was that RMS from the RF probe?
> >
> > I saw someone post that it only took 40-50V P-P to drive these rigs' finals but that seems like half of what I would guess.
> >
> > If the Bias is sitting at (nominally) -60, it seem like it would take 120 P-P to get the finals to draw grid current and thus ALC??
> >
> > I hav a couple of TR's and the good ones have over 100 P-P on the grids of finals measured directly with a scope on 80M. The measurement gets iffy above that due to probe loading--but this is a value that makes sense me..The TR that have low output all show in the neighborhood of 30-50V P-P there.
> >
> > Am I missing something?

> >
> > Thanks
> >
> > Curt
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
> >> is going 'out of circuit'. You're getting about 1/2 of normal output
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> >>> Thanks,
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> >>> Terry KF0HR in North Dakota with a foot of new snow ..WOW
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> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >>>> Terry -

> >>>>
> >>>> OK. Well gotta start somewhere in the process of elimination! :-)
> >>>>
> >>>> What happens to the plate current at both levels?
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> >>>> Have you tried swapping Final tubes?
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> >>>>>>> Thanks, Terry KF0HR in North Dakota
> >
>

3223. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 20:18:58 UTC
From: Richard Knoppow
Topic: 3202 Message: 3223

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, February 13, 2010 11:55 AM
Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output

Gary, I have your disc for the B series. First of all, I
very strongly recommend that anyone who has this line get
the disc.
In the pictures of the chassis I noticed that the ring
modulator connections to the AVC and output to the IF amp
seem to be reversed from the way mine is connected. I wonder
if this is an optical illusion or if mine is wired
differently or if some previous owner changed it. In the
illustration the AVC lead (black wire from the nearby
circuit board) is connected to the far bottom pin (right
most pin) of the can while the output to the grid of the IF
is connected to the left most pin so that the two cross.
Mine is wired with the black lead going to the left pin and
the right pin going to the tube grid. Which is correct or
did the factory use both arrangements?
I don't think this has anything to do with my current
problem but it might prove useful to know.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3224. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 20:13:34 UTC
From: Richard Knoppow
Topic: 3202 Message: 3224

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, February 13, 2010 11:55 AM
Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output

Curt -

I think he is referring to an RF Probe, which typically measures an RMS value. Terry didn't specify a band, and ~45V RMS would be in the ballpark. I suspect loading from the probe is a factor here. I haven't specifically tried 80M, but on 40M a 10X probe shows 130V p-p, in TUNE with the GAIN set to just below ALC. With typical BIAS voltage around 60 - 65 volts that's what I would expect also!

But that is a good question Terry, what band are you making your measurements on? Is it the same on several bands?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

FWIW, an oscilloscope with a high impedance probe (10X type) is a good tool for checking RF levels. Or course it measures peak to peak. Voltmeters using single diodes are not linear and may indicate something approaching true RMS at low voltages but will measure peak voltage at higher levels. Most meters are calibrated in the sine wave RMS equivalent of whatever they measure. Some have separate scales for the lower voltages. The more common electronic voltmeters use diode bridge rectifiers which put out average values of voltages. The meters are again usually calibrated in the RMS equivalent for a sine wave. Because the meter scales of either type are calibrated to show something other than what is being measured one can get quite large errors for waveforms other than pure sine waves. In particular peak reading meters can vary where there are harmonics, the amount of the error depending on the phase as well as the

amplitude of the harmonics. This may or may not be
significant in checking something like the RF levels in the
driver stages of a transmitter but should be kept in mind.
The scope will, of course, indicate the actual waveform.
Most scope probes have built-in 10X deviders which also
increase the input impedance when in the X10 position. Most
scopes have about 10 megohm impedance, which means 100
megohm when the probes are set for X10, enough so that
loading of the measured circuit is not often a problem.
I am trying to track down a problem with my own T-4XB.
I had it working well and was looking for an apparent
variation in audio gain when I slipped making a measurement
of the power supply. Whatever I did blew the filament fuse
and when I replaced it the drive was down to practically
nothing. I've gone through the tubes and replaced a couple
but to no avail. I am still working on this and am not quite
ready to yell for help yet.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3225. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 21:25:01 UTC
From: kf0hr
Topic: 3202 Message: 3225

OK now I have 100+ watts output with my T4XB. Was going to see how much RF was at tube V3 6AU6. Popped in tube extender and my RF jumped to 100+ watts output? Maybe moved something with the tight fit of the tube extender. Might have a bad Pin on the tube socket? Or my RF probe loaded down the tube when testing and it started to work again? Will up date when I find the problem. I show 55 volts RMS on my RF probe at the final tube on the pin 2-6 strip. With the 10 watts out it was at about 20 volts RMS with RF probe. Will have to look at the RF with scope to see how that works.

Thanks for help to this point.
Terry KF0HR

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Saturday, February 13, 2010 11:55 AM
> Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output
>
>
> Curt -
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> value. Terry didn't specify a band, and ~45V RMS would be in
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> loading of the measured circuit is not often a problem.
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> variation in audio gain when I slipped making a measurement
> of the power supply. Whatever I did blew the filament fuse
> and when I replaced it the drive was down to practically
> nothing. I've gone through the tubes and replaced a couple
> but to no avail. I am still working on this and am not quite
> ready to yell for help yet.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3226. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 21:26:41 UTC
From: Garey Barrell
Topic: 3202 Message: 3226

Terry -

OK. 50V RMS is about right. If you're only getting 25 VRMS the Final tubes are not being driven to full power. So the problem is "further upstream". What RF voltage do you measure on the Grid of V4?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> This is Terry. Just checked the T4XB on 80M for 25 volts RMS, 40M for 22 volts RMS, 20M for 18 volts RMS. The 10 watts output drops off some as I go up in Freq. I just hooked up my spare T4X and checked for drive at the finals with the RF Probe. It show 80M 50 volts RMS. So my T4XB has low drive. I don't know why this has changed? You know how it goes when you start checking so many things. Also maybe the transmitter is changing? Old test equipment? Now I need to back up again.I might not have enough drive to get 100+ watts. Time to start over and check everything again.
> Thanks for the Help Terry KF0HR
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Curt -
>>
>> I think he is referring to an RF Probe, which typically measures an RMS
>> value. Terry didn't specify a band, and ~45V RMS would be in the
>> ballpark. I suspect loading from the probe is a factor here. I haven't
>> specifically tried 80M, but on 40M a 10X probe shows 130V p-p, in TUNE
>> with the GAIN set to just below ALC. With typical BIAS voltage around 60
>> - 65 volts that's what I would expect also!
>>
>> But that is a good question Terry, what band are you making your
>> measurements on? Is it the same on several bands?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> captcurt2000 wrote:
>>
>>> OK..here is another question. He indicated he is seeing about 30V of RF drive..was that

RMS from the RF probe?
>>>
>>> I saw someone post that it only took 40-50V P-P to drive these rigs' finals but that seems like half of what I would guess.
>>>
>>> If the Bias is sitting at (nominally) -60, it seem like it would take 120 P-P to get the finals to draw grid current and thus ALC??
>>>
>>> I hav a couple of TR's and the good ones have over 100 P-P on the grids of finals measured directly with a scope on 80M. The measurement gets iffy above that due to probe loading--but this is a value that makes sense me..The TR that have low output all show in the neighborhood of 30-50V P-P there.
>>>
>>> Am I missing something?
>>>
>>> Thanks
>>>
>>> Curt
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
>>>> is going 'out of circuit'. You're getting about 1/2 of normal output
>>>> current, and the Pi-Net is set to see the plate impedance of two tubes,
>>>> but only one is working. Check the voltage at both Pin 3s to see if they
>>>> are about the same.
>>>>
>>>> 350 mA is about normal for two tubes, or about 175 mA each. You should
>>>> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
>>>> feedthrough C60.
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>> kf0hr wrote:
>>>>
>>>>
>>>>> Garey,
>>>>>
>>>>> My T4XB
>>>>> Final tube
>>>>> Rx Plate is 722 volts TX at 10 watts is 685 volts
>>>>> Rx Pin3 is 149 volts TX is.39 volts
>>>>> Rx screen is266 volts and drops to 245 volts in TX
>>>>> idle Bios is .07
>>>>> Plate current at 10 watts is .15 when I was TX at 100+ plate was over .3 amps.

>>>>> Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
>>>>> I have checked voltages against my T4X and different power supply with same results. Also tried known good final tubes, the TX has put out 100+ watts 2 times but has dropped back to only 10 watts again.
>>>>> This transmitter should put out 100watts. What is holding it back???
>>>>>
>>>>> Thanks,
>>>>>
>>>>> Terry KF0HR in North Dakota with a foot of new snow…..WOW
>>>>>
>>>>>
>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>>>
>>>>>
>>>>>
>>>>>> Terry -
>>>>>>
>>>>>> OK. Well gotta start somewhere in the process of elimination! :-)
>>>>>>
>>>>>> What happens to the plate current at both levels?
>>>>>>
>>>>>> Have you tried swapping Final tubes?
>>>>>>
>>>>>> What is the Final Screen voltage at "low power"?
>>>>>>
>>>>>> 73, Garey - K4OAH
>>>>>> Glen Allen, VA
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>>>>>>>
>>>>>>> Lost on the LOW RF with 7 new inches of snow.

>>>>>>> Terry KF0HR in North Dakota
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>>>> Terry -
>>>>>>>>>
>>>>>>>>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
>>>>>>>>> sometimes crack "invisibly" making various resistance levels. Give each
>>>>>>>>> one a little tug or push as well. Less likely, but possible is C61.
>>>>>>>>>
>>>>>>>>> 73, Garey - K4OAH
>>>>>>>>> Glen Allen, VA
>>>>>>>>>
>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>>>>>>> <www.k4oah.com>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> kf0hr wrote:
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>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>> Hi, Need some help with my Drake T-4XB transmitter. This transmitter has been
sitting unused for 15 years. I brought it up to see if it worked before cleaning and using
Deoxit5. It put out 100+ watts into the dummy load. Cleaned all switches, contacts, tube
pins and Deoxit5 same. Worked OK after cleaning then lost most of the output. It dropped to
about 10 watts? RF is same at 12BY7 driver tube on the plate pin 7 as it is going into pin
2 of the final tube. A little loss is shown at the antenna connector at rear of TX. Checked
all voltages and ohmed out finals. All look close per manual, tried different final tubes
known good tested in my T-4X, compared readings with my T-4XB and my T-4X. All look to be
close to same? Why the low RF output? Then out of the blue I get back my 100+ watts output
for about a day. Then it dropped back to the 10 watts output? Replace the disk caps on the
finals with no change. Final Cathodes drop to .1 volts in tune position. Lost as to what is
holding the transmitter finals from full power? One more problem is my TX relay closes and
don't release all the time when I have the low 10 watts output?
>

3227. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 21:38:12 UTC
From: w5rkl
Topic: 3202 Message: 3227

Hi Gary,

Hope you are doing well.

I suspect the only reason V10 affects the RF output is it's physical location and filament wiring to V1. Moving V10 can cause movement in V1 wiring. V10 doesn't actually cause the RF to drop but the physical movement of the wiring does.

If the problem occurred in sideband then I would agree, R94 may be the source. However, the problem occurs in CW mode. When it happens, it doesn't matter what mode the xmtr's in, RF output is down to 10 watts at most and that's with the GAIN pot set to maximum. I don't normally set the GAIN pot that high but to check, I set it at maximum but there was no change.

I can see V1B causing a significant reduction in RF being fed to V2 from the balance modulator if there's an intermittent short to ground in V2B's circuit. I'll have to check it to see. More than likely the close proximity of V10 to V1 and the filament wiring may be causing the intermittent connections in V1 that is causing my problem.

I also know the balance modulator transformer, T1, has an intermittent connection inside the can. This is not the same problem caused by moving V1 or V10. If I touch T1's adjustment the RF output drops to zero. Touching V1 or V10 the output drops to 10 watts. Either way, I have 2 problems that need fixing.

Always something with these old rigs. Love working on them.

73s
Mike W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Hi Mike -
>
> Haven't heard from you in a while! I can see how V1 might be affected,
> but I don't see V10 causing this kind of problem.... interesting.
>
> R94 may be a 'common' part, if it were cracked or ? It's right at the
> top of that board. Mounting screws for that board?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

> w5rkl wrote:
> > I have a similar intermittent power output problem. It occurs on all bands.
> >
> > If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.
> >
> > I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.
> >
> > You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.
> >
> > Just a thought.
> >
> > 73s
> > Mike W5RKL
> >
> >
> >
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> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >> OK. Have you checked R32 and R33? It sounds like one of the Final tubes
> >> is going 'out of circuit'. You're getting about 1/2 of normal output
> >> current, and the Pi-Net is set to see the plate impedance of two tubes,
> >> but only one is working. Check the voltage at both Pin 3s to see if they
> >> are about the same.
> >>
> >> 350 mA is about normal for two tubes, or about 175 mA each. You should
> >> see about 1.4 VDC at each Pin 3, and a little less than 1 VDC at the
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> >> kf0hr wrote:
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> >>> Garey,
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> >>> My T4XB
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> >>> Rx Plate is 722 volts TX at 10 watts is 685 volts
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> >>> Just checked RF probe at 12BY7 pin 7 plate is 30 and at 6jb6 pin 2&6 strip I have 30 (same)
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> >>> What happens to the plate current at both levels?
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> >>> Terry KF0HR in North Dakota
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> >>>>>
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> >>>>>> Check value and condition of R23, R24, R26, R30, R31 and R36. They
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> >>>>>>> Thanks, Terry KF0HR in North Dakota
> >
>

3228. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 21:43:30 UTC
From: Garey Barrell
Topic: 3202 Message: 3228

Richard -

Glad you're finding the CD useful!

I can't find my "other" T-4XB, so can't speak to the "standard"
question, but I just opened up model for the CD, and it is indeed wired
as you thought. Another interesting fact is that C9 is NOT connected
across the secondary as shown on the schematic, but is connected from
the tube Pin to chassis. Looking closely at this one, all appears
original, and no burned insulation in a very tight spot, so I think it's
safe to assume that it is factory.

I think I know where the other transmitter is.... :-) Lemme check!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Saturday, February 13, 2010 11:55 AM
> Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output
>
> Gary, I have your disc for the B series. First of all, I
> very strongly recommend that anyone who has this line get
> the disc.
> In the pictures of the chassis I noticed that the ring
> modulator connections to the AVC and output to the IF amp
> seem to be reversed from the way mine is connected. I wonder
> if this is an optical illusion or if mine is wired
> differently or if some previous owner changed it. In the
> illustration the AVC lead (black wire from the nearby
> circuit board) is connected to the far bottom pin (right
> most pin) of the can while the output to the grid of the IF
> is connected to the left most pin so that the two cross.
> Mine is wired with the black lead going to the left pin and
> the right pin going to the tube grid. Which is correct or
> did the factory use both arrangements?
> I don't think this has anything to do with my current
> problem but it might prove useful to know.
>
>

> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>

3229. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 21:50:57 UTC
From: Garey Barrell
Topic: 3202 Message: 3229

Mike -

OK. Have you opened up T1? They have a habit of shorting one of the
diode ring nodes to the can.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Hi Gary,
>
> Hope you are doing well.
>
> I suspect the only reason V10 affects the RF output is it's physical location and filament wiring to V1. Moving V10 can cause movement in V1 wiring. V10 doesn't actually cause the RF to drop but the physical movement of the wiring does.
>
> If the problem occurred in sideband then I would agree, R94 may be the source. However, the problem occurs in CW mode. When it happens, it doesn't matter what mode the xmtr's in, RF output is down to 10 watts at most and that's with the GAIN pot set to maximum. I don't normally set the GAIN pot that high but to check, I set it at maximum but there was no change.
>
> I can see V1B causing a significant reduction in RF being fed to V2 from the balance modulator if there's an intermittent short to ground in V2B's circuit. I'll have to check it to see. More than likely the close proximity of V10 to V1 and the filament wiring may be causing the intermittent connections in V1 that is causing my problem.
>
> I also know the balance modulator transformer, T1, has an intermittent connection inside the can. This is not the same problem caused by moving V1 or V10. If I touch T1's adjustment the RF output drops to zero. Touching V1 or V10 the output drops to 10 watts. Either way, I have 2 problems that need fixing.
>
> Always something with these old rigs. Love working on them.
>
> 73s
> Mike W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Hi Mike -
>>

>> Haven't heard from you in a while! I can see how V1 might be affected,
>> but I don't see V10 causing this kind of problem.... interesting.
>>
>> R94 may be a 'common' part, if it were cracked or ? It's right at the
>> top of that board. Mounting screws for that board?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>> w5rkl wrote:
>>
>>> I have a similar intermittent power output problem. It occurs on all bands.
>>>
>>> If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.
>>>
>>> I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.
>>>
>>> You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.
>>>
>>> Just a thought.
>>>
>>> 73s
>>> Mike W5RKL
>>>
>

3230. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 22:04:15 UTC
From: Garey Barrell
Topic: 3202 Message: 3230

Terry -

Cool, Progress!! You should see about 3 V p-p on the Secondary of T2,
and about 3 V p-p on the "top" of the Secondary of T3 (C16) of Carrier
Osc signal, and about 3V p-p on the "bottom" (R15) of T3 of the PreMixer
signal. You should have about 6 V p-p on the Grid of V4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> OK now I have 100+ watts output with my T4XB. Was going to see how much RF was at tube V3 6AU6. Popped in tube extender and my RF jumped to 100+ watts output? Maybe moved something with the tight fit of the tube extender. Might have a bad Pin on the tube socket? Or my RF probe loaded down the tube when testing and it started to work again? Will up date when I find the problem. I show 55 volts RMS on my RF probe at the final tube on the pin 2-6 strip. With the 10 watts out it was at about 20 volts RMS with RF probe. Will have to look at the RF with scope to see how that works.
>
> Thanks for help to this point.
> Terry KF0HR
>
>
> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow"<1oldlens1@...> wrote:
>
>>
>> ----- Original Message -----
>> From: "Garey Barrell"<k4oah@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Saturday, February 13, 2010 11:55 AM
>> Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output
>>
>>
>> Curt -
>>
>> I think he is referring to an RF Probe, which typically
>> measures an RMS
>> value. Terry didn't specify a band, and ~45V RMS would be in
>> the
>> ballpark. I suspect loading from the probe is a factor here.
>> I haven't
>> specifically tried 80M, but on 40M a 10X probe shows 130V
>> p-p, in TUNE

>> with the GAIN set to just below ALC. With typical BIAS
>> voltage around 60
>> - 65 volts that's what I would expect also!
>>
>> But that is a good question Terry, what band are you making
>> your
>> measurements on? Is it the same on several bands?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>> FWIW, an oscilloscope with a high impedance probe (10X
>> type) is a good tool for checking RF levels. Or course it
>> measures peak to peak. Voltmeters using single diodes are
>> not linear and may indicate something approaching true RMS
>> at low voltages but will measure peak voltage at higher
>> levels. Most meters are calibrated in the sine wave RMS
>> equivalent of whatever they measure. Some have separate
>> scales for the lower voltages. The more common electronic
>> voltmeters use diode bridge rectifiers which put out average
>> values of voltages. The meters are again usually calibrated
>> in the RMS equivalent for a sine wave. Because the meter
>> scales of either type are calibrated to show something other
>> than what is being measured one can get quite large errors
>> for waveforms other than pure sine waves. In particular peak
>> reading meters can vary where there are harmonics, the
>> amount of the error depending on the phase as well as the
>> amplitude of the harmonics. This may or may not be
>> significant in checking something like the RF levels in the
>> driver stages of a transmitter but should be kept in mind.
>> The scope will, of course, indicate the actual waveform.
>> Most scope probes have built-in 10X deviders which also
>> increase the input impedance when in the X10 position. Most
>> scopes have about 10 megohm impedance, which means 100
>> megohm when the probes are set for X10, enough so that
>> loading of the measured circuit is not often a problem.
>> I am trying to track down a problem with my own T-4XB.
>> I had it working well and was looking for an apparent
>> variation in audio gain when I slipped making a measurement
>> of the power supply. Whatever I did blew the filament fuse
>> and when I replaced it the drive was down to practically
>> nothing. I've gone through the tubes and replaced a couple
>> but to no avail. I am still working on this and am not quite
>> ready to yell for help yet.
>

3231. Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 22:29:41 UTC
From: randyinaura
Topic: 3204 Message: 3231

Cheesh, I can't even get a trophy. This hasn't been my week.

I know that International Crystal Mfg. is perhaps the favored place to get crystals for our rigs, and I know that this subject has been broached before, but in the interest of completeness, are there any new places that are now highly though of for Drake crystals? Obviously I need a couple of 12.6 Kc crystals; one series resonant for the R-4A and one parallel resonant for the T-4X.

Thanks in advance for any comments and 73 all.

K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, "Carl McLelland" <carlynneracing@...> wrote:
>
> Randy,
> Sorry, but unless you turn around and ask again next week why your dead on 160..... No Trophy!!
>
> It takes a man to come forward and say..... "Oops!"..
> Carl KF7GJO
>
> ----- Original Message -----
> From: randyinaura
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, February 12, 2010 6:50 PM
> Subject: [DrakeRadio] Re: R-4A Dead on 160m
>
>
>
> Dale,
>
> Someone once said that the only stupid question is the one not asked. That's true I suppose, except for my question. No, I don't have a 160m crystal. How dumb is that?
>
> I've had this receiver for several years, but never worked on 160m. I use my Kenwood TS-520S for that. This evening, I just thought I'd do a comparison of the two rigs. That's when I discovered the R-4A was dead. After reading your answer, I looked at the manual and right there on page 3 it says, "80-10m ham bands are stock; others require crystals to be added". I guess I assumed that since 1.5-3.0Mc was one of the band switch positions, that I was good to go. RTFB they told us in the service. I should have listened.
>
> Now I'm off to find the proper crystal for 160m. Thanks for your help. I'll be expecting my dummy-of-the-Month award in the mail shortly.
>
> 73 de K8HRO - Randy
>

> --- In DrakeRadio@yahoogroups.com, "Dale Parfitt" <parinc1@> wrote:
> >
> > Do you have a 160M crystal installed in the crystal deck?
> > Dale W4OP
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3232. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 22:35:05 UTC
From: Garey Barrell
Topic: 3202 Message: 3232

Richard -

Me again! I found the other T-4XB, and it is wired exactly like the one in the CD. So yes, they DO cross over, and C9 is wired from the tube pin to ground. Swapping them the way yours is would invert the phase, but that shouldn't make any difference. Maybe someone just felt rebellious that day!! :-)

These are both the late version, 17 and 19k s/n. If yours is before 16159 there may have been a change.

Garey - K4OAH

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Saturday, February 13, 2010 11:55 AM
> Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output
>
> Gary, I have your disc for the B series. First of all, I
> very strongly recommend that anyone who has this line get
> the disc.
> In the pictures of the chassis I noticed that the ring
> modulator connections to the AVC and output to the IF amp
> seem to be reversed from the way mine is connected. I wonder
> if this is an optical illusion or if mine is wired
> differently or if some previous owner changed it. In the
> illustration the AVC lead (black wire from the nearby
> circuit board) is connected to the far bottom pin (right
> most pin) of the can while the output to the grid of the IF
> is connected to the left most pin so that the two cross.
> Mine is wired with the black lead going to the left pin and
> the right pin going to the tube grid. Which is correct or
> did the factory use both arrangements?
> I don't think this has anything to do with my current
> problem but it might prove useful to know.
>
>
>

3233. Re: R-4A Dead on 160m

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-13 23:04:45 UTC
From: randyinaura
Topic: 3204 Message: 3233

Bill,

I need at least two 12.6 Kc crystals and I'm thinking about getting some for a few other bands as well. However, if I get in a pinch, I'll keep you in mind. Thanks for the offer.
73,
K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, Bill Frost <wd8dfp@...> wrote:
>
> Hello Randy,
>
> If you still need a 12.6 Mhz crystal, I have for sale, $15.00. I also have a few other 4-line crystals if needed.
>
> Tnx & 73, Bill
>
> --- On Fri, 2/12/10, randyinaura <rfb13@...> wrote:
>
> > From: randyinaura <rfb13@...>
> > Subject: [DrakeRadio] Re: R-4A Dead on 160m
> > To: DrakeRadio@yahoogroups.com
> > Date: Friday, February 12, 2010, 9:50 PM
> > Dale,
> >
> > Someone once said that the only stupid question is the one
> > not asked. That's true I suppose, except for my
> > question. No, I don't have a 160m crystal. How
> > dumb is that?
> >
> > I've had this receiver for several years, but never worked
> > on 160m. I use my Kenwood TS-520S for that. This
> > evening, I just thought I'd do a comparison of the two
> > rigs. That's when I discovered the R-4A was
> > dead. After reading your answer, I looked at the
> > manual and right there on page 3 it says, "80-10m ham bands
> > are stock; others require crystals to be added". I
> > guess I assumed that since 1.5-3.0Mc was one of the band
> > switch positions, that I was good to go. RTFB they
> > told us in the service. I should have listened.
> >
> > Now I'm off to find the proper crystal for 160m.
> > Thanks for your help. I'll be expecting my
> > dummy-of-the-Month award in the mail shortly.
> >
> > 73 de K8HRO - Randy

> >
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com,
> > "Dale Parfitt" <parinc1@> wrote:
> > >
> > > Do you have a 160M crystal installed in the
> > crystal deck?
> > > Dale W4OP
> > >
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >   DrakeRadio-fullfeatured@yahoogroups.com
> >
> >
> >
>

3234. Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 00:22:47 UTC
From: w5rkl
Topic: 3202 Message: 3234

Gary,

No not yet. I want to get the V1/V10 problem fixed first then tackle T1. Other than those 2 problems the T4XC is doing fine, especially after rebuilding the AC4 supply.

I'll keep ya posted.

73s
Mike W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> OK. Have you opened up T1? They have a habit of shorting one of the
> diode ring nodes to the can.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w5rkl wrote:
> > Hi Gary,
> >
> > Hope you are doing well.
> >
> > I suspect the only reason V10 affects the RF output is it's physical location and filament wiring to V1. Moving V10 can cause movement in V1 wiring. V10 doesn't actually cause the RF to drop but the physical movement of the wiring does.
> >
> > If the problem occurred in sideband then I would agree, R94 may be the source. However, the problem occurs in CW mode. When it happens, it doesn't matter what mode the xmtr's in, RF output is down to 10 watts at most and that's with the GAIN pot set to maximum. I don't normally set the GAIN pot that high but to check, I set it at maximum but there was no change.
> >
> > I can see V1B causing a significant reduction in RF being fed to V2 from the balance modulator if there's an intermittent short to ground in V2B's circuit. I'll have to check it to see. More than likely the close proximity of V10 to V1 and the filament wiring may be causing the intermittent connections in V1 that is causing my problem.
> >
> > I also know the balance modulator transformer, T1, has an intermittent connection inside the can. This is not the same problem caused by moving V1 or V10. If I touch T1's

adjustment the RF output drops to zero. Touching V1 or V10 the output drops to 10 watts. Either way, I have 2 problems that need fixing.
> >
> > Always something with these old rigs. Love working on them.
> >
> > 73s
> > Mike W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Hi Mike -
> >>
> >> Haven't heard from you in a while! I can see how V1 might be affected,
> >> but I don't see V10 causing this kind of problem.... interesting.
> >>
> >> R94 may be a 'common' part, if it were cracked or ? It's right at the
> >> top of that board. Mounting screws for that board?
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> w5rkl wrote:
> >>
> >>> I have a similar intermittent power output problem. It occurs on all bands.
> >>>
> >>> If V1 or V10 are moved either by vibration or your finger, RF output drops from 100 watts to 10 watts. Tapping on the chassis or cases typically brings the output back to 100 watts. Output does come back "some times" if V1 and/or V10 are moved by my fingers.
> >>>
> >>> I have visually inspected V1 and V10 sockets and found nothing lose or shorted. My next step is to check the crimp pins on the PC board mounted vertically next to V1 and V10 to see if the connections are intermittent.
> >>>
> >>> You might tune up the T4XB to full output then place mode switch in CW and key up into a dummy load. Move V1 and/or V10 to see if RF output falls back to 10 watts. If so then you have the same problem I have which I have not yet found the source of the problem.
> >>>
> >>> Just a thought.
> >>>
> >>> 73s
> >>> Mike W5RKL
> >>>
> > >
>

3235. Re: [DrakeRadio] Re: Drake T-4XB Low power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 02:32:11 UTC
From: Richard Knoppow
Topic: 3202 Message: 3235

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, February 13, 2010 2:35 PM
Subject: Re: [DrakeRadio] Re: Drake T-4XB Low power output

> Richard -
>
> Me again! I found the other T-4XB, and it is wired
> exactly like the one
> in the CD. So yes, they DO cross over, and C9 is wired
> from the tube
> pin to ground. Swapping them the way yours is would
> invert the phase,
> but that shouldn't make any difference. Maybe someone
> just felt
> rebellious that day!! :-)
>
> These are both the late version, 17 and 19k s/n. If yours
> is before
> 16159 there may have been a change.
>
> Garey - K4OAH

Thank you very much for taking the trouble of looking.
I am fighting another problem with this transmitter but
I wonder if the mis-wiring might have caused the nulling
problem I had. When I figure out the other problem I will
try it. Right now I have to work at it in fits and starts
because of time constraint. Work interferes with life a lot.
This particular TX has had a lot of problems but has
certainly taught me a lot about Drake stuff. I am an
old-fashioned type who beleives that amateurs should know
how to repair their own equipment and be able to build at
least rudimentary equipment.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3236. T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 05:21:14 UTC
From: Martin Benoit
Topic: 221 Message: 3236

Recently i bought a T4XC and it have some big ? problem.
First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and nothing on CW mode ?
on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w on CW mode ?
OK on 40 meters ???
Tnx for help
Martin
VE2EDK
VA2ZO

[Non-text portions of this message have been removed]

3237. Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 13:24:36 UTC
From: kf0hr
Topic: 3237 Message: 3237

Hello list,

My Drake T4XB transmitter relay is hanging up once and awhile?

How do I tell if it is the relay circuit or the relay itself?
When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?

Thanks Terry KF0HR in North Dakota

3238. T-4X Sidetone in Spot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 14:25:05 UTC
From: russellhulett
Topic: 3238 Message: 3238

I have a T-4X paired with an R-4 in "separate". When switched to spot on the Tx, I hear the sidetone as well as the VFO signal. That is, there is a constant frequency tone heard no matter the setting of the Tx VFO. Of course, when the Tx is moved to the received frequency, much louder tone is heard. Is this likely a Tx switch problem or something else?

73, Curt KB5JO

3239. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 14:53:05 UTC
From: Garey Barrell
Topic: 221 Message: 3239

Martin -

First check the Carrier Oscillator frequency. It should be 9.00000 MHz
in SSB MODE and 9.0009 or so in CW.

If you don't have a counter, you can check it with a general coverage
receiver.

Alternatively, note the position of C6, (you can access it through the
hole in the rear chassis wall, on the left side,) for the adjustment.
Using an insulated tool, adjust per the manual, Section 5-9.

If this doesn't resolve it, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Recently i bought a T4XC and it have some big ? problem.
> First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w
on CW mode ?
> OK on 40 meters ???
> Tnx for help
> Martin
> VE2EDK
> VA2ZO
>
>

3240. Re: [DrakeRadio] Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 15:05:02 UTC
From: Garey Barrell
Topic: 3237 Message: 3240

Terry -

Usual cause for this is a gassy 6EV7. Typically it gets worse after the transmitter is on for a while.

Yes, the 6EV7 acts as a switch. When the grid is biased negative, the tube is cut off, and no plate current flows. When the grid is driven positive, the tube conducts heavily and enough plate current flows to pull in the relay. The plate doesn't go to near 0V like a transistor switch, but pulls enough current through the relay to cause it to close.

D9 and D12 develop the ANTI-VOX bias to shift the 6EV7 grid more negative, raising the "trip" threshold.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Hello list,
>
> My Drake T4XB transmitter relay is hanging up once and awhile?
>
> How do I tell if it is the relay circuit or the relay itself?
> When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?
>
> Thanks Terry KF0HR in North Dakota
>
>

3241. Re: [DrakeRadio] T-4X Sidetone in Spot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 15:07:41 UTC
From: Garey Barrell
Topic: 3238 Message: 3241

Curt -

You're probably hearing the sidetone. IF you have not replaced C132,
try bridging a good cap across it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> I have a T-4X paired with an R-4 in "separate". When switched to spot on the Tx, I hear the sidetone as well as the VFO signal. That is, there is a constant frequency tone heard no matter the setting of the Tx VFO. Of course, when the Tx is moved to the received frequency, much louder tone is heard. Is this likely a Tx switch problem or something else?
>
> 73, Curt KB5JO
>
>

3242. Re: Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 18:07:43 UTC
From: kf0hr
Topic: 3237 Message: 3242

Garey,

Thanks for this last post. Really helps me with working on this classic transmitter. I did try changing out the 6EV7 tube with same results on holding the relay in some times. My Drake Twins have been on for the past 4 hours. Had a rag chew for ann hour,the relay never stuck. Now playing with CW and it got hung up again. Light tap on cabinet frees it up. Going to look at the relay with a good light. Might see something?

Thanks for the explanation on how the relay, 6EV7, and the diodes work in this circuit. Working on the old radios is not only fun but I am learning something about how they work. Thanks, Terry KF0HR in North Dakota

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Terry -
>
> Usual cause for this is a gassy 6EV7. Typically it gets worse after the
> transmitter is on for a while.
>
> Yes, the 6EV7 acts as a switch. When the grid is biased negative, the
> tube is cut off, and no plate current flows. When the grid is driven
> positive, the tube conducts heavily and enough plate current flows to
> pull in the relay. The plate doesn't go to near 0V like a transistor
> switch, but pulls enough current through the relay to cause it to close.
>
> D9 and D12 develop the ANTI-VOX bias to shift the 6EV7 grid more
> negative, raising the "trip" threshold.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Hello list,
> >
> > My Drake T4XB transmitter relay is hanging up once and awhile?
> >
> > How do I tell if it is the relay circuit or the relay itself?
> > When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?
> >

> > Thanks Terry KF0HR in North Dakota
> >
> >
>

3243. Drake MS-4 speaker low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 18:18:01 UTC
From: kf0hr
Topic: 3243 Message: 3243

Hello List,

Here is a strange one, anyone eles had this happen?

My MS-4 speaker hooked to my Drake R4B receiver had low audio. So I have been running a spare 4 ohm speaker for testing. Well pulled out the power supply from MS-4 cabinet. Installed new 4 ohm speaker, replaced the AC supply into cabinet. The new speaker had same low audio?
When removing the AC supply box from cabinet my audio jumped up loud and strong just as soon as the power supply was away from speaker cabinet? I see about 1 volt AC between the speaker cabinet and power supply. Must be some leakage in the power supply? Any ideas on why grounding the power supply to speaker cabinet does this?

Thanks Terry KF0HR in North Dakota.....

3244. Re: [DrakeRadio] Re: Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 18:27:37 UTC
From: Garey Barrell
Topic: 3237 Message: 3244

Terry -

OK. When it "sticks" in CW does the receiver stay muted?

I believe you have replaced C129.

Check the relay for mechanical interference from wiring.

If you have another 6EV7 it's worth a try. Even NOS tubes can be gassy
after 40 years!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Garey,
>
> Thanks for this last post. Really helps me with working on this classic transmitter. I did try changing out the 6EV7 tube with same results on holding the relay in some times. My Drake Twins have been on for the past 4 hours. Had a rag chew for ann hour,the relay never stuck. Now playing with CW and it got hung up again. Light tap on cabinet frees it up. Going to look at the relay with a good light. Might see something?
>
> Thanks for the explanation on how the relay, 6EV7, and the diodes work in this circuit. Working on the old radios is not only fun but I am learning something about how they work.
> Thanks, Terry KF0HR in North Dakota
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Terry -
>>
>> Usual cause for this is a gassy 6EV7. Typically it gets worse after the
>> transmitter is on for a while.
>>
>> Yes, the 6EV7 acts as a switch. When the grid is biased negative, the
>> tube is cut off, and no plate current flows. When the grid is driven
>> positive, the tube conducts heavily and enough plate current flows to
>> pull in the relay. The plate doesn't go to near 0V like a transistor
>> switch, but pulls enough current through the relay to cause it to close.
>>
>> D9 and D12 develop the ANTI-VOX bias to shift the 6EV7 grid more
>> negative, raising the "trip" threshold.
>>

>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> kf0hr wrote:
>>
>>> Hello list,
>>>
>>> My Drake T4XB transmitter relay is hanging up once and awhile?
>>>
>>> How do I tell if it is the relay circuit or the relay itself?
>>> When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?
>>>
>>> Thanks Terry KF0HR in North Dakota
>

3245. Re: Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 20:02:02 UTC
From: kf0hr
Topic: 3237 Message: 3245

Garey,

I just repalced the C129 dual cap with new caps. Still hangs up the relay. I had tried a different 6EV7 tube out of my T4X(worked OK). Went out to my radio storage shack and found a GE6EV7 new in the box. Inserted the new tube and no relay sticking. Also the delay sets real nice now. So will put the leaky tube into my tube tester and see if it can show the leak? I had a leaky tube in my Collins KWS-1 a couple winters ago. Should have tried more than one tube...

Thanks, Terry KF0HR in North Dakota

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Terry -
>
> OK. When it "sticks" in CW does the receiver stay muted?
>
> I believe you have replaced C129.
>
> Check the relay for mechanical interference from wiring.
>
> If you have another 6EV7 it's worth a try. Even NOS tubes can be gassy
> after 40 years!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kf0hr wrote:
> > Garey,
> >
> > Thanks for this last post. Really helps me with working on this classic transmitter. I did try changing out the 6EV7 tube with same results on holding the relay in some times. My Drake Twins have been on for the past 4 hours. Had a rag chew for ann hour,the relay never stuck. Now playing with CW and it got hung up again. Light tap on cabinet frees it up. Going to look at the relay with a good light. Might see something?
> >
> > Thanks for the explanation on how the relay, 6EV7, and the diodes work in this circuit. Working on the old radios is not only fun but I am learning something about how they work.
> > Thanks, Terry KF0HR in North Dakota
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:

> >
> >> Terry -
> >>
> >> Usual cause for this is a gassy 6EV7. Typically it gets worse after the
> >> transmitter is on for a while.
> >>
> >> Yes, the 6EV7 acts as a switch. When the grid is biased negative, the
> >> tube is cut off, and no plate current flows. When the grid is driven
> >> positive, the tube conducts heavily and enough plate current flows to
> >> pull in the relay. The plate doesn't go to near 0V like a transistor
> >> switch, but pulls enough current through the relay to cause it to close.
> >>
> >> D9 and D12 develop the ANTI-VOX bias to shift the 6EV7 grid more
> >> negative, raising the "trip" threshold.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> kf0hr wrote:
> >>
> >>> Hello list,
> >>>
> >>> My Drake T4XB transmitter relay is hanging up once and awhile?
> >>>
> >>> How do I tell if it is the relay circuit or the relay itself?
> >>> When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?
> >>>
> >>> Thanks Terry KF0HR in North Dakota
> >
>

3246. Re: [DrakeRadio] Re: Drake T4XB relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 20:31:08 UTC
From: Garey Barrell
Topic: 3237 Message: 3246

Terry -

OK, great! Just another of the many reasons I advise against "shotgun" replacement of all tubes in a radio at once!

They're called "gassy", and in some cases that's the actual mechanism. The 6EV7 and the 12BA6 suffer from "grid emission", which is when material boils off of the cathode and is deposited on the grid. Then when to grid heats up, that material actually emits electrons and drives the grid more positive. In the 12BA6 IF tubes it alters the operating point of the tube, which unbalances the S-Meter. This is why S-Meters "drift" over hours of operation, either positive or negative depending upon which tube is "gassy". In the 6EV7 it presents as altering the grid voltage a little, enough to hold the relay in, but not enough to PULL it in. The longer the transmission, the hotter the grid gets and the more it shifts.

Up and running!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kf0hr wrote:
> Garey,
>
> I just repalced the C129 dual cap with new caps. Still hangs up the relay. I had tried a different 6EV7 tube out of my T4X(worked OK). Went out to my radio storage shack and found a GE6EV7 new in the box. Inserted the new tube and no relay sticking. Also the delay sets real nice now. So will put the leaky tube into my tube tester and see if it can show the leak? I had a leaky tube in my Collins KWS-1 a couple winters ago. Should have tried more than one tube...
>
> Thanks, Terry KF0HR in North Dakota
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Terry -
>>
>> OK. When it "sticks" in CW does the receiver stay muted?
>>
>> I believe you have replaced C129.
>>
>> Check the relay for mechanical interference from wiring.

>>
>> If you have another 6EV7 it's worth a try. Even NOS tubes can be gassy
>> after 40 years!!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> kf0hr wrote:
>>
>>> Garey,
>>>
>>> Thanks for this last post. Really helps me with working on this classic transmitter. I did try changing out the 6EV7 tube with same results on holding the relay in some times. My Drake Twins have been on for the past 4 hours. Had a rag chew for ann hour,the relay never stuck. Now playing with CW and it got hung up again. Light tap on cabinet frees it up. Going to look at the relay with a good light. Might see something?
>>>
>>> Thanks for the explanation on how the relay, 6EV7, and the diodes work in this circuit. Working on the old radios is not only fun but I am learning something about how they work.
>>> Thanks, Terry KF0HR in North Dakota
>>>
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Terry -
>>>>
>>>> Usual cause for this is a gassy 6EV7. Typically it gets worse after the
>>>> transmitter is on for a while.
>>>>
>>>> Yes, the 6EV7 acts as a switch. When the grid is biased negative, the
>>>> tube is cut off, and no plate current flows. When the grid is driven
>>>> positive, the tube conducts heavily and enough plate current flows to
>>>> pull in the relay. The plate doesn't go to near 0V like a transistor
>>>> switch, but pulls enough current through the relay to cause it to close.
>>>>
>>>> D9 and D12 develop the ANTI-VOX bias to shift the 6EV7 grid more
>>>> negative, raising the "trip" threshold.
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>

>>>> kf0hr wrote:
>>>>
>>>>
>>>>> Hello list,
>>>>>
>>>>> My Drake T4XB transmitter relay is hanging up once and awhile?
>>>>>
>>>>> How do I tell if it is the relay circuit or the relay itself?
>>>>> When it sticks a love tape(Valentine's day) on the TX releases the relay back to receive mode. I don't quite understand the relay circuit? I see the 250 volt on one side of the relay. The other side goes to the V10b 6EV7 tube. Does the 6EV7 tube go low to pull in the relay? How about the diode D9 and D12, what are they doing in this chain?
>>>>>
>>>>> Thanks Terry KF0HR in North Dakota
>>>>>
>

3247. Re: [DrakeRadio] Drake MS-4 speaker low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 20:39:24 UTC
From: Ken Burchfield
Topic: 3243 Message: 3247

Terry, some questions about the strange MS-4
1. do you use the rca plug/connector in the speaker case? could problem be in that cable?
2 The diagram that I saw of the AC-4 show some strange use of the 12pin power connector?
3. Did ohm meter of the cable to radio show any problem??
4. Cant see much there , but cable wire and connector. ....May account for the intermittent when changing speaker..
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 2/14/10, kf0hr <twhermanson@...> wrote:

From: kf0hr <twhermanson@stellarnet.com>
Subject: [DrakeRadio] Drake MS-4 speaker low output
To: DrakeRadio@yahoogroups.com
Date: Sunday, February 14, 2010, 12:18 PM

Hello List,

Here is a strange one, anyone eles had this happen?

My MS-4 speaker hooked to my Drake R4B receiver had low audio. So I have been running a spare 4 ohm speaker for testing. Well pulled out the power supply from MS-4 cabinet. Installed new 4 ohm speaker, replaced the AC supply into cabinet. The new speaker had same low audio?
When removing the AC supply box from cabinet my audio jumped up loud and strong just as soon as the power supply was away from speaker cabinet? I see about 1 volt AC between the speaker cabinet and power supply. Must be some leakage in the power supply? Any ideas on why grounding the power supply to speaker cabinet does this?

Thanks Terry KF0HR in North Dakota.............

[Non-text portions of this message have been removed]

3248. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 21:10:58 UTC
From: Martin Benoit
Topic: 221 Message: 3248

Tnx gary for your fast answer.
When time permit i will try your suggestion.
Martin
VE2EDK
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, February 14, 2010 9:53 AM
Subject: Re: [DrakeRadio] T4XC problem

Martin -

First check the Carrier Oscillator frequency. It should be 9.00000 MHz
in SSB MODE and 9.0009 or so in CW.

If you don't have a counter, you can check it with a general coverage
receiver.

Alternatively, note the position of C6, (you can access it through the
hole in the rear chassis wall, on the left side,) for the adjustment.
Using an insulated tool, adjust per the manual, Section 5-9.

If this doesn't resolve it, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Recently i bought a T4XC and it have some big ? problem.
> First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w
on CW mode ?
> OK on 40 meters ???
> Tnx for help
> Martin
> VE2EDK
> VA2ZO
>
>

[Non-text portions of this message have been removed]

3249. Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 21:14:01 UTC
From: Martin Benoit
Topic: 221 Message: 3249

Anybody try epoxy glue ???
One of the T4XC wafer is broken.
Is it a good idea to fix it with epoxy glue ?
Martin
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, February 14, 2010 9:53 AM
Subject: Re: [DrakeRadio] T4XC problem

Martin -

First check the Carrier Oscillator frequency. It should be 9.00000 MHz
in SSB MODE and 9.0009 or so in CW.

If you don't have a counter, you can check it with a general coverage
receiver.

Alternatively, note the position of C6, (you can access it through the
hole in the rear chassis wall, on the left side,) for the adjustment.
Using an insulated tool, adjust per the manual, Section 5-9.

If this doesn't resolve it, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Recently i bought a T4XC and it have some big ? problem.
> First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w
on CW mode ?
> OK on 40 meters ???
> Tnx for help
> Martin
> VE2EDK
> VA2ZO
>
>

[Non-text portions of this message have been removed]

3250. Re: Drake MS-4 speaker low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 22:15:42 UTC
From: kf0hr
Topic: 3243 Message: 3250

Ken,
My MS-4 speaker had a head phone jack and toggle switch installed on the front panel. I said HAD.....it was wired wrong and pulled the speaker down when the power supply is installed. Will have to see how it is setup with plug and toggle switch. Must have center pin of speaker cable shorting to ground?

My Drake twins are coming back to life after 15 years in closet. I can see why past owner put then away. They needed TLC from a Drake fan.

Thanks for the tips here on the Drake list.

Been long time now with no packet radio here. My local digi became the APRS KF0HR-7

Thanks, Terry KF0HR in North Dakota

--- In DrakeRadio@yahoogroups.com, Ken Burchfield <k5jxl@...> wrote:
>
>
> Terry, some questions about the strange MS-4
> 1. do you use the rca plug/connector in the speaker case? could problem be in that cable?
> 2 The diagram that I saw of the AC-4 show some strange use of the 12pin power connector?
> 3. Did ohm meter of the cable to radio show any problem??
> 4. Cant see much there , but cable wire and connector. ....May account for the intermittent when changing speaker..
> 73 Ken
>
> PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud
>
>
>
> --- On Sun, 2/14/10, kf0hr <twhermanson@...> wrote:
>
> From: kf0hr <twhermanson@...>
> Subject: [DrakeRadio] Drake MS-4 speaker low output
> To: DrakeRadio@yahoogroups.com
> Date: Sunday, February 14, 2010, 12:18 PM
>
> Hello List,
>
> Here is a strange one, anyone eles had this happen?
>
> My MS-4 speaker hooked to my Drake R4B receiver had low audio. So I have been running a spare 4 ohm speaker for testing. Well pulled out the power supply from MS-4 cabinet. Installed new 4 ohm speaker, replaced the AC supply into cabinet. The new speaker had same

low audio?
> When removing the AC supply box from cabinet my audio jumped up loud and strong just as soon as the power supply was away from speaker cabinet? I see about 1 volt AC between the speaker cabinet and power supply. Must be some leakage in the power supply? Any ideas on why grounding the power supply to speaker cabinet does this?
>
> Thanks Terry KF0HR in North Dakota.....
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3251. Re: [DrakeRadio] Re: Drake MS-4 speaker low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 22:32:24 UTC
From: Ken Burchfield
Topic: 3243 Message: 3251

Thanks Terry, good deal, always wanted some Drakes!.
Hope you get all the kinks worked out, I am still tinkering with Heath HW-101 and some ole Atlas.
Most have gone to APRS..Here,.for me too senior, i guess, dont care where I have been or going!! hi hi

Those old Drakes are NICE.
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 2/14/10, kf0hr <twhermanson@...> wrote:

From: kf0hr <twhermanson@...>
Subject: [DrakeRadio] Re: Drake MS-4 speaker low output
To: DrakeRadio@yahoogroups.com
Date: Sunday, February 14, 2010, 4:15 PM

Ken,
My MS-4 speaker had a head phone jack and toggle switch installed on the front panel. I said HAD........it was wired wrong and pulled the speaker down when the power supply is installed. Will have to see how it is setup with plug and toggle switch. Must have center pin of speaker cable shorting to ground?

My Drake twins are coming back to life after 15 years in closet. I can see why past owner put then away. They needed TLC from a Drake fan.

Thanks for the tips here on the Drake list.

Been long time now with no packet radio here. My local digi became the APRS KF0HR-7

Thanks, Terry KF0HR in North Dakota

[Non-text portions of this message have been removed]

3252. Re: T-4X Sidetone in Spot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-14 22:48:41 UTC
From: russellhulett
Topic: 3238 Message: 3252

Thanks Garey, and C132 function would be...? It looks like bypass for microphone amp / sidetone? An open 60uF here would do what?

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> You're probably hearing the sidetone. IF you have not replaced C132,
> try bridging a good cap across it.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> russellhulett wrote:
> > I have a T-4X paired with an R-4 in "separate". When switched to spot on the Tx, I hear the sidetone as well as the VFO signal. That is, there is a constant frequency tone heard no matter the setting of the Tx VFO. Of course, when the Tx is moved to the received frequency, much louder tone is heard. Is this likely a Tx switch problem or something else?
> > >
> > > 73, Curt KB5JO
> > >
> > >
>

3253. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 02:45:29 UTC
From: Martin Benoit
Topic: 221 Message: 3253

Hello Gary
Output is now ok on 80 40 20 2 sidebands idem
on 15 130 watts on tune mod and 15 on cw
on 28 nothing at all.
All switch in the T4XC are very dirty.
Carr osc reading 5.645 C6 make nothing and top resistance also no effect.
Martin
Tnx for your help Gary
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, February 14, 2010 9:53 AM
Subject: Re: [DrakeRadio] T4XC problem

Martin -

First check the Carrier Oscillator frequency. It should be 9.00000 MHz
in SSB MODE and 9.0009 or so in CW.

If you don't have a counter, you can check it with a general coverage
receiver.

Alternatively, note the position of C6, (you can access it through the
hole in the rear chassis wall, on the left side,) for the adjustment.
Using an insulated tool, adjust per the manual, Section 5-9.

If this doesn't resolve it, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Recently i bought a T4XC and it have some big ? problem.
> First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w
on CW mode ?
> OK on 40 meters ???
> Tnx for help
> Martin
> VE2EDK
> VA2ZO
>
>

[Non-text portions of this message have been removed]

3254. Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 04:16:16 UTC
From: marc k
Topic: 221 Message: 3254

I've not tried epoxy on a wafer switch, but it should be perfect for the job.

3255. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 04:48:27 UTC
From: Garey Barrell
Topic: 221 Message: 3255

Martin -

OK. Sorry, I was thinking TR-4 when I said 9.000 MHz.

The Carrier Osc should be 5.644999. on SSB and 5.645 on CW. Did you try the balancing method in the manual Section 5-9? The frequency is VERY critical, so unless you have good counter the manual method is best. If you visualize the two filters as the "tops" of the letter "M", it's very important that the Car Osc be exactly in the "valley" between the two humps. The counter or receiver will ensure that it's not outside of the humps on either side. C6 only moves the Car Osc a few hundred Hz either way.

The method of carrier generation is the same on all bands, so I don't know why you would have low output on CW on only ONE band. For CW operation, the Car Osc is shifted up about 900 Hz so that it is WITHIN one of the humps, and a DC current is applied to the Balanced Modulator diode ring to "unbalance" it to generate the carrier that is then amplified by the transmit chain. You MAY have to turn the XMIT GAIN control considerably higher on 15 and 10M to get enough drive. If the XMIT GAIN control has to be advanced much more than 2 o'clock, you may have a resistor R104 that has increased in value from age.

It's also possible that dirty switch contacts are limiting the current applied to the Bal Mod diodes. The current goes through contacts on the rear of the fourth section of the MODE switch. Clean with DeoxIT liquid (D100L) only, do not spray and do not use any cotton buds or other tools on the contacts. Let the cleaner and rotating the switch through all positions do the cleaning. If all you have it DeoxIT or other spray cleaner, spray some in a small cap and apply the liquid directly to the contacts of the switches.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Hello Gary
> Output is now ok on 80 40 20 2 sidebands idem
> on 15 130 watts on tune mod and 15 on cw
> on 28 nothing at all.
> All switch in the T4XC are very dirty.
> Carr osc reading 5.645 C6 make nothing and top resistance also no effect.
> Martin
> Tnx for your help Gary

> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, February 14, 2010 9:53 AM
> Subject: Re: [DrakeRadio] T4XC problem
>
>
>
> Martin -
>
> First check the Carrier Oscillator frequency. It should be 9.00000 MHz
> in SSB MODE and 9.0009 or so in CW.
>
> If you don't have a counter, you can check it with a general coverage
> receiver.
>
> Alternatively, note the position of C6, (you can access it through the
> hole in the rear chassis wall, on the left side,) for the adjustment.
> Using an insulated tool, adjust per the manual, Section 5-9.
>
> If this doesn't resolve it, let us know!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> Martin Benoit wrote:
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nothing on CW mode ?
> > on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
5w on CW mode ?
> > OK on 40 meters ???
> > Tnx for help
> > Martin
> > VE2EDK
> > VA2ZO
>
>

3256. Re: [DrakeRadio] Re: T-4X Sidetone in Spot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 05:00:53 UTC
From: Garey Barrell
Topic: 3238 Message: 3256

Curt -

It's not really "open", what happens is that the electrolyte dries up after "only" 40 years or so and the Equivalent Series Resistance (ESR) increases, which essentially puts a resistor in series with the capacitor. When this happens, the audio tone from the MIC AMP (V9a) sidetone oscillator is coupled "around" the diode (D8) switch that keys the sidetone so sidetone all the time, possibly getting louder when the transmitter is keyed, but still present as a sort of "backwave" when it's not..

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
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>
>
>
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>
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>> 73, Garey - K4OAH
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>>> I have a T-4X paired with an R-4 in "separate". When switched to spot on the Tx, I hear the sidetone as well as the VFO signal. That is, there is a constant frequency tone heard no matter the setting of the Tx VFO. Of course, when the Tx is moved to the received frequency, much louder tone is heard. Is this likely a Tx switch problem or something else?
>>>
>>> 73, Curt KB5JO
>>>

>>>
>>>
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

3257. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 10:33:34 UTC
From: Martin Benoit
Topic: 221 Message: 3257

Fine Gary i will check agn for the carr osc.
The xmit gain is ccw so i will check R104.
I will clean the specific section on switch.
Will be back to you soon.
Tnx Gary
Martin
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, February 14, 2010 11:48 PM
Subject: Re: [DrakeRadio] T4XC problem

Martin -

OK. Sorry, I was thinking TR-4 when I said 9.000 MHz.

The Carrier Osc should be 5.644999. on SSB and 5.645 on CW. Did you try the balancing method in the manual Section 5-9? The frequency is VERY critical, so unless you have good counter the manual method is best. If you visualize the two filters as the "tops" of the letter "M", it's very important that the Car Osc be exactly in the "valley" between the two humps. The counter or receiver will ensure that it's not outside of the humps on either side. C6 only moves the Car Osc a few hundred Hz either way.

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It's also possible that dirty switch contacts are limiting the current applied to the Bal Mod diodes. The current goes through contacts on the rear of the fourth section of the MODE switch. Clean with DeoxIT liquid (D100L) only, do not spray and do not use any cotton buds or other tools on the contacts. Let the cleaner and rotating the switch through all positions do the cleaning. If all you have it DeoxIT or other spray cleaner, spray some in a small cap and apply the liquid directly to the contacts of the switches.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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Martin Benoit wrote:
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> on 28 nothing at all.
> All switch in the T4XC are very dirty.
> Carr osc reading 5.645 C6 make nothing and top resistance also no effect.
> Martin
> Tnx for your help Gary
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, February 14, 2010 9:53 AM
> Subject: Re: [DrakeRadio] T4XC problem
>
>
>
> Martin -
>
> First check the Carrier Oscillator frequency. It should be 9.00000 MHz
> in SSB MODE and 9.0009 or so in CW.
>
> If you don't have a counter, you can check it with a general coverage
> receiver.
>
> Alternatively, note the position of C6, (you can access it through the
> hole in the rear chassis wall, on the left side,) for the adjustment.
> Using an insulated tool, adjust per the manual, Section 5-9.
>
> If this doesn't resolve it, let us know!
>
> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>
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> > First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> > on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
5w on CW mode ?
> > OK on 40 meters ???
> > Tnx for help
> > Martin
> > VE2EDK
> > VA2ZO

>
>

[Non-text portions of this message have been removed]

3258. Re: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 14:47:10 UTC
From: Garey Barrell
Topic: 221 Message: 3258

Martin -

I want to make sure I'm not misleading you because of language differences.

In TUNE mode the XMIT GAIN must be turned Clockwise, and will "top out"
around 40% of full rotation.

The XMIT GAIN must be turned Clockwise to half or three quarters
rotation for CW, further Clockwise on CW!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Fine Gary i will check agn for the carr osc.
> The xmit gain is ccw so i will check R104.
> I will clean the specific section on switch.
> Will be back to you soon.
> Tnx Gary
> Martin
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, February 14, 2010 11:48 PM
> Subject: Re: [DrakeRadio] T4XC problem
>
>
>
> Martin -
>
> OK. Sorry, I was thinking TR-4 when I said 9.000 MHz.
>
> The Carrier Osc should be 5.644999. on SSB and 5.645 on CW. Did you try
> the balancing method in the manual Section 5-9? The frequency is VERY
> critical, so unless you have good counter the manual method is best. If
> you visualize the two filters as the "tops" of the letter "M", it's very
> important that the Car Osc be exactly in the "valley" between the two
> humps. The counter or receiver will ensure that it's not outside of the
> humps on either side. C6 only moves the Car Osc a few hundred Hz either
> way.
>
> The method of carrier generation is the same on all bands, so I don't
> know why you would have low output on CW on only ONE band. For CW

> operation, the Car Osc is shifted up about 900 Hz so that it is WITHIN
> one of the humps, and a DC current is applied to the Balanced Modulator
> diode ring to "unbalance" it to generate the carrier that is then
> amplified by the transmit chain. You MAY have to turn the XMIT GAIN
> control considerably higher on 15 and 10M to get enough drive. If the
> XMIT GAIN control has to be advanced much more than 2 o'clock, you may
> have a resistor R104 that has increased in value from age.
>
> It's also possible that dirty switch contacts are limiting the current
> applied to the Bal Mod diodes. The current goes through contacts on the
> rear of the fourth section of the MODE switch. Clean with DeoxIT liquid
> (D100L) only, do not spray and do not use any cotton buds or other tools
> on the contacts. Let the cleaner and rotating the switch through all
> positions do the cleaning. If all you have it DeoxIT or other spray
> cleaner, spray some in a small cap and apply the liquid directly to the
> contacts of the switches.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Martin Benoit wrote:
> > Hello Gary
> > Output is now ok on 80 40 20 2 sidebands idem
> > on 15 130 watts on tune mod and 15 on cw
> > on 28 nothing at all.
> > All switch in the T4XC are very dirty.
> > Carr osc reading 5.645 C6 make nothing and top resistance also no effect.
> > Martin
> > Tnx for your help Gary
> > ----- Original Message -----
> > From: Garey Barrell
> > To: DrakeRadio@yahoogroups.com
> > Sent: Sunday, February 14, 2010 9:53 AM
> > Subject: Re: [DrakeRadio] T4XC problem
> >
> >
> >
> > Martin -
> >
> > First check the Carrier Oscillator frequency. It should be 9.00000 MHz
> > in SSB MODE and 9.0009 or so in CW.
> >
> > If you don't have a counter, you can check it with a general coverage
> > receiver.
> >
> > Alternatively, note the position of C6, (you can access it through the
> > hole in the rear chassis wall, on the left side,) for the adjustment.

> > Using an insulated tool, adjust per the manual, Section 5-9.
> >
> > If this doesn't resolve it, let us know!
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> > Martin Benoit wrote:
> > > Recently i bought a T4XC and it have some big ? problem.
> > > First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and nothing on CW mode ?
> > > on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and 5w on CW mode ?
> > > OK on 40 meters ???
> > > Tnx for help
> > > Martin
> > > VE2EDK
> > > VA2ZO
> >
>
>

3259. RE: [DrakeRadio] T4XC problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 17:14:38 UTC
From: martin.benoit@sympatico.ca
Topic: 221 Message: 3259

Tnx Gary

yes i made a mistake ... better in french language HI!

Best 73!

Martin

VE2EDK Qu?bec city

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Mon, 15 Feb 2010 09:47:10 -0500
Subject: Re: [DrakeRadio] T4XC problem

Martin -

I want to make sure I'm not misleading you because of language differences.

In TUNE mode the XMIT GAIN must be turned Clockwise, and will "top out"
around 40% of full rotation.

The XMIT GAIN must be turned Clockwise to half or three quarters
rotation for CW, further Clockwise on CW!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin Benoit wrote:
> Fine Gary i will check agn for the carr osc.
> The xmit gain is ccw so i will check R104.
> I will clean the specific section on switch.
> Will be back to you soon.
> Tnx Gary
> Martin
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, February 14, 2010 11:48 PM
> Subject: Re: [DrakeRadio] T4XC problem
>
>
>
> Martin -
>

> OK. Sorry, I was thinking TR-4 when I said 9.000 MHz.
>
> The Carrier Osc should be 5.644999. on SSB and 5.645 on CW. Did you try
> the balancing method in the manual Section 5-9? The frequency is VERY
> critical, so unless you have good counter the manual method is best. If
> you visualize the two filters as the "tops" of the letter "M", it's very
> important that the Car Osc be exactly in the "valley" between the two
> humps. The counter or receiver will ensure that it's not outside of the
> humps on either side. C6 only moves the Car Osc a few hundred Hz either
> way.
>
> The method of carrier generation is the same on all bands, so I don't
> know why you would have low output on CW on only ONE band. For CW
> operation, the Car Osc is shifted up about 900 Hz so that it is WITHIN
> one of the humps, and a DC current is applied to the Balanced Modulator
> diode ring to "unbalance" it to generate the carrier that is then
> amplified by the transmit chain. You MAY have to turn the XMIT GAIN
> control considerably higher on 15 and 10M to get enough drive. If the
> XMIT GAIN control has to be advanced much more than 2 o'clock, you may
> have a resistor R104 that has increased in value from age.
>
> It's also possible that dirty switch contacts are limiting the current
> applied to the Bal Mod diodes. The current goes through contacts on the
> rear of the fourth section of the MODE switch. Clean with DeoxIT liquid
> (D100L) only, do not spray and do not use any cotton buds or other tools
> on the contacts. Let the cleaner and rotating the switch through all
> positions do the cleaning. If all you have it DeoxIT or other spray
> cleaner, spray some in a small cap and apply the liquid directly to the
> contacts of the switches.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>
> Martin Benoit wrote:
> > Hello Gary
> > Output is now ok on 80 40 20 2 sidebands idem
> > on 15 130 watts on tune mod and 15 on cw
> > on 28 nothing at all.
> > All switch in the T4XC are very dirty.
> > Carr osc reading 5.645 C6 make nothing and top resistance also no effect.
> > Martin
> > Tnx for your help Gary
> > ----- Original Message -----
> > From: Garey Barrell
> > To: DrakeRadio@yahoogroups.com
> > Sent: Sunday, February 14, 2010 9:53 AM
> > Subject: Re: [DrakeRadio] T4XC problem

> >
> >
> >
> > Martin -
> >
> > First check the Carrier Oscillator frequency. It should be 9.00000 MHz
> > in SSB MODE and 9.0009 or so in CW.
> >
> > If you don't have a counter, you can check it with a general coverage
> > receiver.
> >
> > Alternatively, note the position of C6, (you can access it through the
> > hole in the rear chassis wall, on the left side,) for the adjustment.
> > Using an insulated tool, adjust per the manual, Section 5-9.
> >
> > If this doesn't resolve it, let us know!
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> > Martin Benoit wrote:
> > > Recently i bought a T4XC and it have some big ? problem.
> > > First on 21 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode)) and
nothing on CW mode ?
> > > on 28 and 14 mhz it loads ((125 w on sibedand X and 75 w on the other(tune mode))
and 5w on CW mode ?
> > > OK on 40 meters ???
> > > Tnx for help
> > > Martin
> > > VE2EDK
> > > VA2ZO
> >
>
>

[Non-text portions of this message have been removed]

3260. T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 19:07:50 UTC
From: WINK
Topic: 3260 Message: 3260

My bias voltage has been changing so I decided to monitor it more
closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
a DMM . Knowing it was going to rise I set the Bias to 50mA or
using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
It will run for several days at 50-65 mA and then will rise
one day for no apparant reason to as high as 115 mA. And then later or the next day it will be back down to 50 mA.
I noticed as soon as I hooked up the DMM that there is a resting
current on R59 of between .2-.5 mV with no transmit and the transmitter
in the SEPERATE mode. As long as this resting current stays in that
range the Bias is fine, but then it will rise to as high as 3.5 mV.
Sometimes as a result of transmitting (cw) and sometimes it will just
start to rise on its own.
Any ideas on what is causing this or is it normal?
Thanks
WINK
WA8KOQ

3261. TR-4 noise blanker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 20:41:35 UTC
From: Eric
Topic: 3261 Message: 3261

Hello all.
I have a Tr-4 that doesnt have the 34 PNB board and it has no provisions for the board to be installed. It is the older TR-4 that has the newer VFO knob but no NB switch.
isit possible to install the 34 PNB or some other NB circuit into the TR-4?

3262. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 21:06:39 UTC
From: Richard Knoppow
Topic: 221 Message: 3262

----- Original Message -----
From: "marc k" <techmarc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 14, 2010 8:16 PM
Subject: [DrakeRadio] Wafer epoxy advice

> I've not tried epoxy on a wafer switch, but it should be
> perfect for the job.
>
I cemented a broken wafer switch on a Hammarlund
SP-600. The switch is a small one that is operated by the
band switch in going from single to double conversion. I
cemented it twice, once using super glue and a second time
using fast settng epoxy. Both worked. It glued it twice
because I broke it again. The physical location of the
switch is such as to make it vulnerable. The wafer is made
of Bakelite.
The wafer switches in the Drake RX and TX are larger and
of thinner material so I can't be sure the technique will
work there but it is certainly worth trying.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3263. Re: [DrakeRadio] T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 22:48:45 UTC
From: Garey Barrell
Topic: 3260 Message: 3263

Wink -

Two possibilities come to mind..... Does the transmitter put out 130W
or so in either situation?

If not, there may be a problem with the Screen or Cathode resistors of
one of the Final tubes, since your current ratio is about 2:1.

If it IS working either way, then you probably have a heater/cathode
leak/short in one of the following tubes, V2, V3 or V7. This may be the
cause of your "phantom" current, and when the tube get hotter it shorts
"more better"! There is a hard relay contact to ground the bottom of
the shunt resistor, (R59), so ANY current present is the result of
"leakage" somewhere. You could pull those tubes out one at a time
while you are seeing your phantom current to see if it kills it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> My bias voltage has been changing so I decided to monitor it more
> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
> a DMM . Knowing it was going to rise I set the Bias to 50mA or
> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> It will run for several days at 50-65 mA and then will rise
> one day for no apparant reason to as high as 115 mA. And then later or the next day it
will be back down to 50 mA.
> I noticed as soon as I hooked up the DMM that there is a resting
> current on R59 of between .2-.5 mV with no transmit and the transmitter
> in the SEPERATE mode. As long as this resting current stays in that
> range the Bias is fine, but then it will rise to as high as 3.5 mV.
> Sometimes as a result of transmitting (cw) and sometimes it will just
> start to rise on its own.
> Any ideas on what is causing this or is it normal?
> Thanks
> WINK
> WA8KOQ
>
>
>

3264. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 23:11:18 UTC
From: Paul Kraemer
Topic: 221 Message: 3264

It will work with the 5 minute epoxy if the material is clean and dry and if
you "V" out the cracked line with a Dremel engraving bit to give something
for the epoxy to fill. Also, build it a little thicker and spread out away
from the break.
Paul K0UYA
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 15, 2010 3:06 PM
Subject: Re: [DrakeRadio] Wafer epoxy advice

>
> ----- Original Message -----
> From: "marc k" <techmarc@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, February 14, 2010 8:16 PM
> Subject: [DrakeRadio] Wafer epoxy advice
>
>
>> I've not tried epoxy on a wafer switch, but it should be
>> perfect for the job.
>>
> I cemented a broken wafer switch on a Hammarlund
> SP-600. The switch is a small one that is operated by the
> band switch in going from single to double conversion. I
> cemented it twice, once using super glue and a second time
> using fast settng epoxy. Both worked. It glued it twice
> because I broke it again. The physical location of the
> switch is such as to make it vulnerable. The wafer is made
> of Bakelite.
> The wafer switches in the Drake RX and TX are larger and
> of thinner material so I can't be sure the technique will
> work there but it is certainly worth trying.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>
>

3265. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-15 23:29:56 UTC
From: WINK
Topic: 3260 Message: 3265

Garey,
Yes transmitter puts out 130+ watts either condition.
I will check V2, V3, & V7 and let you know.
Thanks for the tip.
73 Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> Two possibilities come to mind..... Does the transmitter put out 130W
> or so in either situation?
>
> If not, there may be a problem with the Screen or Cathode resistors of
> one of the Final tubes, since your current ratio is about 2:1.
>
> If it IS working either way, then you probably have a heater/cathode
> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> cause of your "phantom" current, and when the tube get hotter it shorts
> "more better"! There is a hard relay contact to ground the bottom of
> the shunt resistor, (R59), so ANY current present is the result of
> "leakage" somewhere. You could pull those tubes out one at a time
> while you are seeing your phantom current to see if it kills it.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> WINK wrote:
> > My bias voltage has been changing so I decided to monitor it more
> > closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
> > a DMM . Knowing it was going to rise I set the Bias to 50mA or
> > using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> > It will run for several days at 50-65 mA and then will rise
> > one day for no apparant reason to as high as 115 mA. And then later or the next day it
will be back down to 50 mA.
> > I noticed as soon as I hooked up the DMM that there is a resting
> > current on R59 of between .2-.5 mV with no transmit and the transmitter
> > in the SEPERATE mode. As long as this resting current stays in that
> > range the Bias is fine, but then it will rise to as high as 3.5 mV.
> > Sometimes as a result of transmitting (cw) and sometimes it will just
> > start to rise on its own.

> > Any ideas on what is causing this or is it normal?
> > Thanks
> > WINK
> > WA8KOQ
> >
> >
> >
>

3266. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 00:59:37 UTC
From: Jim Shorney
Topic: 221 Message: 3266

On Mon, 15 Feb 2010 17:11:18 -0600, Paul Kraemer wrote:

>It will work with the 5 minute epoxy if the material is clean and dry and if
>you "V" out the cracked line with a Dremel engraving bit to give something
>for the epoxy to fill. Also, build it a little thicker and spread out away
>from the break.

Generally speaking, I avoid any kind of "quick-set" epoxy like the plague. It
just doesn't seem to hold up as well over time. Standard overnight cure JB-Weld
is what I use, for all sorts of glue jobs.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3267. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 01:38:40 UTC
From: Paul Kraemer
Topic: 221 Message: 3267

Sorry to be disagreeable but having used both (and many other) adhesives
(many times) when it comes to repair of plastics or composites which include
bakelite, fibreboard, fibreglass etc the 5 minute high strength epoxy is my
repair of choice. It has never failed me when JB has. Plus, I know the epoxy
product will be ok where rf is present.
Usual disclaimers apply
IMHO
YMMV
Paul K0UYA
----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, February 15, 2010 6:59 PM
Subject: Re: [DrakeRadio] Wafer epoxy advice

> On Mon, 15 Feb 2010 17:11:18 -0600, Paul Kraemer wrote:
>
>>It will work with the 5 minute epoxy if the material is clean and dry and
>>if
>>you "V" out the cracked line with a Dremel engraving bit to give something
>>for the epoxy to fill. Also, build it a little thicker and spread out away
>>from the break.
>
>
> Generally speaking, I avoid any kind of "quick-set" epoxy like the plague.
> It
> just doesn't seem to hold up as well over time. Standard overnight cure
> JB-Weld
> is what I use, for all sorts of glue jobs.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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> he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/

> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
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> Yahoo! Groups Links
>
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>

3268. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 03:59:25 UTC
From: Jim Shorney
Topic: 221 Message: 3268

On Mon, 15 Feb 2010 19:38:40 -0600, Paul Kraemer wrote:

>Sorry to be disagreeable but having used both (and many other) adhesives
>(many times) when it comes to repair of plastics or composites which include
>bakelite, fibreboard, fibreglass etc the 5 minute high strength epoxy is my
>repair of choice.

No need to be sorry. YMMV, as they say. I dig quick-set epoxy out of camera housing parts every day at work with a dull exacto knife. And this isn't the cheap hardware store stuff, either. I have also seen it change color and literally peel off of surfaces over the years.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3269. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 04:09:40 UTC
From: Garey Barrell
Topic: 221 Message: 3269

Jim Shorney wrote:
> On Mon, 15 Feb 2010 17:11:18 -0600, Paul Kraemer wrote:
>
>
>> It will work with the 5 minute epoxy if the material is clean and dry and if
>> you "V" out the cracked line with a Dremel engraving bit to give something
>> for the epoxy to fill. Also, build it a little thicker and spread out away
>>
> >from the break.
>
>
> Generally speaking, I avoid any kind of "quick-set" epoxy like the plague. It
> just doesn't seem to hold up as well over time. Standard overnight cure JB-Weld
> is what I use, for all sorts of glue jobs.
>

I agree with you on the "quick-set" epoxy, but isn't JB Weld at least
somewhat conductive? With the black color I would expect some carbon
black is present.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3270. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 04:39:56 UTC
From: Jim Shorney
Topic: 221 Message: 3270

On Mon, 15 Feb 2010 23:09:40 -0500, Garey Barrell wrote:

>I agree with you on the "quick-set" epoxy, but isn't JB Weld at least
>somewhat conductive? With the black color I would expect some carbon
>black is present.

Not sure on that one, Garey. It's possible, although I have not had any problems so far. But I don't generally use it in applications where there is the opportunity for a conductive path anyway, so maybe I just haven't encountered it. I have seen "steel filler" epoxies that do have a metal content, but again, I don't use them on parts with moving electrons.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3271. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 12:29:59 UTC
From: Butch Housman
Topic: 221 Message: 3271

On occasion when I have a small job that needs to be well glued I'll use either the gel or liquid forms of super-glue BUT the trick is to set it immediately w/ "Zip Kicker". It's an accelerator for super-glue products & causes them to cure just abt instantly.

Ur results may vary,

Butch KA4MIC

[Non-text portions of this message have been removed]

3272. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 15:05:39 UTC
From: WINK
Topic: 3260 Message: 3272

Garey,
I pulled V2,V3, and V7 none of them made phantom current go away but
pulling V2 made it go up so I replaced V2. Still have same problem,
Phantom current is there and rises after a while.
Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> Two possibilities come to mind..... Does the transmitter put out 130W
> or so in either situation?
>
> If not, there may be a problem with the Screen or Cathode resistors of
> one of the Final tubes, since your current ratio is about 2:1.
>
> If it IS working either way, then you probably have a heater/cathode
> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> cause of your "phantom" current, and when the tube get hotter it shorts
> "more better"! There is a hard relay contact to ground the bottom of
> the shunt resistor, (R59), so ANY current present is the result of
> "leakage" somewhere. You could pull those tubes out one at a time
> while you are seeing your phantom current to see if it kills it.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> WINK wrote:
> > My bias voltage has been changing so I decided to monitor it more
> > closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
> > a DMM . Knowing it was going to rise I set the Bias to 50mA or
> > using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> > It will run for several days at 50-65 mA and then will rise
> > one day for no apparant reason to as high as 115 mA. And then later or the next day it
will be back down to 50 mA.
> > I noticed as soon as I hooked up the DMM that there is a resting
> > current on R59 of between .2-.5 mV with no transmit and the transmitter
> > in the SEPERATE mode. As long as this resting current stays in that
> > range the Bias is fine, but then it will rise to as high as 3.5 mV.
> > Sometimes as a result of transmitting (cw) and sometimes it will just
> > start to rise on its own.

> > Any ideas on what is causing this or is it normal?
> > Thanks
> > WINK
> > WA8KOQ
> >
> >
> >
>

3273. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 15:15:01 UTC
From: Garey Barrell
Topic: 3260 Message: 3273

Wink -

I missed one, try V4.

I'm still looking....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> Garey,
> I pulled V2,V3, and V7 none of them made phantom current go away but
> pulling V2 made it go up so I replaced V2. Still have same problem,
> Phantom current is there and rises after a while.
> Wink
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Wink -
>>
>> Two possibilities come to mind..... Does the transmitter put out 130W
>> or so in either situation?
>>
>> If not, there may be a problem with the Screen or Cathode resistors of
>> one of the Final tubes, since your current ratio is about 2:1.
>>
>> If it IS working either way, then you probably have a heater/cathode
>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
>> cause of your "phantom" current, and when the tube get hotter it shorts
>> "more better"! There is a hard relay contact to ground the bottom of
>> the shunt resistor, (R59), so ANY current present is the result of
>> "leakage" somewhere. You could pull those tubes out one at a time
>> while you are seeing your phantom current to see if it kills it.
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>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> WINK wrote:
>>

>>> My bias voltage has been changing so I decided to monitor it more
>>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
>>> It will run for several days at 50-65 mA and then will rise
>>> one day for no apparant reason to as high as 115 mA. And then later or the next day it will be back down to 50 mA.
>>> I noticed as soon as I hooked up the DMM that there is a resting
>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
>>> in the SEPERATE mode. As long as this resting current stays in that
>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
>>> Sometimes as a result of transmitting (cw) and sometimes it will just
>>> start to rise on its own.
>>> Any ideas on what is causing this or is it normal?
>>> Thanks
>>> WINK
>>> WA8KOQ
>

3274. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 15:50:57 UTC
From: WINK
Topic: 3260 Message: 3274

Garey-
V4 had no effect on it either.

Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> I missed one, try V4.
>
> I'm still looking....
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> WINK wrote:
> > Garey,
> > I pulled V2,V3, and V7 none of them made phantom current go away but
> > pulling V2 made it go up so I replaced V2. Still have same problem,
> > Phantom current is there and rises after a while.
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> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >> Wink -
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> >> Two possibilities come to mind..... Does the transmitter put out 130W
> >> or so in either situation?
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> >> If not, there may be a problem with the Screen or Cathode resistors of
> >> one of the Final tubes, since your current ratio is about 2:1.
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> >> If it IS working either way, then you probably have a heater/cathode
> >> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> >> cause of your "phantom" current, and when the tube get hotter it shorts
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> >> the shunt resistor, (R59), so ANY current present is the result of
> >> "leakage" somewhere. You could pull those tubes out one at a time
> >> while you are seeing your phantom current to see if it kills it.
> >>

> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
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> >> WINK wrote:
> >>
> >>> My bias voltage has been changing so I decided to monitor it more
> >>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
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> >>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> >>> It will run for several days at 50-65 mA and then will rise
> >>> one day for no apparant reason to as high as 115 mA. And then later or the next day
it will be back down to 50 mA.
> >>> I noticed as soon as I hooked up the DMM that there is a resting
> >>> current on R59 of between .2-.5 mV with no transmit and the transmitter
> >>> in the SEPERATE mode. As long as this resting current stays in that
> >>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
> >>> Sometimes as a result of transmitting (cw) and sometimes it will just
> >>> start to rise on its own.
> >>> Any ideas on what is causing this or is it normal?
> >>> Thanks
> >>> WINK
> >>> WA8KOQ
> >>
>

3275. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:03:57 UTC
From: Garey Barrell
Topic: 3260 Message: 3275

Wink -

Hmmmm. That's not much leakage, but the fact that it increases by an
order of magnitude "sometimes" ....

What happens if you put the TRANSCEIVE switch in SPOT?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> Garey-
> V4 had no effect on it either.
>
> Wink
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Wink -
>>
>> I missed one, try V4.
>>
>> I'm still looking....
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> WINK wrote:
>>
>>> Garey,
>>> I pulled V2,V3, and V7 none of them made phantom current go away but
>>> pulling V2 made it go up so I replaced V2. Still have same problem,
>>> Phantom current is there and rises after a while.
>>> Wink
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Wink -

>>>>
>>>> Two possibilities come to mind..... Does the transmitter put out 130W
>>>> or so in either situation?
>>>>
>>>> If not, there may be a problem with the Screen or Cathode resistors of
>>>> one of the Final tubes, since your current ratio is about 2:1.
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>>>> If it IS working either way, then you probably have a heater/cathode
>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
>>>> cause of your "phantom" current, and when the tube get hotter it shorts
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>>>> "leakage" somewhere. You could pull those tubes out one at a time
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>>>> 73, Garey - K4OAH
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>>>> <www.k4oah.com>
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>>>>> It will run for several days at 50-65 mA and then will rise
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>>>>> I noticed as soon as I hooked up the DMM that there is a resting
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>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
>>>>> start to rise on its own.
>>>>> Any ideas on what is causing this or is it normal?
>>>>> Thanks
>>>>> WINK
>>>>> WA8KOQ
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3276. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:20:01 UTC
From: WINK
Topic: 3260 Message: 3276

If I put it in SPOT or RCVR or XMTR it goes to ZERO ...

Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> Hmmmm. That's not much leakage, but the fact that it increases by an
> order of magnitude "sometimes" ....
>
> What happens if you put the TRANSCEIVE switch in SPOT?
>
> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
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> WINK wrote:
> > Garey-
> > V4 had no effect on it either.
> >
> > Wink
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Wink -
> >>
> >> I missed one, try V4.
> >>
> >> I'm still looking....
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
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> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> WINK wrote:
> >>
> >>> Garey,
> >>> I pulled V2,V3, and V7 none of them made phantom current go away but

> >>> pulling V2 made it go up so I replaced V2. Still have same problem,
> >>> Phantom current is there and rises after a while.
> >>> Wink
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> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >>>
> >>> Wink -
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> >>> Two possibilities come to mind..... Does the transmitter put out 130W
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> >>>
> >>>> My bias voltage has been changing so I decided to monitor it more
> >>>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
> >>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
> >>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> >>>> It will run for several days at 50-65 mA and then will rise
> >>>> one day for no apparant reason to as high as 115 mA. And then later or the next day
it will be back down to 50 mA.
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> >>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
> >>>> in the SEPERATE mode. As long as this resting current stays in that
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> >>>> WINK
> >>>> WA8KOQ

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3277. Re: [DrakeRadio] TR-4 noise blanker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:24:31 UTC
From: Garey Barrell
Topic: 3261 Message: 3277

Eric -

Drake offered the 34-NB Noise Blanker at one time. It consisted of a card almost identical to the PNB-34, along with mounting and installation pieces. It was turned on and off by a lever (similar to the RF GAIN lever) that was located behind the PLATE control knob.

So yes, the 34-PNB "can" be installed by removing the plug at the bottom and mounting it in the same position using brackets. You'd have to figure some way to add a switch somewhere.

The 34-NB manual with installation info is on my TR-4 CD.

Someone has been asking about replicating the 34-(P)NB blanker board, but ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Eric wrote:
> Hello all.
> I have a Tr-4 that doesnt have the 34 PNB board and it has no provisions for the board to be installed. It is the older TR-4 that has the newer VFO knob but no NB switch.
> isit possible to install the 34 PNB or some other NB circuit into the TR-4?
>
>
>

3278. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:30:08 UTC
From: Garey Barrell
Topic: 3260 Message: 3278

OK Try pulling V8.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> If I put it in SPOT or RCVR or XMTR it goes to ZERO ...
>
> Wink
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Wink -
>>
>> Hmmmm. That's not much leakage, but the fact that it increases by an
>> order of magnitude "sometimes" ....
>>
>> What happens if you put the TRANSCEIVE switch in SPOT?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> WINK wrote:
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>>> Garey-
>>> V4 had no effect on it either.
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>>> Wink
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
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>>>> Wink -
>>>>
>>>> I missed one, try V4.
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>>>> I'm still looking....
>>>>
>>>> 73, Garey - K4OAH

>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>>>>
>>>> WINK wrote:
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>>>>
>>>>> Garey,
>>>>> I pulled V2,V3, and V7 none of them made phantom current go away but
>>>>> pulling V2 made it go up so I replaced V2. Still have same problem,
>>>>> Phantom current is there and rises after a while.
>>>>> Wink
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>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>>>> Wink -
>>>>>>
>>>>>> Two possibilities come to mind..... Does the transmitter put out 130W
>>>>>> or so in either situation?
>>>>>>
>>>>>> If not, there may be a problem with the Screen or Cathode resistors of
>>>>>> one of the Final tubes, since your current ratio is about 2:1.
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>>>>>> If it IS working either way, then you probably have a heater/cathode
>>>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
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>>>>>> "more better"! There is a hard relay contact to ground the bottom of
>>>>>> the shunt resistor, (R59), so ANY current present is the result of
>>>>>> "leakage" somewhere. You could pull those tubes out one at a time
>>>>>> while you are seeing your phantom current to see if it kills it.
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>>>>>> WINK wrote:
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>>>>>>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
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>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.

>>>>>>> It will run for several days at 50-65 mA and then will rise
>>>>>>> one day for no apparant reason to as high as 115 mA. And then later or the next day
it will be back down to 50 mA.
>>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
>>>>>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
>>>>>>> in the SEPERATE mode. As long as this resting current stays in that
>>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
>>>>>>> start to rise on its own.
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>>>>>>> Thanks
>>>>>>> WINK
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3279. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:32:34 UTC
From: WINK
Topic: 3260 Message: 3279

Ok I pulled V8 - No change ....

Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> OK Try pulling V8.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
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> WINK wrote:
> > If I put it in SPOT or RCVR or XMTR it goes to ZERO ...
> > >
> > > Wink
> > >
> > > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> > >
> >> Wink -
> >>
> >> Hmmmm. That's not much leakage, but the fact that it increases by an
> >> order of magnitude "sometimes" ....
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> >> What happens if you put the TRANSCEIVE switch in SPOT?
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> >> 73, Garey - K4OAH
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> >> WINK wrote:
> >>
> >>> Garey-
> >>> V4 had no effect on it either.
> >>>
> >>> Wink
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>

> >>>
> >>>> Wink -
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> >>>> I missed one, try V4.
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> >>>> 73, Garey - K4OAH
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> >>>> WINK wrote:
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> >>>>> Garey,
> >>>>> I pulled V2,V3, and V7 none of them made phantom current go away but
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> >>>>>> Wink -
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> >>>>>> while you are seeing your phantom current to see if it kills it.
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> >>>>>> 73, Garey - K4OAH
> >>>>>> Glen Allen, VA
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> >>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>> <www.k4oah.com>
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> >>>>>> WINK wrote:
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> >>>>>>
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> >>>>>>> It will run for several days at 50-65 mA and then will rise
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> >>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
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> >>>>>>> in the SEPERATE mode. As long as this resting current stays in that
> >>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
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3280. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:42:05 UTC
From: Garey Barrell
Topic: 3260 Message: 3280

There is so much confusion in the switching for the TRANSCEIVE and MODE switches it's hard to follow. In SPOT position the cathode circuitry for V2 and V3 is disconnected. Possibly a leaky bypass cap on one of their cathode wiring.

I'll have to study some more......

Try different positions of the MODE switch to see if that has any effect......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> Ok I pulled V8 - No change ....
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> Wink
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
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>> OK Try pulling V8.
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>>>> order of magnitude "sometimes" ....
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>>>> 73, Garey - K4OAH
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>>>>>>>>>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
>>>>>>>>>>>>>>> It will run for several days at 50-65 mA and then will rise
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>>>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
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>>>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
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>>>>>>>>>>>>>>> WINK
>>>>>>>>>>>>>>> WA8KOQ
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3281. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 16:47:13 UTC
From: WINK
Topic: 3260 Message: 3281

Changing the MODE has no effect on it either.

Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> There is so much confusion in the switching for the TRANSCEIVE and MODE
> switches it's hard to follow. In SPOT position the cathode circuitry
> for V2 and V3 is disconnected. Possibly a leaky bypass cap on one of
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> I'll have to study some more......
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> Try different positions of the MODE switch to see if that has any
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> >>>>>>>>> WINK
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3282. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 18:06:34 UTC
From: Garey Barrell
Topic: 3260 Message: 3282

Wink -

Do you have my CD for the C-Line?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

WINK wrote:
> Changing the MODE has no effect on it either.
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
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>> I'll have to study some more......
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3283. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 18:15:10 UTC
From: WINK
Topic: 3260 Message: 3283

YES I DO !!!!

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wink -
>
> Do you have my CD for the C-Line?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
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3284. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 18:23:29 UTC
From: Garey Barrell
Topic: 3260 Message: 3284

OK. Look at board T7. There is a terminal at the top edge of the board
with a wire to it, and with R28 and R34 right under it.

Lift that wire from the terminal and see if that drops the phantom
current. This lead is the common line for stages V2 and V3 and will
tell us if the leakage is there. TRANSCEIVE switch in SPOT,

WINK wrote:
> YES I DO !!!!
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Wink -
>>
>> Do you have my CD for the C-Line?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
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>>
>> WINK wrote:
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>>> Changing the MODE has no effect on it either.
>>>
>>> Wink
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>> There is so much confusion in the switching for the TRANSCEIVE and MODE
>>>> switches it's hard to follow. In SPOT position the cathode circuitry
>>>> for V2 and V3 is disconnected. Possibly a leaky bypass cap on one of
>>>> their cathode wiring.
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>>>> I'll have to study some more......
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>>>> Try different positions of the MODE switch to see if that has any
>>>> effect......
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>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
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>>>>>>>>>>>> If it IS working either way, then you probably have a heater/cathode
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>>>>>>>>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
>>>>>>>>>>>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
>>>>>>>>>>>>> in the SEPERATE mode. As long as this resting current stays in that
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>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
>>>>>>>>>>>>> start to rise on its own.
>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
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3285. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 19:12:04 UTC
From: WINK
Topic: 3260 Message: 3285

There were two wires to that terminal, lifted them and voltage is
still there and higher. It goes to ZERO when on SPOT
same as before.

Wink

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> OK. Look at board T7. There is a terminal at the top edge of the board
> with a wire to it, and with R28 and R34 right under it.
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3286. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 20:02:35 UTC
From: Garey Barrell
Topic: 3260 Message: 3286

Did you separate the two wires from each other?

Check with an ohmmeter from Pin 2 of V7

WINK wrote:
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> still there and higher. It goes to ZERO when on SPOT
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3287. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 20:18:33 UTC
From: WINK
Topic: 3260 Message: 3287

Yes I did separate the two wires.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Did you separate the two wires from each other?
>
> Check with an ohmmeter from Pin 2 of V7
>
> WINK wrote:
> > There were two wires to that terminal, lifted them and voltage is
> > still there and higher. It goes to ZERO when on SPOT
> > same as before.
> >
> > Wink
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >> OK. Look at board T7. There is a terminal at the top edge of the board
> >> with a wire to it, and with R28 and R34 right under it.
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> >> Lift that wire from the terminal and see if that drops the phantom
> >> current. This lead is the common line for stages V2 and V3 and will
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> >>> YES I DO !!!!
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> >>>
> >>>> Wink -
> >>>>
> >>>> Do you have my CD for the C-Line?
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
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> >>>>> Changing the MODE has no effect on it either.
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> >>>>>> I'll have to study some more......
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> >>>>>>>>>>>>>> If not, there may be a problem with the Screen or Cathode resistors of
> >>>>>>>>>>>>>> one of the Final tubes, since your current ratio is about 2:1.
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> >>>>>>>>>>>>>> If it IS working either way, then you probably have a heater/cathode
> >>>>>>>>>>>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> >>>>>>>>>>>>>> cause of your "phantom" current, and when the tube get hotter it shorts
> >>>>>>>>>>>>>> "more better"! There is a hard relay contact to ground the bottom of
> >>>>>>>>>>>>>> the shunt resistor, (R59), so ANY current present is the result of
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> >>>>>>>>>>>>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
> >>>>>>>>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> >>>>>>>>>>>>>> It will run for several days at 50-65 mA and then will rise
> >>>>>>>>>>>>>> one day for no apparant reason to as high as 115 mA. And then later or
the next day it will be back down to 50 mA.
> >>>>>>>>>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
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> >>>>>>>>>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
> >>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
> >>>>>>>>>>>>>> start to rise on its own.
> >>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
> >>>>>>>>>>>>>> Thanks
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3288. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 20:29:35 UTC
From: WINK
Topic: 3260 Message: 3288

What should I get on Pin 2 of V7 ?

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Did you separate the two wires from each other?
>
> Check with an ohmmeter from Pin 2 of V7
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> WINK wrote:
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> > still there and higher. It goes to ZERO when on SPOT
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> >> Lift that wire from the terminal and see if that drops the phantom
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> >> WINK wrote:
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> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >>>
> >>>> Wink -
> >>>>
> >>>> Do you have my CD for the C-Line?
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
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> >>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> >>>>>>>>>>>>>> Wink -
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> >>>>>>>>>>>>>> Two possibilities come to mind..... Does the transmitter put out 130W
> >>>>>>>>>>>>>> or so in either situation?
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> >>>>>>>>>>>>>> If not, there may be a problem with the Screen or Cathode resistors of
> >>>>>>>>>>>>>> one of the Final tubes, since your current ratio is about 2:1.
> >>>>>>>>>>>>>>
> >>>>>>>>>>>>>> If it IS working either way, then you probably have a heater/cathode
> >>>>>>>>>>>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> >>>>>>>>>>>>>> cause of your "phantom" current, and when the tube get hotter it shorts
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> >>>>>>>>>>>>>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
> >>>>>>>>>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> >>>>>>>>>>>>>>> It will run for several days at 50-65 mA and then will rise
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> >>>>>>>>>>>>>>> in the SEPERATE mode. As long as this resting current stays in that
> >>>>>>>>>>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
> >>>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
> >>>>>>>>>>>>>>> start to rise on its own.
> >>>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
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3289. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 21:05:27 UTC
From: Garey Barrell
Topic: 3260 Message: 3289

Unless I'm missing something, (quite possible, my eyes are crossing!,)
you should read "open". Whatever you read, switch from SPOT to any
other position to see what happens.

WINK wrote:
> What should I get on Pin 2 of V7 ?
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Did you separate the two wires from each other?
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>> Check with an ohmmeter from Pin 2 of V7
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>> WINK wrote:
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>>> There were two wires to that terminal, lifted them and voltage is
>>> still there and higher. It goes to ZERO when on SPOT
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>> OK. Look at board T7. There is a terminal at the top edge of the board
>>>> with a wire to it, and with R28 and R34 right under it.
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>>>> Lift that wire from the terminal and see if that drops the phantom
>>>> current. This lead is the common line for stages V2 and V3 and will
>>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
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>>>>>> Wink -
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>>>>>> Do you have my CD for the C-Line?
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>>>>>> 73, Garey - K4OAH

>>>>>> Glen Allen, VA
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>>>>>>> Changing the MODE has no effect on it either.
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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> pulling V2 made it go up so I replaced V2. Still have same problem,
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> Phantom current is there and rises after a while.
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> Wink
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>> Wink -
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>> Two possibilities come to mind..... Does the transmitter put out 130W

>>>>>>>>>>>>>>>> or so in either situation?
>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>> If not, there may be a problem with the Screen or Cathode resistors of
>>>>>>>>>>>>>>>> one of the Final tubes, since your current ratio is about 2:1.
>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>> If it IS working either way, then you probably have a heater/cathode
>>>>>>>>>>>>>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
>>>>>>>>>>>>>>>> cause of your "phantom" current, and when the tube get hotter it shorts
>>>>>>>>>>>>>>>> "more better"! There is a hard relay contact to ground the bottom of
>>>>>>>>>>>>>>>> the shunt resistor, (R59), so ANY current present is the result of
>>>>>>>>>>>>>>>> "leakage" somewhere. You could pull those tubes out one at a time
>>>>>>>>>>>>>>>> while you are seeing your phantom current to see if it kills it.
>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>> 73, Garey - K4OAH
>>>>>>>>>>>>>>>> Glen Allen, VA
>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>>>>>>>>>>>>>> <www.k4oah.com>
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>>>>>>>>>>>>>>>> WINK wrote:
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>>>>>>>>>>>>>>>>>>>> My bias voltage has been changing so I decided to monitor it more
>>>>>>>>>>>>>>>>>>>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
>>>>>>>>>>>>>>>>>>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
>>>>>>>>>>>>>>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
>>>>>>>>>>>>>>>>>>>> It will run for several days at 50-65 mA and then will rise
>>>>>>>>>>>>>>>>>>>> one day for no apparant reason to as high as 115 mA. And then later or
the next day it will be back down to 50 mA.
>>>>>>>>>>>>>>>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
>>>>>>>>>>>>>>>>>>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
>>>>>>>>>>>>>>>>>>>> in the SEPERATE mode. As long as this resting current stays in that
>>>>>>>>>>>>>>>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
>>>>>>>>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
>>>>>>>>>>>>>>>>>>>> start to rise on its own.
>>>>>>>>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
>>>>>>>>>>>>>>>>>>>> Thanks
>>>>>>>>>>>>>>>>>>>> WINK
>>>>>>>>>>>>>>>>>>>> WA8KOQ
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3290. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 21:18:40 UTC
From: WINK
Topic: 3260 Message: 3290

Yes, It reads open. Now NEW PROBLEM Transmitter keys itself
unless I set CW Delay to MINIMUM.
Wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Unless I'm missing something, (quite possible, my eyes are crossing!,)
> you should read "open". Whatever you read, switch from SPOT to any
> other position to see what happens.
>
> WINK wrote:
> > What should I get on Pin 2 of V7 ?
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Did you separate the two wires from each other?
> >>
> >> Check with an ohmmeter from Pin 2 of V7
> >>
> >> WINK wrote:
> >>
> >>> There were two wires to that terminal, lifted them and voltage is
> >>> still there and higher. It goes to ZERO when on SPOT
> >>> same as before.
> >>>
> >>> Wink
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>
> >>>
> >>>> OK. Look at board T7. There is a terminal at the top edge of the board
> >>>> with a wire to it, and with R28 and R34 right under it.
> >>>>
> >>>> Lift that wire from the terminal and see if that drops the phantom
> >>>> current. This lead is the common line for stages V2 and V3 and will
> >>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
> >>>>
> >>>> WINK wrote:
> >>>>
> >>>>
> >>>>> YES I DO !!!!
> >>>>>
> >>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>
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> >>>>>
> >>>>>> Wink -
> >>>>>>
> >>>>>> Do you have my CD for the C-Line?
> >>>>>>
> >>>>>> 73, Garey - K4OAH
> >>>>>> Glen Allen, VA
> >>>>>>
> >>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>> <www.k4oah.com>
> >>>>>>
> >>>>>>
> >>>>>> WINK wrote:
> >>>>>>
> >>>>>>
> >>>>>>
> >>>>>>> Changing the MODE has no effect on it either.
> >>>>>>>
> >>>>>>> Wink
> >>>>>>>
> >>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>> There is so much confusion in the switching for the TRANSCEIVE and MODE
> >>>>>>>> switches it's hard to follow. In SPOT position the cathode circuitry
> >>>>>>>> for V2 and V3 is disconnected. Possibly a leaky bypass cap on one of
> >>>>>>>> their cathode wiring.
> >>>>>>>>
> >>>>>>>> I'll have to study some more......
> >>>>>>>>
> >>>>>>>> Try different positions of the MODE switch to see if that has any
> >>>>>>>> effect......
> >>>>>>>>
> >>>>>>>> 73, Garey - K4OAH
> >>>>>>>> Glen Allen, VA
> >>>>>>>>
> >>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>>>> <www.k4oah.com>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>> WINK wrote:
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>
> >>>>>>>>> Ok I pulled V8 - No change ....
> >>>>>>>>>
> >>>>>>>>> Wink

> >>>>>>>>>
> >>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>>>
> >>>>>>>>>
> >>>>>>>>>
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> >>>>>>>>>
> >>>>>>>>>> OK Try pulling V8.
> >>>>>>>>>>
> >>>>>>>>>> 73, Garey - K4OAH
> >>>>>>>>>> Glen Allen, VA
> >>>>>>>>>>
> >>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>>>>>> <www.k4oah.com>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>> WINK wrote:
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>
> >>>>>>>>>>> If I put it in SPOT or RCVR or XMTR it goes to ZERO ...
> >>>>>>>>>>>
> >>>>>>>>>>> Wink
> >>>>>>>>>>>
> >>>>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>>>>>
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> >>>>>>>>>>>> Wink -
> >>>>>>>>>>>>
> >>>>>>>>>>>> Hmmmm. That's not much leakage, but the fact that it increases by an
> >>>>>>>>>>>> order of magnitude "sometimes" ....
> >>>>>>>>>>>>
> >>>>>>>>>>>> What happens if you put the TRANSCEIVE switch in SPOT?
> >>>>>>>>>>>>
> >>>>>>>>>>>> 73, Garey - K4OAH
> >>>>>>>>>>>> Glen Allen, VA
> >>>>>>>>>>>>
> >>>>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>>>>>>>> <www.k4oah.com>
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> >>>>>>>>>>>> WINK wrote:
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> >>>>>>>>>>>>>> Garey-
> >>>>>>>>>>>>>> V4 had no effect on it either.
> >>>>>>>>>>>>>>
> >>>>>>>>>>>>>> Wink
> >>>>>>>>>>>>>>
> >>>>>>>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>>>>>>>>
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> >>>>>>>>>>>>>>> Wink -
> >>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>> I missed one, try V4.
> >>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>> I'm still looking....
> >>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>> 73, Garey - K4OAH
> >>>>>>>>>>>>>>> Glen Allen, VA
> >>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> >>>>>>>>>>>>>>> WINK wrote:
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> >>>>>>>>>>>>>>>>> Garey,
> >>>>>>>>>>>>>>>>> I pulled V2,V3, and V7 none of them made phantom current go away but
> >>>>>>>>>>>>>>>>> pulling V2 made it go up so I replaced V2. Still have same problem,
> >>>>>>>>>>>>>>>>> Phantom current is there and rises after a while.
> >>>>>>>>>>>>>>>>> Wink
> >>>>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >>>>>>>>>>>>>>>>> Wink -
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> >>>>>>>>>>>>>>>>> Two possibilities come to mind..... Does the transmitter put out 130W
> >>>>>>>>>>>>>>>>> or so in either situation?
> >>>>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>>>> If not, there may be a problem with the Screen or Cathode resistors of
> >>>>>>>>>>>>>>>>> one of the Final tubes, since your current ratio is about 2:1.
> >>>>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>>>> If it IS working either way, then you probably have a heater/cathode
> >>>>>>>>>>>>>>>>> leak/short in one of the following tubes, V2, V3 or V7. This may be the
> >>>>>>>>>>>>>>>>> cause of your "phantom" current, and when the tube get hotter it shorts
> >>>>>>>>>>>>>>>>> "more better"! There is a hard relay contact to ground the bottom of
> >>>>>>>>>>>>>>>>> the shunt resistor, (R59), so ANY current present is the result of
> >>>>>>>>>>>>>>>>> "leakage" somewhere. You could pull those tubes out one at a time
> >>>>>>>>>>>>>>>>> while you are seeing your phantom current to see if it kills it.
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> >>>>>>>>>>>>>>>>> 73, Garey - K4OAH
> >>>>>>>>>>>>>>>>> Glen Allen, VA
> >>>>>>>>>>>>>>>>>
> >>>>>>>>>>>>>>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>>>>>>>>>>>>>>> <www.k4oah.com>
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> >>>>>>>>>>>>>>>>> WINK wrote:
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> >>>>>>>>>>>>>>>>>> My bias voltage has been changing so I decided to monitor it more
> >>>>>>>>>>>>>>>>>> closely. I ran wires outboard from R59 (new 3.3 ohm resistor)to
> >>>>>>>>>>>>>>>>>> a DMM . Knowing it was going to rise I set the Bias to 50mA or
> >>>>>>>>>>>>>>>>>> using the formula (.050 x 3.3=.165 VDC) OR 165 Mv.
> >>>>>>>>>>>>>>>>>> It will run for several days at 50-65 mA and then will rise
> >>>>>>>>>>>>>>>>>> one day for no apparant reason to as high as 115 mA. And then later or
the next day it will be back down to 50 mA.
> >>>>>>>>>>>>>>>>>> I noticed as soon as I hooked up the DMM that there is a resting
> >>>>>>>>>>>>>>>>>> current on R59 of between .2-.5 mV with no transmit and the transmitter
> >>>>>>>>>>>>>>>>>> in the SEPERATE mode. As long as this resting current stays in that
> >>>>>>>>>>>>>>>>>> range the Bias is fine, but then it will rise to as high as 3.5 mV.
> >>>>>>>>>>>>>>>>>> Sometimes as a result of transmitting (cw) and sometimes it will just
> >>>>>>>>>>>>>>>>>> start to rise on its own.
> >>>>>>>>>>>>>>>>>> Any ideas on what is causing this or is it normal?
> >>>>>>>>>>>>>>>>>> Thanks

> >>>>>>>>>>>>>>>>> WINK
> >>>>>>>>>>>>>>>>> WA8KOQ
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3291. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 21:40:40 UTC
From: Garey Barrell
Topic: 3260 Message: 3291

Have you replaced C107?

WINK wrote:
> Yes, It reads open. Now NEW PROBLEM Transmitter keys itself
> unless I set CW Delay to MINIMUM.
> Wink
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Unless I'm missing something, (quite possible, my eyes are crossing!,)
>> you should read "open". Whatever you read, switch from SPOT to any
>> other position to see what happens.
>>
>> WINK wrote:
>>
>>> What should I get on Pin 2 of V7 ?
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Did you separate the two wires from each other?
>>>>
>>>> Check with an ohmmeter from Pin 2 of V7
>>>>
>>>> WINK wrote:
>>>>
>>>>
>>>>> There were two wires to that terminal, lifted them and voltage is
>>>>> still there and higher. It goes to ZERO when on SPOT
>>>>> same as before.
>>>>>
>>>>> Wink
>>>>>
>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>>>
>>>>>
>>>>>
>>>>>> OK. Look at board T7. There is a terminal at the top edge of the board
>>>>>> with a wire to it, and with R28 and R34 right under it.
>>>>>>
>>>>>> Lift that wire from the terminal and see if that drops the phantom
>>>>>> current. This lead is the common line for stages V2 and V3 and will
>>>>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
>>>>>>
>>>>>> WINK wrote:

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>>>>>>> YES I DO !!!!
>>>>>>>
>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>>>>>> Wink -
>>>>>>>>
>>>>>>>> Do you have my CD for the C-Line?
>>>>>>>>
>

3292. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 21:42:07 UTC
From: WINK
Topic: 3260 Message: 3292

Yes replaced C107 with a can from Hayseed Hamfest.
wink

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Have you replaced C107?
>
> WINK wrote:
> > Yes, It reads open. Now NEW PROBLEM Transmitter keys itself
> > unless I set CW Delay to MINIMUM.
> > Wink
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Unless I'm missing something, (quite possible, my eyes are crossing!,)
> >> you should read "open". Whatever you read, switch from SPOT to any
> >> other position to see what happens.
> >>
> >> WINK wrote:
> >>
> >>> What should I get on Pin 2 of V7 ?
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>
> >>>
> >>>> Did you separate the two wires from each other?
> >>>>
> >>>> Check with an ohmmeter from Pin 2 of V7
> >>>>
> >>>> WINK wrote:
> >>>>
> >>>>
> >>>>> There were two wires to that terminal, lifted them and voltage is
> >>>>> still there and higher. It goes to ZERO when on SPOT
> >>>>> same as before.
> >>>>>
> >>>>> Wink
> >>>>>
> >>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>
> >>>>>
> >>>>>
> >>>>>> OK. Look at board T7. There is a terminal at the top edge of the board
> >>>>>> with a wire to it, and with R28 and R34 right under it.
> >>>>>>

> >>>>>> Lift that wire from the terminal and see if that drops the phantom
> >>>>>> current. This lead is the common line for stages V2 and V3 and will
> >>>>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
> >>>>>>
> >>>>>> WINK wrote:
> >>>>>>
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> >>>>>>
> >>>>>>> YES I DO !!!!
> >>>>>>>
> >>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>> Wink -
> >>>>>>>>
> >>>>>>>> Do you have my CD for the C-Line?
> >>>>>>>>
> >
>

3293. Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 22:37:04 UTC
From: WINK
Topic: 3260 Message: 3293

Well, Garey I'm going to have to get back to it Thursday. I sure thank
you for all the help today. I sure would like to know what changed
and now it chatters and keys itself if the CW DELAY is above minimum
---But I still want to fix the Bias problem too. -- Let's both
think on it a couple of days and I'll get back to you on Thursday.
Thanks a million
73 - WINK WA8KOQ

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Have you replaced C107?
>
> WINK wrote:
> > Yes, It reads open. Now NEW PROBLEM Transmitter keys itself
> > unless I set CW Delay to MINIMUM.
> > Wink
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Unless I'm missing something, (quite possible, my eyes are crossing!,)
> >> you should read "open". Whatever you read, switch from SPOT to any
> >> other position to see what happens.
> >>
> >> WINK wrote:
> >>
> >>> What should I get on Pin 2 of V7 ?
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>
> >>>
> >>>> Did you separate the two wires from each other?
> >>>>
> >>>> Check with an ohmmeter from Pin 2 of V7
> >>>>
> >>>> WINK wrote:
> >>>>
> >>>>
> >>>>> There were two wires to that terminal, lifted them and voltage is
> >>>>> still there and higher. It goes to ZERO when on SPOT
> >>>>> same as before.
> >>>>>
> >>>>> Wink
> >>>>>
> >>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>

> >>>>>
> >>>>>
> >>>>>> OK. Look at board T7. There is a terminal at the top edge of the board
> >>>>>> with a wire to it, and with R28 and R34 right under it.
> >>>>>>
> >>>>>> Lift that wire from the terminal and see if that drops the phantom
> >>>>>> current. This lead is the common line for stages V2 and V3 and will
> >>>>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
> >>>>>>
> >>>>>> WINK wrote:
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> >>>>>>
> >>>>>>> YES I DO !!!!
> >>>>>>>
> >>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>
> >>>>>>>> Wink -
> >>>>>>>>
> >>>>>>>> Do you have my CD for the C-Line?
> >>>>>>>>
> >
>

3294. Re: [DrakeRadio] Re: T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-16 22:59:04 UTC
From: Garey Barrell
Topic: 3260 Message: 3294

Wink -

OK. I assume you have reconnected the things we disconnected today?
The relay tube is biased off by a negative voltage from the BIAS supply,
and turned on by rectifying the sidetone and charging a capacitor to a
positive potential to turn it on. If the GAIN is turned too high, or
the ANTI-VOX is too low it can cause that.

Just keep telling yourself; "We do this for fun!", "We do this for
fun!", "We do this for FUN!" :-)

73, Garey - K4OAH
Glen Allen, VA

WINK wrote:
> Well, Garey I'm going to have to get back to it Thursday. I sure thank
> you for all the help today. I sure would like to know what changed
> and now it chatters and keys itself if the CW DELAY is above minimum
> ---But I still want to fix the Bias problem too. -- Let's both
> think on it a couple of days and I'll get back to you on Thursday.
> Thanks a million
> 73 - WINK WA8KOQ
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Have you replaced C107?
>>
>> WINK wrote:
>>
>>> Yes, It reads open. Now NEW PROBLEM Transmitter keys itself
>>> unless I set CW Delay to MINIMUM.
>>> Wink
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> Unless I'm missing something, (quite possible, my eyes are crossing!,)
>>>> you should read "open". Whatever you read, switch from SPOT to any
>>>> other position to see what happens.
>>>>
>>>> WINK wrote:
>>>>
>>>>
>>>>> What should I get on Pin 2 of V7 ?
>>>>>
>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:

>>>>>
>>>>>
>>>>>
>>>>>> Did you separate the two wires from each other?
>>>>>>
>>>>>> Check with an ohmmeter from Pin 2 of V7
>>>>>>
>>>>>> WINK wrote:
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>>>>>>
>>>>>>> There were two wires to that terminal, lifted them and voltage is
>>>>>>> still there and higher. It goes to ZERO when on SPOT
>>>>>>> same as before.
>>>>>>>
>>>>>>> Wink
>>>>>>>
>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>>>>>> OK. Look at board T7. There is a terminal at the top edge of the board
>>>>>>>> with a wire to it, and with R28 and R34 right under it.
>>>>>>>>
>>>>>>>> Lift that wire from the terminal and see if that drops the phantom
>>>>>>>> current. This lead is the common line for stages V2 and V3 and will
>>>>>>>> tell us if the leakage is there. TRANSCEIVE switch in SPOT,
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>>>>>>>> WINK wrote:
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>>>>>>>>> YES I DO !!!!
>>>>>>>>>
>>>>>>>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>> Wink -
>>>>>>>>>>
>>>>>>>>>> Do you have my CD for the C-Line?
>

3295. Re: [DrakeRadio] Wafer epoxy advice

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-17 02:41:02 UTC
From: Jim K5JG
Topic: 221 Message: 3295

Butch,

You might want to check the date on your computer. Your email has a date stamp of 3/16/2010, one month in the future! :)

73, Jim K5JG

Butch Housman wrote:
> On occasion when I have a small job that needs to be well glued I'll use either the gel or liquid forms of super-glue BUT the trick is to set it immediately w/ "Zip Kicker". It's an accelerator for super-glue products & causes them to cure just abt instantly.
>
> Ur results may vary,
>
> Butch KA4MIC
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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3296. T-4XC BIAS CHANGING

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-18 16:18:31 UTC
From: WINK
Topic: 3260 Message: 3296

Garey- The phantom voltage is still there and I can't get the relay
to stop pulling in no matter where I set VOX Gain or Anti Vox. The only thing that stops it is pulling V7 or V10. But replacing them with new tubes does nothing. I don't know what I have done.
I re-checked V7 pin 2 and get 24.2 vdc on it.
That's where I'm at now.
WINK
WA8KOQ

3297. TR7 INFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 04:31:09 UTC
From: w1fued@sbcglobal.net
Topic: 3297 Message: 3297

DOES ANYONE KNOW THE VALUE OF THE POTS FOR THE RF GAIN AND AF GAIN CONTROL ON A TR7?

RF GAIN POT IS SHOT.....and nothing in manual, dont have service manual yet.

Any suggestions where where I might find one?
Thanks, Ed

3298. Re: [DrakeRadio] TR7 INFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 04:59:36 UTC
From: Jim Shorney
Topic: 3297 Message: 3298

AF = 3K audio taper
RF = 10K

The bad news is these parts are unobtanium. You will have to "roll your own" by finding a similar pot and doing some re-assembly, unless you can find one from an e-Pay radio killer. Are you sure the pot us bad, or perhaps just dirty? Or maybe dirty/oxidized Molex pins on the 2nd IF/AF board.

Google can find you the service manual.

73

-Jim

On Fri, 19 Feb 2010 04:31:09 -0000, w1fued@... wrote:

>DOES ANYONE KNOW THE VALUE OF THE POTS FOR THE RF GAIN AND AF GAIN CONTROL ON A TR7?
>
>RF GAIN POT IS SHOT.....and nothing in manual, dont have service manual yet.
>
>Any suggestions where where I might find one?
>Thanks, Ed
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3299. Re: [DrakeRadio] TR7 INFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 05:04:34 UTC
From: Larry Taft
Topic: 3297 Message: 3299

RF pot 10K linear taper AF pot 3K audio logarithmic taper
Weird that the RF pot is worn out, usually the audio goes first.

I think the pots are CTS. I've bought CTS pots from Antique Electronic
Supply (Tubes and Such) and taken them apart to get the element.

Larry K2LT
drakerepair.com

w1fued@... wrote:
> DOES ANYONE KNOW THE VALUE OF THE POTS FOR THE RF GAIN AND AF GAIN CONTROL ON A TR7?
>
> RF GAIN POT IS SHOT.....and nothing in manual, dont have service manual yet.
>
> Any suggestions where where I might find one?
> Thanks, Ed
>
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> ------------------------------------
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> Yahoo! Groups Links
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3300. T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 13:29:00 UTC
From: Steve
Topic: 3300 Message: 3300

Hi - can anyone tell me the implications of an incorrect carrier balance setting? My T-4XC puts out about 130W on 20M on tune, about 350 mA plate current. All seems ok, but I get weak reports on 20m (and higher frequencies) - weaker than with my FT-847 at 100W. In general, if I'm receiving a station below about S5, he will not hear my call on the T-4XC, but will with the Yaesu.(I generally receive reciprocal reports with the Yaesu).

I'm using the Shure 444 mic, all seems ok, except when I check for carrier balance on a nearby receiver, I do get an S9 carrier coming through about 1.5 kHz above the tx frequency when on LSB - this with the tx gain control turned fully CCW.

The audio sounds ok on a remote rx.I have checked for splatter and spurious transmissions, both seem ok, but I am just using another rx in the shack for this. I would say the splatter is wider than on my FT-847, but no more than a couple of kcs and that's with a receiver right here on the bench with the tx.

When the mic is keyed in the above test (LSB, gain fully CCW), there is negligible output power. (I can see no deflection on the 20W scale on my old FC-102 ATU power meter).

I'm using an AADE digital frequency display and this works well, showing exactly 5465 kcs when the preselector is off-tuned (using both rx and tx PTO controls). On the higher frequencies, the digital display loses the signal when transmitting SSB, with the digits changing apparently randomly. It stays stable in 'tune'.

The poor signal reports happen when I operate in the 'separate' mode as well as in the transceive modes.

I'm reluctant to open up and start making adjustments unless I'm sure I have to, hi. If anyone has had a similar experience or can advise on the apparent poor reports, or the question of carrier balance, it would be very helpful.

Thanks and 73,

Steve MW0KST

3301. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 14:30:51 UTC
From: captcurt2000
Topic: 3300 Message: 3301

Hi Steve:

Well..the implication is that energy that should be going into your voice component of the siganl is not..instead it is being sent as carrier.

The carrier balance adjustment is easily upset by vibration or moving the rig around over time so I find I have to do it a couple of times a season.

I do it by listening on a monitor rx like you are doing. (Dummy load) and you don't need to load up to much power. Turn the mic switch off or mic gain all the way down. I use headphones and adjust the car adj pot and its trimmer cap alternately for the least carrier signal. It is a fine adjustment and once you get close, is very touchy. Alternative is to do it using a dummy load with a scope or voltmeter on the output.

I use the AADE digital readout on my A and B versions also. Works ALMOST...on Above 20M it is iffy..suspect it needs a little more signal. I have a small amp to install from idiom press I think that might help.

Mine also does the random digitts when in transmit..I think it is RF getting to the display unit tho..try bypassing any power leads and a ferrite bead on the rf cable.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@...> wrote:
>
> Hi - can anyone tell me the implications of an incorrect carrier balance setting? My T-4XC puts out about 130W on 20M on tune, about 350 mA plate current. All seems ok, but I get weak reports on 20m (and higher frequencies) - weaker than with my FT-847 at 100W. In general, if I'm receiving a station below about S5, he will not hear my call on the T-4XC, but will with the Yaesu.(I generally receive reciprocal reports with the Yaesu).
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> I'm using the Shure 444 mic, all seems ok, except when I check for carrier balance on a nearby receiver, I do get an S9 carrier coming through about 1.5 kHz above the tx frequency when on LSB - this with the tx gain control turned fully CCW.
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> The audio sounds ok on a remote rx.I have checked for splatter and spurious transmissions, both seem ok, but I am just using another rx in the shack for this. I would say the splatter is wider than on my FT-847, but no more than a couple of kcs and that's with a receiver right here on the bench with the tx.
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changing apparently randomly. It stays stable in 'tune'.
>
> The poor signal reports happen when I operate in the 'separate' mode as well as in the transceive modes.
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> I'm reluctant to open up and start making adjustments unless I'm sure I have to, hi. If anyone has had a similar experience or can advise on the apparent poor reports, or the question of carrier balance, it would be very helpful.
>
> Thanks and 73,
>
> Steve MW0KST
>

3302. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 16:07:56 UTC
From: Steve
Topic: 3300 Message: 3302

Hi Curt,

Thanks for this - ok, if I should be getting almost zero carrier in SSB transmit with the tx gain turned fully CCW, it needs attention. On 80m, my signal reports are good, but hard to tell as when the band is open, nearly all signals are 59+, hi.

Am I right in thinking the carrier balance is not frequency sensitive? I.e. once set for say 20m, it will be good for the other bands too?

Tks also for the comments re the AADE display - good to see I'm not alone in this. I had thought of making up new inj cables, or adjusting the inj trimmers. Again, my C-Line is way to nice for me to be tinkering with its insides without proper 'instructions'!

Much appreciated,

73, Steve
MW0KST

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Hi Steve:
>
> Well..the implication is that energy that should be going into your voice component of the siganl is not..instead it is being sent as carrier.
>
> The carrier balance adjustment is easily upset by vibration or moving the rig around over time so I find I have to do it a couple of times a season.
>
> I do it by listening on a monitor rx like you are doing. (Dummy load) and you don't need to load up to much power. Turn the mic switch off or mic gain all the way down. I use headphones and adjust the car adj pot and its trimmer cap alternately for the least carrier signal. It is a fine adjustment and once you get close, is very touchy. Alternative is to do it using a dummy load with a scope or voltmeter on the output.
>
> I use the AADE digital readout on my A and B versions also. Works ALMOST...on Above 20M it is iffy..suspect it needs a little more signal. I have a small amp to install from idiom press I think that might help.
>
> Mine also does the random digitts when in transmit..I think it is RF getting to the display unit tho..try bypassing any power leads and a ferrite bead on the rf cable.
>
> Curt
> KU8L
>
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>

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> > The poor signal reports happen when I operate in the 'separate' mode as well as in the transceive modes.
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> > I'm reluctant to open up and start making adjustments unless I'm sure I have to, hi. If anyone has had a similar experience or can advise on the apparent poor reports, or the question of carrier balance, it would be very helpful.
> >
> > Thanks and 73,
> >
> > Steve MW0KST
> >
>

3303. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 16:47:04 UTC
From: captcurt2000
Topic: 3300 Message: 3303

You are correct on the frequency sensitivity..band has no relation to the carrier ballance. The carrier balance happens prior to the sideband/bandpass filters and so it is prior to the final mixing up to tx freq. The 5645 osc feeds the balanced modulator along with the audio.

Also, it makes no difference where the mic gain is set either. Only reason to reduce it to zero is to keep any stray audio from making the balance adjustment difficult.

Tweaking of the injection trimmers can help the higher freq response of the AADE display but it doesn't seem to make any difference in the tx scramble issue--which I really blame on RF.

I Made up a special injection cable y..tried many different set-ups but anything that allowed the rigs to work as they should made no difference in the proper operation of the AADE unit.

BTW..the proper car balance is way too sensitve to be seen except grossly by looking at the wattmeter or plate current. That just gets you close.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@...> wrote:
>
> Hi Curt,
>
> Thanks for this - ok, if I should be getting almost zero carrier in SSB transmit with the tx gain turned fully CCW, it needs attention. On 80m, my signal reports are good, but hard to tell as when the band is open, nearly all signals are 59+, hi.
>
> Am I right in thinking the carrier balance is not frequency sensitive? I.e. once set for say 20m, it will be good for the other bands too?
>
> Tks also for the comments re the AADE display - good to see I'm not alone in this. I had thought of making up new inj cables, or adjusting the inj trimmers. Again, my C-Line is way to nice for me to be tinkering with its insides without proper 'instructions'!
>
> Much appreciated,
>
> 73, Steve
> MW0KST
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> >
> > Hi Steve:
> >

> > Well..the implication is that energy that should be going into your voice component of the siganl is not..instead it is being sent as carrier.
> >
> > The carrier balance adjustment is easily upset by vibration or moving the rig around over time so I find I have to do it a couple of times a season.
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> > I do it by listening on a monitor rx like you are doing. (Dummy load) and you don't need to load up to much power. Turn the mic switch off or mic gain all the way down. I use headphones and adjust the car adj pot and its trimmer cap alternately for the least carrier signal. It is a fine adjustment and once you get close, is very touchy. Alternative is to do it using a dummy load with a scope or voltmeter on the output.
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> > Mine also does the random digitts when in transmit..I think it is RF getting to the display unit tho..try bypassing any power leads and a ferrite bead on the rf cable.
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> > Curt
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> > --- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@> wrote:
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the transceive modes.
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> > > I'm reluctant to open up and start making adjustments unless I'm sure I have to, hi. If anyone has had a similar experience or can advise on the apparent poor reports, or the question of carrier balance, it would be very helpful.
> > >
> > > Thanks and 73,
> > >
> > > Steve MW0KST
> > >
> >
>

3304. Decent manual for the T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 18:06:12 UTC
From: wa6rkn
Topic: 3304 Message: 3304

Does anyone have a decently copied manual for the T-4XB? The one on Mods.dk is pretty poor quality.

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

3305. Re: [DrakeRadio] Decent manual for the T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 18:45:00 UTC
From: Garey Barrell
Topic: 3304 Message: 3305

Joe -

Here is the schematic from my Service CD for the B-Line. If you work on your radios you may find it helpful.

Along with high quality scans of the original manuals, it includes both schematic versions for the transmitter and all four versions of the receiver, plus manuals of associated equipment such as the MN-2000, MN-4, L-4B, C-4, W-4, etc.

The main feature is the full color, high resolution photographs of the chassis and all boards with all parts identified and keyed to complete parts list.

Further details at <www.k4oah.com)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

wa6rkn wrote:
> Does anyone have a decently copied manual for the T-4XB? The one on Mods.dk is pretty poor quality.
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>

[Non-text portions of this message have been removed]

3306. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 19:08:38 UTC
From: Steve
Topic: 3300 Message: 3306

Thanks Curt - all understood. I just ran a test with a 'local' 40 miles away on 80m LSB - he scanned the band fully up and down while I was transmitting. Nothing spurious was heard by him, and my signal had the right bandwidth. Reports were 30 over 9 both ways with very good audio. Hm, if the carrier balance was way off, then we should have noticed it - I think...

I'll still do the carrier balance adjustment, but given the weak signal report problem is on 20m USB, I guess the next test is for LSB on 20m.

Good advice on the AADE display and cables - yes I was all set to try making up a variety of cables - including a 'Y', with gold connectors etc. I did think the digit scrambling on tx was related to weak inj signals somehow getting weaker, hi. I'll try some ferrites instead - power for the AADE comes from the back of the R-4C. The readout works well on all bands except 10m where it works only when the rx PTO is used, and then I have to get the preselector bang-on.

Thanks again,

73, Steve
MW0KST

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> You are correct on the frequency sensitivity..band has no relation to the carrier ballance. The carrier balance happens prior to the sideband/bandpass filters and so it is prior to the final mixing up to tx freq. The 5645 osc feeds the balanced modulator along with the audio.
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> Also, it makes no difference where the mic gain is set either. Only reason to reduce it to zero is to keep any stray audio from making the balance adjustment difficult.
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> I Made up a special injection cable y..tried many different set-ups but anything that allowed the rigs to work as they should made no difference in the proper operation of the AADE unit.
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> BTW..the proper car balance is way too sensitve to be seen except grossly by looking at the wattmeter or plate current. That just gets you close.
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> Curt
> KU8L
>
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>
> --- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@> wrote:
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> > Hi Curt,
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> > Much appreciated,
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> > 73, Steve
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> > > Well..the implication is that energy that should be going into your voice component of the siganl is not..instead it is being sent as carrier.
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> > > Curt
> > > KU8L
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> > > --- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@> wrote:

> > > >
> > > > Hi - can anyone tell me the implications of an incorrect carrier balance setting? My T-4XC puts out about 130W on 20M on tune, about 350 mA plate current. All seems ok, but I get weak reports on 20m (and higher frequencies) - weaker than with my FT-847 at 100W. In general, if I'm receiving a station below about S5, he will not hear my call on the T-4XC, but will with the Yaesu.(I generally receive reciprocal reports with the Yaesu).
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> > > >
> > > > Thanks and 73,
> > > >
> > > > Steve MW0KST
> > > >
> > >
> >
>

3307. Re: [DrakeRadio] Decent manual for the T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 18:59:11 UTC
From: Carl McLelland
Topic: 3304 Message: 3307

Joe,
I've got the manuals for a T-4XC and R-4C in pdf format. That's about the best "quality" I can offer. Send me your offnet email address and I'll send one or both to you if that'll help you.
Carl
KF7GJO
Sparks, NV
carlynneracing@...

----- Original Message -----
From: wa6rkn
To: DrakeRadio@yahoogroups.com
Sent: Friday, February 19, 2010 10:06 AM
Subject: [DrakeRadio] Decent manual for the T-4XB

Does anyone have a decently copied manual for the T-4XB? The one on Mods.dk is pretty poor quality.

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

3308. Re: [DrakeRadio] Decent manual for the T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 21:21:56 UTC
From: Richard Knoppow
Topic: 3304 Message: 3308

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>; <WA6RKN@...>
Sent: Friday, February 19, 2010 10:45 AM
Subject: Re: [DrakeRadio] Decent manual for the T-4XB

> Joe -
>
> Here is the schematic from my Service CD for the B-Line.
> If you work on
> your radios you may find it helpful.
>
> Along with high quality scans of the original manuals, it
> includes both
> schematic versions for the transmitter and all four
> versions of the
> receiver, plus manuals of associated equipment such as the
> MN-2000,
> MN-4, L-4B, C-4, W-4, etc.
>
> The main feature is the full color, high resolution
> photographs of the
> chassis and all boards with all parts identified and keyed
> to complete
> parts list.
>
> Further details at <www.k4oah.com)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

I strongly recommend this disc. While there are decent manuals in PDF form on the web the disc has them all in one place. In addition, the "service manual", which is not a factory manual and is not available anywhere else, is extremely valuable for trouble shooting because it has a complete list of parts with specifications and pinpoints their locations. It also has high resolution color photographs of all the chassis and circuit boards with identifiers for the components. There is also other stuff on the disc including a couple of alternate versions of the schematics and much material not included in the regular

factory instruction books.
I had both the RX and TX manuals printed out at Kinkos
for not too much and also had 18"x 14" prints made of the
schematics. The files are high enough res to make even
larger ones if desired. The large schematic are very
valuable for tracing wiring around. One can use colored
pencils to avoid confusion.
Gary's discs are not expensive and are actually cheap
considering the value of the contents.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3309. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-19 22:12:19 UTC
From: captcurt2000
Topic: 3300 Message: 3309

Just another thought.

20 is the first band up from the bottom where the standard is USB. It is possible that there is a problem with the filter or the carrier oscillator centering causing the output on USB to be weaker than the LSB.

You could probably observe this by monitoring the output signal with a voltmetrer or scope while changing from Upper to lower.

Others here might better comment on this since my experience is A and B series only.

On the AADE, I would bypass the heck out of that power line coming into the display box. I have noticed the scrambling proble while the display is powered up but a different rig is running in the shack...thats what got me going on the RF problem. ie display connected ond ON but its R4B is off and I am using the TR7. the 5645 display goes crazy.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@...> wrote:
>
> Thanks Curt - all understood. I just ran a test with a 'local' 40 miles away on 80m LSB - he scanned the band fully up and down while I was transmitting. Nothing spurious was heard by him, and my signal had the right bandwidth. Reports were 30 over 9 both ways with very good audio. Hm, if the carrier balance was way off, then we should have noticed it - I think...
>
> I'll still do the carrier balance adjustment, but given the weak signal report problem is on 20m USB, I guess the next test is for LSB on 20m.
>
> Good advice on the AADE display and cables - yes I was all set to try making up a variety of cables - including a 'Y', with gold connectors etc. I did think the digit scrambling on tx was related to weak inj signals somehow getting weaker, hi. I'll try some ferrites instead - power for the AADE comes from the back of the R-4C. The readout works well on all bands except 10m where it works only when the rx PTO is used, and then I have to get the preselector bang-on.
>
> Thanks again,
>
> 73, Steve
> MW0KST
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> >
> > You are correct on the frequency sensitivity..band has no relation to the carrier ballance. The carrier balance happens prior to the sideband/bandpass filters and so it is

prior to the final mixing up to tx freq. The 5645 osc feeds the balanced modulator along with the audio.
> >
> > Also, it makes no difference where the mic gain is set either. Only reason to reduce it to zero is to keep any stray audio from making the balance adjustment difficult.
> >
> > Tweaking of the injection trimmers can help the higher freq response of the AADE display but it doesn't seem to make any difference in the tx scramble issue--which I really blame on RF.
> >
> > I Made up a special injection cable y..tried many different set-ups but anything that allowed the rigs to work as they should made no difference in the proper operation of the AADE unit.
> >
> > BTW..the proper car balance is way too sensitve to be seen except grossly by looking at the wattmeter or plate current. That just gets you close.
> >
> > Curt
> > KU8L
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@> wrote:
> > >
> > > Hi Curt,
> > >
> > > Thanks for this - ok, if I should be getting almost zero carrier in SSB transmit with the tx gain turned fully CCW, it needs attention. On 80m, my signal reports are good, but hard to tell as when the band is open, nearly all signals are 59+, hi.
> > >
> > > Am I right in thinking the carrier balance is not frequency sensitive? I.e. once set for say 20m, it will be good for the other bands too?
> > >
> > > Tks also for the comments re the AADE display - good to see I'm not alone in this. I had thought of making up new inj cables, or adjusting the inj trimmers. Again, my C-Line is way to nice for me to be tinkering with its insides without proper 'instructions'!
> > >
> > > Much appreciated,
> > >
> > > 73, Steve
> > > MW0KST
> > >
> > > --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> > > >
> > > > Hi Steve:
> > > >
> > > > Well..the implication is that energy that should be going into your voice component of the siganl is not..instead it is being sent as carrier.
> > > >
> > > > The carrier balance adjustment is easily upset by vibration or moving the rig around over time so I find I have to do it a couple of times a season.

> > > >
> > > > I do it by listening on a monitor rx like you are doing. (Dummy load) and you don't need to load up to much power. Turn the mic switch off or mic gain all the way down. I use headphones and adjust the car adj pot and its trimmer cap alternately for the least carrier signal. It is a fine adjustment and once you get close, is very touchy. Alternative is to do it using a dummy load with a scope or voltmeter on the output.
> > > >
> > > > I use the AADE digital readout on my A and B versions also. Works ALMOST...on Above 20M it is iffy..suspect it needs a little more signal. I have a small amp to install from idiom press I think that might help.
> > > >
> > > > Mine also does the random digitts when in transmit..I think it is RF getting to the display unit tho..try bypassing any power leads and a ferrite bead on the rf cable.
> > > >
> > > > Curt
> > > > KU8L
> > > >
> > > >
> > > >
> > > > --- In DrakeRadio@yahoogroups.com, "Steve" <stevedavies77@> wrote:
> > > > >
> > > > > Hi - can anyone tell me the implications of an incorrect carrier balance setting? My T-4XC puts out about 130W on 20M on tune, about 350 mA plate current. All seems ok, but I get weak reports on 20m (and higher frequencies) - weaker than with my FT-847 at 100W. In general, if I'm receiving a station below about S5, he will not hear my call on the T-4XC, but will with the Yaesu.(I generally receive reciprocal reports with the Yaesu).
> > > > >
> > > > > I'm using the Shure 444 mic, all seems ok, except when I check for carrier balance on a nearby receiver, I do get an S9 carrier coming through about 1.5 kHz above the tx frequency when on LSB - this with the tx gain control turned fully CCW.
> > > > >
> > > > > The audio sounds ok on a remote rx.I have checked for splatter and spurious transmissions, both seem ok, but I am just using another rx in the shack for this. I would say the splatter is wider than on my FT-847, but no more than a couple of kcs and that's with a receiver right here on the bench with the tx.
> > > > >
> > > > > When the mic is keyed in the above test (LSB, gain fully CCW), there is negligible output power. (I can see no deflection on the 20W scale on my old FC-102 ATU power meter).
> > > > >
> > > > > I'm using an AADE digital frequency display and this works well, showing exactly 5465 kcs when the preselector is off-tuned (using both rx and tx PTO controls). On the higher frequencies, the digital display loses the signal when transmitting SSB, with the digits changing apparently randomly. It stays stable in 'tune'.
> > > > >
> > > > > The poor signal reports happen when I operate in the 'separate' mode as well as in the transceive modes.
> > > > >
> > > > > I'm reluctant to open up and start making adjustments unless I'm sure I have to, hi. If anyone has had a similar experience or can advise on the apparent poor reports, or

the question of carrier balance, it would be very helpful.
> > > > >
> > > > > Thanks and 73,
> > > > > >
> > > > > Steve MW0KST
> > > > > >
> > > > >
> > > >
> > >
>

3310. Re: [DrakeRadio] Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 01:35:32 UTC
From: Richard Knoppow
Topic: 3300 Message: 3310

----- Original Message -----
From: "captcurt2000" <captcurt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, February 19, 2010 2:12 PM
Subject: [DrakeRadio] Re: T-4XC carrier balance

I will adress the carrier balance problem. I am no
expert on Drake stuff but have had to fight some problems
with a T-4XB which has a similar ring modulator and IF
system. The carrier suppression on these transmitters is
unusually good, speced at -60db. The carrier balance is not
hard to adjust. I find it convenient to use a scope on a T
connector in the output cable while the TX is tuned up into
a dummy load. The signal frequency is irrelevant to this
adjustment.
The book method is to tune up the transmitter. Then put
it in upper sideband. Unbalance the carrier pot by turning
it all the way one way, the direction does not matter. The
TX is then keyed by shorting the center conductor of the mic
input to ground or using the PPT switch on a mic either done
with the gain all the way down. The next step is to adjust
the frequency of the carrier oscillator to get equal output
on either side band. That may take a bit of juggling. Once
you have it on frequency adjust the cores on the IF
transformers for maximum. This can be seen on the output.
Re-check the LO frequency and again adjust it for equal
carrier on the two sideband positions. Once this is done
re-adjust the carrier balance pot for minimum. The null
capacitor may also require some adjustment. The two
adjustments interact a bit so you must juggle them to get
the absolute minimum. I have to turn my scope up to nearly
maximum gain to see this, there is very little carrier
there. Using a receiver on CW to hear the residual carrier
may also work but I am concerned with leakage with the TX
and RX close to each other, but, its worth trying.
I think the balance should be pretty stable. There is a
temperature compensating cap in the circuit, across the
balance cap.
When tuned right the two filters should sound about
alike. A noticable difference in sound or signal strength
between the two sidebands may indicate that the LO is
mis-tuned. Of course, it couls also be a bad filter or
something in the switching but the LO is easy to check and
adjust and would be my first point of attack.
I am still fighting another problem with my T-4BX, the

main problem I have is limited time to work on it. Very
frustrating.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3311. re: tr7 af/rf pot.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 05:39:32 UTC
From: Edward Smith
Topic: 3311 Message: 3311

Thanks for the information, with this information I was able to repair it.

I disassembled the pot, the carbon ring was cracked at one end at soldering lug, it wasn't worn out just broken .

I did have a 10k pot, so I was able to lossen the tabs, replace the carbon ring with solder lugs and reassemble with the oringnal wiper and sleeve.

It worked perfectly......removing the pot was harder than the repair itself.
Thanks again,
Ed

3312. Re: [DrakeRadio] Decent manual for the T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 10:15:19 UTC
From: Dan Galligan
Topic: 3304 Message: 3312

Joe,
YES, I do. It will take me a couple of days, as it is a tedious process to copy to a .pdf file, then email, and weekends are my busy part of the week, but, sure, I will get one off to you Monday, or Tuesday, if you send your email address to me at either one listed below.
Dan Galligan
W3RXO
dgalligan60 (at) mac (dot) com
w3rxo (at) mac (dot) com

[Non-text portions of this message have been removed]

3313. Re: T-4XC carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 12:21:26 UTC
From: Steve
Topic: 3300 Message: 3313

Hi Richard and Curt,

Thanks to you both for this - well for me, this would be quite an undertaking.

I have a sked tomorrow with a local for some USB / LSB tests on 20m, so let's see if there's a difference between the sidebands. I'll postpone opening up the T-4XC until after the test, hi.

Well, time, lack of test equipment and being new to the Drake and valve radios are my limiting factors, hi.

Thanks and 73,

Steve
MW0KST

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "captcurt2000" <captcurt@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, February 19, 2010 2:12 PM
> Subject: [DrakeRadio] Re: T-4XC carrier balance
>
> I will adress the carrier balance problem. I am no
> expert on Drake stuff but have had to fight some problems
> with a T-4XB which has a similar ring modulator and IF
> system. The carrier suppression on these transmitters is
> unusually good, speced at -60db. The carrier balance is not
> hard to adjust. I find it convenient to use a scope on a T
> connector in the output cable while the TX is tuned up into
> a dummy load. The signal frequency is irrelevant to this
> adjustment.
> The book method is to tune up the transmitter. Then put
> it in upper sideband. Unbalance the carrier pot by turning
> it all the way one way, the direction does not matter. The
> TX is then keyed by shorting the center conductor of the mic
> input to ground or using the PPT switch on a mic either done
> with the gain all the way down. The next step is to adjust
> the frequency of the carrier oscillator to get equal output
> on either side band. That may take a bit of juggling. Once
> you have it on frequency adjust the cores on the IF
> transformers for maximum. This can be seen on the output.
> Re-check the LO frequency and again adjust it for equal
> carrier on the two sideband positions. Once this is done

> re-adjust the carrier balance pot for minimum. The null
> capacitor may also require some adjustment. The two
> adjustments interact a bit so you must juggle them to get
> the absolute minimum. I have to turn my scope up to nearly
> maximum gain to see this, there is very little carrier
> there. Using a receiver on CW to hear the residual carrier
> may also work but I am concerned with leakage with the TX
> and RX close to each other, but, its worth trying.
> I think the balance should be pretty stable. There is a
> temperature compensating cap in the circuit, across the
> balance cap.
> When tuned right the two filters should sound about
> alike. A noticable difference in sound or signal strength
> between the two sidebands may indicate that the LO is
> mis-tuned. Of course, it couls also be a bad filter or
> something in the switching but the LO is easy to check and
> adjust and would be my first point of attack.
> I am still fighting another problem with my T-4BX, the
> main problem I have is limited time to work on it. Very
> frustrating.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3314. TR-4 ITEMS F.S.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 15:27:21 UTC
From: Dale
Topic: 3314 Message: 3314

I have sold my TR-4CW/RIT R-4C and have the following items now excess:
Shield can- think this must be for the preselector- has the 6JB6 tube warning on the top.

Rear panel crystal cover in good condx

6 6JB6 tubes- unknown quality. 4 are Sylvania 2 are Phillips. 4 in boxes.

4C main tuning knob.

Inrad 6KHz A.M. filter for using the transceiver TR-4 on A.M. Comes with on board enable/disable relays and bracket to mount next to the CW filter

Make offers if interested.
Dale W4OP

3315. For Sale: Drake 2B NOS Power transformer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 15:40:27 UTC
From: Dale Parfitt
Topic: 3315 Message: 3315

Subject line says it all- bought this when Drake was selling off their older parts.
$50 shipped.

Dale W4OP

[Non-text portions of this message have been removed]

3316. Re: [DrakeRadio] TR-4 ITEMS F.S.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 17:12:05 UTC
From: Kris Merschrod
Topic: 3314 Message: 3316

Dale, I am interested in the AM filter. This was designed for the TR-4 Rcvr audio line or for the xmit?

Are there any websites to read about this filter?

many thanks,

Kris (KA2OIG)

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Dale
To: DrakeRadio@yahoogroups.com
Sent: Saturday, February 20, 2010 10:27 AM
Subject: [DrakeRadio] TR-4 ITEMS F.S.

I have sold my TR-4CW/RIT R-4C and have the following items now excess:
Shield can- think this must be for the preselector- has the 6JB6 tube warning on the top.

Rear panel crystal cover in good condx

6 6JB6 tubes- unknown quality. 4 are Sylvania 2 are Phillips. 4 in boxes.

4C main tuning knob.

Inrad 6KHz A.M. filter for using the transceiver TR-4 on A.M. Comes with on board enable/disable relays and bracket to mount next to the CW filter

Make offers if interested.
Dale W4OP

[Non-text portions of this message have been removed]

3317. Re: [DrakeRadio] TR-4 ITEMS F.S.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-20 17:21:06 UTC
From: Dale Parfitt
Topic: 3314 Message: 3317

----- Original Message -----
From: Kris Merschrod
To: DrakeRadio@yahoogroups.com
Sent: Saturday, February 20, 2010 12:12 PM
Subject: Re: [DrakeRadio] TR-4 ITEMS F.S.

Dale, I am interested in the AM filter. This was designed for the TR-4 Rcvr audio line or for the xmit?

Are there any websites to read about this filter?

many thanks,

Kris (KA2OIG)

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

Hi Kris,

Here are some articles:

http://www.wb4hfn.com/DRAKE/DrakeArticles/TR4_AM-Filter/TR4CW_AM-Filter_01.htm

http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/TR4C-AM-Filter.htm

My version did not use the CW filter position- but rather, enabled the AM filter by replacing the RIT pot with one that had a switch on it. When pulled out, the AM filter was enabled (also easier for casual tuning around on CW mode). The user was alerted to the fact that the AM filter was enabled because one of the onboard relays was used to illuminate BOTH USB and LSB. I have many pix of this mod if interested- only applicable to the TR-4CW/RIT for my mod.

Here's a pix of the board/ filter and bracket.

Dale W4OP- born in Elmira - graduated from Syracuse.

[Non-text portions of this message have been removed]

3318. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-21 20:18:40 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3318

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3319. "C" Line issues

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-22 01:18:31 UTC
From: w3rxo
Topic: 3319 Message: 3319

I recently purchased a near mint condition "C" Line from a fellow, and was told it had just been gone through and aligned by a fellow who works on them for HRO, San Diego. It has a Sherwood mod switch in the back, and some paperwork for the stuff Sherwood did to it.
Well, I made my connections, grounded it well, and plugged in the antenna. I turned it on and got it warmed up. When I went to tune her up, I put it in the separate, and then brought the two vfo's to similar positions on the same band (75M). When I turned up the volume, I got a signal similar to that heard, when my "B" Line is in the spot position (bird chirping). I double checked that all switches are in the righ position, and that all interconnects are connected to the corresponding receptacle, at each end. Everything looks good. So, I turned the switch to spot and the signal went away. So I tried the transceive switch in the receiver position, and the bird was back. Tried it in the transmitter position, and same bird. It seems that the only time it is NOT giving a spot signal, is when it is in the spot position.
Does anyone have any clues what I have done wrong? I tuned it up, as though it were my "B"Line, and it is tuning to about 125-130 watts, about what I would expect. But I get the bird whenever the radios are tuned together, and the receive is not very good. I didn't pay top dollar for them, but I didn't get them at a price as though they were fixer-uppers, and I'd hate to have to ship them back to Jeff Covelli, just to get them right.
I am hoping I have given enough information here, to have someone recognize the problem, and point me in the direction of the solution.
Thank you in advance for the help.

3320. Access to the TR7 meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-22 19:11:52 UTC
From: w3crr
Topic: 3320 Message: 3320

I am one step away from finishing the restoration of my second TR7 (so I'll have a spare). I need to mechanically "zero' the rig's power meter. To do that, it would appear, I must remove the meter to gain access to the adjustment screw on the front.

What's the best way to do this? I don't know about you, but I have been known to disassemble an entire piece of equipment in order to gain access to one component, only to learn later that I could have accomplished the same thing by undoing two screws.

Thanks and 73,

Craig
W3CRR

3321. Re: [DrakeRadio] Access to the TR7 meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-22 22:21:01 UTC
From: Jim Shorney
Topic: 3320 Message: 3321

On Mon, 22 Feb 2010 19:11:52 -0000, w3crr wrote:

> I need to mechanically "zero' the rig's power meter.
>
>What's the best way to do this? I don't know about you, but I have been known to disassemble an entire piece of equipment in order to gain access to one component, only to learn later that I could have accomplished the same thing by undoing two screws.

As I recall, it's not terribly difficult. I think that I had to drop the front panel - remove the band shaft knob and the two screws on the rear detent mech so you can pull the band shaft out from the rear just enough to clear the front panel. Then, remove the top two screws on each side that secure the front, and loosen the bottom screw slightly. The DR-7 board will need to be pulled to allow room for the PTO to swing up as you hinge the front panel down, but this should be easier once you tip the panel forward a little. After that, it's just a couple of screws and an aluminum bracket, and the meter is loose. Make sure the meter is lined up straight before you put everything back together.

It's not as complicated as it sounds. :) There may be an easier way, its been a year or more since I've done it and I'm going by memory here. It might be a good idea to wipe the meter case down with some sort of anti-stat solution while you have it out. There are commercial products available, and I have also seen "recipes" on the web for home-brew (no still required).

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3322. TR5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-25 10:25:25 UTC
From: Joe
Topic: 3322 Message: 3322

----- Original Message -----
From: <jcharley@...>
To: <DrakeRadio-owner@yahoogroups.com>
Sent: Wednesday, February 24, 2010 6:19 PM
Subject: TR5

I just became the proud owner of a TR5. I am thrilled. In comparing it to my TR7 it seems quieter. Only did preliminary comparison but seems to be hearing as well. Does anybody know how the RX in the TR5 stacks up to the TR7? Somebody once said that best thing one can do for the TR7 is to use an external power switch cuz there is no replacement for the AF/RF switch in the TR7. Does the same hold true for the TR5? Any other tips for the TR5? Tnx. 73/Crit/K4BXN

3323. Re: [DrakeRadio] TR5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-26 15:25:09 UTC
From: Garey Barrell
Topic: 3322 Message: 3323

Crit -

Congratulations! I've never owned a TR-5, but I believe the big advantage over the TR-7 is the synthesized "PTO", making it much more frequency stable.

I'll be interested to hear what you think of it.

The external power switch is a good idea for just about ANY piece of equipment. Even if the part is available, consider whether you would rather replace a standard toggle switch in a simple box or panel, - OR - a special switch buried three layers deep inside a piece of equipment! It's an easy decision for something like the TR-7 where there is just no equivalent component available. It's even getting hard to find a "standard" 500k audio tape pot with an SPST switch on the back, which was used in just about every receiver or radio for 70 years!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> ----- Original Message -----
> From:<jcharley@...>
> To:<DrakeRadio-owner@yahoogroups.com>
> Sent: Wednesday, February 24, 2010 6:19 PM
> Subject: TR5
>
>
> I just became the proud owner of a TR5. I am thrilled. In comparing it to
> my TR7 it seems quieter. Only did preliminary comparison but seems to be
> hearing as well. Does anybody know how the RX in the TR5 stacks up to the
> TR7? Somebody once said that best thing one can do for the TR7 is to use an
> external power switch cuz there is no replacement for the AF/RF switch in
> the TR7. Does the same hold true for the TR5? Any other tips for the TR5?
> Tnx. 73/Crit/K4BXN
>
>

3324. New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 16:38:49 UTC
From: Larry J
Topic: 3324 Message: 3324

In 1975 I purchased a new "C" line for $1350.00. As the new radios came out I was swayed away by the simple operations of modern features. Sadly I sold my Drake Twins. Very foolish. After many years I'm back in the fold having bought a prime "C" line from a person wanting it to have a good home. ($500.00)
Checking out the Drake Yahoo user groups I have found several including one that is now 100% over run by spam. While I understand that most traffic on this site will be from hams with problems, I hope a few might share the good they are having with R.L.Drake's radios.

Larry Jacobs - WA7ZBO
Salt Lake City, Utah

3325. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 18:05:32 UTC
From: Jim Shorney
Topic: 3324 Message: 3325

On Sun, 28 Feb 2010 16:38:49 -0000, Larry J wrote:

>In 1975 I purchased a new "C" line for $1350.00. As the new radios came out I was swayed away by the simple operations of modern features. Sadly I sold my Drake Twins. Very foolish. After many years I'm back in the fold having bought a prime "C" line from a person wanting it to have a good home. ($500.00)
>Checking out the Drake Yahoo user groups I have found several including one that is now 100% over run by spam. While I understand that most traffic on this site will be from hams with problems, I hope a few might share the good they are having with R.L.Drake's radios.

Not to take anything away from this or other online Drake forums (I subscribe to several), but check out http://www.zerobeat.net/drakelist/ .

There is both an email reflector and a seperate online forum there. The email reflector is very active and has been around for a long time, and has an online searchable archive.

Congrats on the "new" C-line!

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3326. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 18:19:26 UTC
From: Garey Barrell
Topic: 3324 Message: 3326

Larry -

Welcome back!

This group, and the Drakelist group are the most active. Like all
groups, they go through phases of activity, but both are spam-free.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Larry J wrote:
> In 1975 I purchased a new "C" line for $1350.00. As the new radios came out I was swayed away by the simple operations of modern features. Sadly I sold my Drake Twins. Very foolish. After many years I'm back in the fold having bought a prime "C" line from a person wanting it to have a good home. ($500.00)
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>
> Larry Jacobs - WA7ZBO
> Salt Lake City, Utah
>
>
>

3327. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 18:21:16 UTC
From: Garey Barrell
Topic: 3324 Message: 3327

Hey! Don't go "poaching" my list members..... :-)

Garey - K4OAH

Jim Shorney wrote:
> On Sun, 28 Feb 2010 16:38:49 -0000, Larry J wrote:
>
>
>> In 1975 I purchased a new "C" line for $1350.00. As the new radios came out I was swayed away by the simple operations of modern features. Sadly I sold my Drake Twins. Very foolish. After many years I'm back in the fold having bought a prime "C" line from a person wanting it to have a good home. ($500.00)
>> Checking out the Drake Yahoo user groups I have found several including one that is now 100% over run by spam. While I understand that most traffic on this site will be from hams with problems, I hope a few might share the good they are having with R.L.Drake's radios.
>>
>
> Not to take anything away from this or other online Drake forums (I subscribe
> to several), but check out http://www.zerobeat.net/drakelist/ .
>
> There is both an email reflector and a seperate online forum there. The email
> reflector is very active and has been around for a long time, and has an online
> searchable archive.
>
> Congrats on the "new" C-line!
>
> 73
>
> -Jim
>
>
>

3328. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 18:52:59 UTC
From: Jim Shorney
Topic: 3324 Message: 3328

On Sun, 28 Feb 2010 13:21:16 -0500, Garey Barrell wrote:

>
>Hey! Don't go "poaching" my list members..... :-)

I didn't know I needed a licence to hunt list members. What's the bag limit?

-Jim (posting to THIS list!)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3329. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 19:00:30 UTC
From: Carl McLelland
Topic: 3324 Message: 3329

Depends on if you get caught or not... hihi

Used to love it when the guys at work would win the (Nevada) lottery and get a deer tag! I used to tell them just go to Tongass Hardware in Ketchikan, Alaska. Non resident deer tag was (either) $35.00 or $50.00 (forget which now)..... LIMIT 6 DEER!!
Carl KF7GJO

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Sunday, February 28, 2010 10:52 AM
Subject: Re: [DrakeRadio] New Beginnings

On Sun, 28 Feb 2010 13:21:16 -0500, Garey Barrell wrote:

>
>Hey! Don't go "poaching" my list members..... :-)

I didn't know I needed a licence to hunt list members. What's the bag limit?

-Jim (posting to THIS list!)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

3330. Re: [DrakeRadio] New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-02-28 19:09:29 UTC
From: Garey Barrell
Topic: 3324 Message: 3330

Jim Shorney wrote:
> On Sun, 28 Feb 2010 13:21:16 -0500, Garey Barrell wrote:
>
>
>> Hey! Don't go "poaching" my list members..... :-)
>>
>
> I didn't know I needed a licence to hunt list members. What's the bag limit?
>
> -Jim (posting to THIS list!)
>
>
All you can eat!!

Garey - K4OAH

3331. Re: New Beginnings

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-01 00:15:15 UTC
From: Larry J
Topic: 3324 Message: 3331

thanks Jim, spent a fair amount of time in your town working for Uncle Pete's Railroad.

-

3332. B-Line Service CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-03 22:42:55 UTC
From: Joe
Topic: 3332 Message: 3332

Hi Garey..

CD came today. Thanks for the quick delivery. Now my original manuals can stay in the large ZipLock baggie and I can print out the working manuals.

Now have to find someplace to buy a complete set of tubes..to have as backup. Going to borrow a friend's tube tester and test all the tubes...I suspect there are a few bad ones in the receiver as only one shows any filament glow or warms up. Haven't fired up the transmitter yet....want to bring it up on a variac...been 10 years since the radio has been on.

I want to tear it apart and get it on the air as soon as possible, but I really should put the FL2100B back together first....then that legacy station set can be put on display.

(It only took 36 years to get my B-Line....I know....I was in a rush....always in a hurry.)

Thanks again!

Joe Wolfe
WA6RKN
Reno, Nevada

3333. Re: [DrakeRadio] B-Line Service CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 00:40:39 UTC
From: Gary Stern
Topic: 3332 Message: 3333

Gee it only took me 35 years to get my Tr-4c,

You too your time :-)

From: Joe <WA6RKN@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, 4 March, 2010 9:42:55 AM
Subject: [DrakeRadio] B-Line Service CD

Hi Garey..

CD came today. Thanks for the quick delivery. Now my original manuals can stay in the large ZipLock baggie and I can print out the working manuals.

Now have to find someplace to buy a complete set of tubes..to have as backup. Going to borrow a friend's tube tester and test all the tubes...I suspect there are a few bad ones in the receiver as only one shows any filament glow or warms up. Haven't fired up the transmitter yet....want to bring it up on a variac...been 10 years since the radio has been on.

I want to tear it apart and get it on the air as soon as possible, but I really should put the FL2100B back together first....then that legacy station set can be put on display.

(It only took 36 years to get my B-Line....I know....I was in a rush....always in a hurry.)

Thanks again!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

3334. Re: [DrakeRadio] B-Line Service CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 02:43:01 UTC
From: Richard Knoppow
Topic: 3332 Message: 3334

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, March 03, 2010 2:42 PM
Subject: [DrakeRadio] B-Line Service CD

>
> Hi Garey..
>
> CD came today. Thanks for the quick delivery. Now my
> original manuals can
> stay in the large ZipLock baggie and I can print out the
> working manuals.
>
> Now have to find someplace to buy a complete set of
> tubes..to have as
> backup. Going to borrow a friend's tube tester and test
> all the tubes...I
> suspect there are a few bad ones in the receiver as only
> one shows any
> filament glow or warms up. Haven't fired up the
> transmitter yet....want to
> bring it up on a variac...been 10 years since the radio
> has been on.
>
> I want to tear it apart and get it on the air as soon as
> possible, but I
> really should put the FL2100B back together first....then
> that legacy
> station set can be put on display.
>
> (It only took 36 years to get my B-Line....I know....I was
> in a
> rush....always in a hurry.)
>
> Thanks again!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
You can check filaments with an ohm meter. That will at
least tell you if the non-lighting tubes have open
filaments. I suspect not, bad filaments are actually pretty
rare. I strongly suggest checking socket resistance and if

you don't find anything way off there measure the socket voltages. Tubes can be removed for the resistance measurements but not for voltage measurements. If you can come up with a set of socket extenders they will be a big help. Most of the voltages can be measured under the chassis but be very careful especially in the transmitter because of the high voltages.
I also got the disc a while back. I have printed out the instruction manuals and Gary's manual with the photographs in it. I also had extra-large prints made of the schematics. The last are a big help because they make it easier to trace wiring around. A set of colored pencils will also help.
I strongly recommend this disc to anyone who has the equipment even if it all works perfectly and you never intend to work on it. There is a lot of information there that you will not find anywhere else.
Its cheap enough to get the manuals printed and bound at someplace like Kinko's plus they will print the large schematics for a couple of dollars each. The schematics on the disc are very high resolution and can probably be printed billboard size.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3335. Looking For:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 03:31:10 UTC
From: Joe
Topic: 3335 Message: 3335

Anyone have a spare FS-4 sitting on their shelf they might be interested in parting with?

There is one on eBay right now, but have no idea what his reserve price is. I will keep an eye on it.....

Anywho...looking!

Joe Wolfe
WA6RKN
Reno, Nevada

3336. TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 17:22:48 UTC
From: qrpcwop
Topic: 3336 Message: 3336

Anyone using this combination? I'd like to compare notes; it appears that I'm getting blow-by.

73 - Al, K2ZN

3337. TR7 PIN DIODES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 18:17:47 UTC
From: w1fued@sbcglobal.net
Topic: 3337 Message: 3337

Hi All,

I am trying to get my first (broken) TR7 running. The rx is up and running, but no output on TX., when keyed on cw, there is kinda of a chirp when going back to rx. Very little power out, about 1 w. , and digital dial shifts approx 200 hz between tx and rx

In testing the 3 pin diodes on the high pass filter board one appears to be bad according to the testing process (on the tx side). I will order some replacements from Down East....

My question is about the pin diodes in the forward board, they have been replaced with fast switching diodes (1n4148. They show no voltage when the calibrator is off, and 4.6v or so across them when calibrator is on, maybe this ok, I dont know.

Are the 4148 switching diodes ok for replacing the original MPM 3404 diode, or may this be an additional source of my problem?

Help would be appreciated.
Thanks,
Ed

3338. Re: [DrakeRadio] TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 21:43:17 UTC
From: Garey Barrell
Topic: 3336 Message: 3338

Al -

I don't have that combination, but check the PIN diodes that switch the filters in and out.

Also check the "-5V" supply (typical voltage around -3.5V) on the Power Supply board. The filter switches are the only place this is used, and is used to reverse bias the diodes that switch the filters in and out. There is a series and shunt diode at each end of each filter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

qrpcwop wrote:
> Anyone using this combination? I'd like to compare notes; it appears that I'm getting blow-by.
>
> 73 - Al, K2ZN
>
>
>

3339. Re: [DrakeRadio] TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 22:06:09 UTC
From: Jim Shorney
Topic: 3336 Message: 3339

On Thu, 04 Mar 2010 17:22:48 -0000, qrpcwop wrote:

>Anyone using this combination? I'd like to compare notes; it appears that I'm getting blow-by.
>
>73 - Al, K2ZN

I've got a Fox-Tango 250 in my R-7A. I think I read somwhere that it was essentially an Inrad.

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3340. Re: TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 22:22:00 UTC
From: qrpcwop
Topic: 3336 Message: 3340

Thanks, Garey

I've gone through the PIN diodes - they seem fine, as do the supply voltages. I've even gone to the extent of replacing the associated components with surface mount parts with the hope that I'd reduce stray coupling.

When I'm about 3 kHz above or below a strong signal of -70 dBm or more, I end up with high frequency energy (~3 kHz) from that signal in my passband. It's not very strong, but enough to cover up weak stations.

I was just wondering if anyone has experienced anything like this before I invent a fix. I was thinking about trying different PIN diodes and modifying the switch circuit to use the 24V supply rail for reverse bias.

73, Al

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Al -
>
> I don't have that combination, but check the PIN diodes that switch the
> filters in and out.
>
> Also check the "-5V" supply (typical voltage around -3.5V) on the Power
> Supply board. The filter switches are the only place this is used, and
> is used to reverse bias the diodes that switch the filters in and out.
> There is a series and shunt diode at each end of each filter.
>
> 73, Garey - K4OAH
> Glen Allen, VA

3341. Re: [DrakeRadio] Re: TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 22:55:27 UTC
From: Garey Barrell
Topic: 3336 Message: 3341

Al -

OK. Well the -3V is plenty to turn off the Series PINs, and plenty to saturate the Shunt PINs. Signal voltages are millivolts or less, so higher reverse bias won't help.

I'd look at grounding of the board and connecting the top and bottom ground planes together. I'm not certain, but I believe Drake specified 100 dB ultimate rejection for the IF.

Also look at the decoupling electrolytic caps involved..

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

qrpcwop wrote:
> Thanks, Garey
>
> I've gone through the PIN diodes - they seem fine, as do the supply voltages. I've even gone to the extent of replacing the associated components with surface mount parts with the hope that I'd reduce stray coupling.
>
> When I'm about 3 kHz above or below a strong signal of -70 dBm or more, I end up with high frequency energy (~3 kHz) from that signal in my passband. It's not very strong, but enough to cover up weak stations.
>
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>
> 73, Al
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Al -
>>
>> I don't have that combination, but check the PIN diodes that switch the
>> filters in and out.
>>
>> Also check the "-5V" supply (typical voltage around -3.5V) on the Power
>> Supply board. The filter switches are the only place this is used, and
>> is used to reverse bias the diodes that switch the filters in and out.
>> There is a series and shunt diode at each end of each filter.

>>
>> 73, Garey - K4OAH
>

3342. Re: [DrakeRadio] TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 22:40:26 UTC
From: Garey Barrell
Topic: 3336 Message: 3342

Jim Shorney wrote:
> On Thu, 04 Mar 2010 17:22:48 -0000, qrpcwop wrote:
>
>
>> Anyone using this combination? I'd like to compare notes; it appears that I'm getting blow-by.
>>
>> 73 - Al, K2ZN
>>
>
> I've got a Fox-Tango 250 in my R-7A. I think I read somwhere that it was
> essentially an Inrad.
>
> -Jim
>
>
INRAD used to be Fox-Tango! In between it was International Radio.!
One bought the other, etc., etc., etc. The American way!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3343. Re: [DrakeRadio] TR7 PIN DIODES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-04 22:30:15 UTC
From: Garey Barrell
Topic: 3337 Message: 3343

Ed -

The 1N4148 diodes will 'sorta' work, but are probably not the cause of your other problems. If they SHORT, they'll knock down both receive and transmit levels considerably, but not to the extent you are describing. These diodes are used to switch the calibrator signal into the receiver. They are not back-biased to ensure they are OFF, and the PIN diodes will give considerably less coupling in this condition than the 4148s. When the calibrator is turned ON, the two diodes are in series, forward biased between two 1k resistors. So you should read about 5 volts on the cathode of one diode, 5.6 volts 'between' the two diodes, and 6.2 volts on the anode of the "top" diode with the CAL on. If the voltage is the same on either "end" as the "between" voltage, that diode is shorted. You can just remove them for the time being, the only loss is the calibrator function.

Replacement MPN 3404 diodes are available from <www.kitsandparts.com>, six (6) for $3.00.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
> Hi All,
>
> I am trying to get my first (broken) TR7 running. The rx is up and running, but no output on TX., when keyed on cw, there is kinda of a chirp when going back to rx. Very little power out, about 1 w. , and digital dial shifts approx 200 hz between tx and rx
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>
> My question is about the pin diodes in the forward board, they have been replaced with fast switching diodes (1n4148. They show no voltage when the calibrator is off, and 4.6v or so across them when calibrator is on, maybe this ok, I dont know.
>
> Are the 4148 switching diodes ok for replacing the original MPM 3404 diode, or may this be an additional source of my problem?
>
> Help would be appreciated.
> Thanks,
> Ed
>

>
>
> ---
>
> Yahoo! Groups Links
>
>
>
>
>

3344. Re: [DrakeRadio] TR7 PIN DIODES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 02:36:48 UTC
From: Jim Shorney
Topic: 3337 Message: 3344

Hi Ed,

On Thu, 04 Mar 2010 18:17:47 -0000, w1fued@... wrote:

>I am trying to get my first (broken) TR7 running. The rx is up and running, but no output on TX., when keyed on cw, there is kinda of a chirp when going back to rx. Very little power out, about 1 w. , and digital dial shifts approx 200 hz between tx and rx

First off, are your +10T and +10R voltages switching properly?

>Are the 4148 switching diodes ok for replacing the original MPM 3404 diode, or may this be an additional source of my problem?

I would say no, 4148s are probably not OK. I'm sure they probably tried it at
some point and found them lacking.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3345. FS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 02:04:20 UTC
From: Joe
Topic: 3345 Message: 3345

I need some clarification, if you please.

I was under the impression that the FS-4 frequency synthesizer, would allow me to work 17 meters and 60 meters with my B-Line..

Someone here in my area is now telling me I am wrong.

Yes, No? Who is right?

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

3346. Re: TR7 PIN DIODES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 03:10:19 UTC
From: w1fued@sbcglobal.net
Topic: 3337 Message: 3346

Thanks Garey,

Well when I visited the Downeast website, I saw they had the mpn 3404 pin diodes for 25 cents apiece, so I ordered 4.

Those two diodes dont look that hard to get at, but the other 3 will be a challenge to get the iron in at the angle required. I hope the diodes are the problem, though I dont think so....gonna try to see if I have rf from the exciter.
Ed

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Ed -
>
> The 1N4148 diodes will 'sorta' work, but are probably not the cause of
> your other problems. If they SHORT, they'll knock down both receive and
> transmit levels considerably, but not to the extent you are describing.
> These diodes are used to switch the calibrator signal into the
> receiver. They are not back-biased to ensure they are OFF, and the PIN
> diodes will give considerably less coupling in this condition than the
> 4148s. When the calibrator is turned ON, the two diodes are in series,
> forward biased between two 1k resistors. So you should read about 5
> volts on the cathode of one diode, 5.6 volts 'between' the two diodes,
> and 6.2 volts on the anode of the "top" diode with the CAL on. If the
> voltage is the same on either "end" as the "between" voltage, that diode
> is shorted. You can just remove them for the time being, the only loss
> is the calibrator function.
>
> Replacement MPN 3404 diodes are available from <www.kitsandparts.com>,
> six (6) for $3.00.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1fued@... wrote:
> > Hi All,
> >
> > I am trying to get my first (broken) TR7 running. The rx is up and running, but no output on TX., when keyed on cw, there is kinda of a chirp when going back to rx. Very little power out, about 1 w. , and digital dial shifts approx 200 hz between tx and rx
> >
> > In testing the 3 pin diodes on the high pass filter board one appears to be bad

according to the testing process (on the tx side). I will order some replacements from Down East....
> >
> > My question is about the pin diodes in the forward board, they have been replaced with fast switching diodes (1n4148. They show no voltage when the calibrator is off, and 4.6v or so across them when calibrator is on, maybe this ok, I dont know.
> >
> > Are the 4148 switching diodes ok for replacing the original MPM 3404 diode, or may this be an additional source of my problem?
> >
> > Help would be appreciated.
> > Thanks,
> > Ed
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
>

3347. Re: [DrakeRadio] FS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 04:05:18 UTC
From: Garey Barrell
Topic: 3345 Message: 3347

Joe -

17M yes, 60M No. The IF of the T-4XB is 5.645 MHz, the PTO covers 5.455 - 4.955, too many bad mixing products. Aside from that, I don't believe the B-Line meets the stability requirements of 60M. You could certainly LISTEN to 60M, there's a chance that one of the rogue mixing products is NOT right on a channel you want to listen to, but transmit?? No.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> I need some clarification, if you please.
>
> I was under the impression that the FS-4 frequency synthesizer, would allow
> me to work 17 meters and 60 meters with my B-Line..
>
> Someone here in my area is now telling me I am wrong.
>
> Yes, No? Who is right?
>
> Thanks!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>

3348. Re: [DrakeRadio] TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 06:13:00 UTC
From: Jim Shorney
Topic: 3336 Message: 3348

Garey Barrell wrote:
> INRAD used to be Fox-Tango! In between it was International Radio.!
> One bought the other, etc., etc., etc. The American way!
I thought it was something like that. The FT 250 seems to be a decent filter, it works better than I expected.

73

-Jim

3349. Re: TR7 PIN DIODES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 06:21:17 UTC
From: w1fued@sbcglobal.net
Topic: 3337 Message: 3349

Hi Jim,
Thanks for the hint......
The 10 volt line was not switching......turned out the pnp switching transistor was bad on exciter board, q307, I think it was...
all I had here was a 2n4125 to put in....but that did the trick. Removing (replacing) the display board was a bit challenging.
130-140 watss out- 100 at 10 meters, just as the book says.
After adjusting the s meter, still only s8 at 10 meters on rx...hope its the pin diode.

Will change out the 2n4148 when I get the pin diodes from Downeast..
#9968 alive again..

Thanks,
Ed

1-A, 2-A, 2-B, 2x2-c, 2nt, R4,R4A, R4B, 2xR4C, T4X, T4XC, 3xsSPR4, SW4A..now TR7 and RV7.

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> Hi Ed,
>
> On Thu, 04 Mar 2010 18:17:47 -0000, w1fued@... wrote:
>
> >I am trying to get my first (broken) TR7 running. The rx is up and running, but no output on TX., when keyed on cw, there is kinda of a chirp when going back to rx. Very little power out, about 1 w. , and digital dial shifts approx 200 hz between tx and rx
>
>
> First off, are your +10T and +10R voltages switching properly?
>
>
> >Are the 4148 switching diodes ok for replacing the original MPM 3404 diode, or may this be an additional source of my problem?
>
>
> I would say no, 4148s are probably not OK. I'm sure they probably tried it at
> some point and found them lacking.
>
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C

> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3350. FS TR-7+ Power Supply RV 7 and MS7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 04:53:49 UTC
From: n5dpk
Topic: 3350 Message: 3350

TR7 is serial 5252. Has all the filters. Power supply and radio has cooling fan. Has the Noise Blanker also. 150 watts output. General coverage receive and transmit has the MARS mod. Works 100 percent. I also have the RV7 remote VFO and MS 7 Speaker. Come with the matching Drake desk mic. Asking 900.00 and split the shipping. Pick up in East TX

Dennis n5dpk@yahoo.com

3351. Re: TR-7 w/ INRAD 250 Hz filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-05 17:30:06 UTC
From: qrpcwop
Topic: 3336 Message: 3351

My next course of action will be to pull the filter and bring it into work next week so I can run a sweep.

I want to exonerate that before trudging ahead.

I could always insert a 1 KHz LPF into the audio line to get rid of the undesired products, but knowing it's still there would keep me wondering what else is showing up in the passband that shouldn't be there, or it it's hitting the AGC.

Al

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Al -
>
> OK. Well the -3V is plenty to turn off the Series PINs, and plenty to
> saturate the Shunt PINs. Signal voltages are millivolts or less, so
> higher reverse bias won't help.
>
> I'd look at grounding of the board and connecting the top and bottom
> ground planes together. I'm not certain, but I believe Drake specified
> 100 dB ultimate rejection for the IF.
>
> Also look at the decoupling electrolytic caps involved..
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

3352. Re: [DrakeRadio] FS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-06 02:00:28 UTC
From: Joe
Topic: 3345 Message: 3352

So...Essentially the FS-4 is an unneeded toy. I would be better off to just spend the money for a set of 17 meter crystals.

Hmmmm.....

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] FS-4

> Joe -
>
> 17M yes, 60M No. The IF of the T-4XB is 5.645 MHz, the PTO covers
> 5.455 - 4.955, too many bad mixing products. Aside from that, I don't
> believe the B-Line meets the stability requirements of 60M. You could
> certainly LISTEN to 60M, there's a chance that one of the rogue mixing
> products is NOT right on a channel you want to listen to, but
> transmit?? No.........

3353. Re: [DrakeRadio] FS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-06 03:15:34 UTC
From: Garey Barrell
Topic: 3345 Message: 3353

Joe -

Yeah, if all you want is 17M, the crystal(s) are a much better idea!
29.1 MHz from any of several reliable suppliers.

International Crystal Mfrs

<http://www.icmfg.com/>

Not always the cheapest, but quality crystals that work. Just tell them
what you want it for and they know the rest.

You might also try

<http://www.mhelectronics.com/>

They no longer make custom crystals, but have a good stock of "standard"
crystals at good prices.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> So...Essentially the FS-4 is an unneeded toy. I would be better off to just
> spend the money for a set of 17 meter crystals.
>
> Hmmmm.....
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> Subject: Re: [DrakeRadio] FS-4
>
>
>
>> Joe -
>>
>> 17M yes, 60M No. The IF of the T-4XB is 5.645 MHz, the PTO covers
>> 5.455 - 4.955, too many bad mixing products. Aside from that, I don't
>> believe the B-Line meets the stability requirements of 60M. You could
>> certainly LISTEN to 60M, there's a chance that one of the rogue mixing

>> products is NOT right on a channel you want to listen to, but
>> transmit?? No.........
>>
>

3354. Looking for 500 hz filter for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-06 03:49:47 UTC
From: w1fued@sbcglobal.net
Topic: 3354 Message: 3354

Looking for 500 hz cw filter for the TR7.
I have a 300 hz filter to trade if interested.

Thanks,
Ed

3355. Drake Items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-06 22:56:24 UTC
From: Ken Simpson, W8EK
Topic: 3355 Message: 3355

Drake items for sale:

Drake TV-3300-LP Low Pass Filter
This is a modern low pass filter to go between your transmitter and antenna, and has been optimized to have more attenuation in the 40 MHz region, where many TVs have their IF. It is good for 1000 Watts "average" according to the manual, and has over 80 db attenuation at 41 MHz. This one looks great, and includes the paper work. $30

Drake TV-5200-LP
This is the more modern version of the Drake TV-1000 Low Pass Filter. This is the filter that may also be used on the low end of six meters, as well as HF. It is good for 1000 Watts average below 30 MHz, and about 200 W up to 52 MHz. It works fine, and is in very nice shape. $35

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has cutouts in the back for antenna, power, etc. It includes the shoulder strap, and is in good shape. $12

Case for Drake TR-22
As above, but for the TR-22. No shoulder strap. $10

3 pin mic plug for TR-22
This is the small 3 pin mic plug that fits the Drake TR-22 mic jack. It is much smaller than most of the mic connectors. I thought these were completely gone, but one appeared from a silent key. This one has been used, but should still be usable some more. $10

Communications Speaker
This 4 inch square speaker is optimized for communications frequencies (300 to 3000 Hz). It is in a black enclosure, and is an 8 ohm speaker. It has a cord with a 1/8 inch (3.5 mm) mono plug on the end.
This one works fine and looks OK also. $15

Microphones:

All of these microphones have been tested and work well.

Shure 401 B, Low Z Hand Microphone
This mic has characteristics similar the the Shure 444 Desk Mic, but this one is a hand mic. It is a controlled magnetic mic, with frequency response tailored for voice

communications. It has a rugged case, and a heavy duty coiled cord. 4 pin connector. With paper work for $40.

Shure 104 C, Low Z hand Microphone
This is a very heavy duty Shure mic. It appears to be new, with stripped and tinned ends that have never been on a connector. It is in its original box, with the original instruction manual. $30

Chrome Low Z Hand Microphone
This mic is chrome plated. My memory says it may have come from a Polycom rig. The mic is a good solid metal case with chrome plating all around, with a black PTT switch and black coiled cord. There are some pits on the chrome; it works fine. $30

Generic Hand Microphone
This is a low impedance hand microphone, black in color.
With 4 pin connector. $25
With no connector. $22

Lafayette EAM-15 dynamic hand microphone
2000 ohm impedance can be used any place a dynamic mic is needed. Stripped and tinned leads.
It works fine, and looks good also. $25

Generic Hi Z Hand Microphone
This hand mic is black in color, and looks like it might have come from a HyGain rig. It has a PTT switch and black coiled cord. $25

DTMF Touch Tone Microphones:

KDK DM TT-1 DTMF Touch Tone Microphone
This mic has a 12 digit touch tone pad on it, along with a switch to turn the pad on and off. I presently has a 4 pin plug on it, and can be used on most any rig. It works fine, and looks great. $35

CES 655 L "Microdialer" DTMF Microphone
You can manual dial a number, or automatically have it stored in the mic, and "speed dial" with this mic. 12 digit touch tone pad on the front, with the microphone part above the pad. This one presently has a 4 pin plug on it, but of course that can be changed. $35

CES 600 L, Universal DTMF microphone
This has a normal touch tone pad on the front, with a low impedance microphone. This one has the 8 pin modular plug (like a computer LAN) on it. This mic has not been used, so it is in really great condition.
With paper work for $40.

Data Signal "Data-Coder 5" touch tone mic
This mic has a 12 digit touchtone pad on it, plus a
normal low impedance microphone. With 4 pin plug.
Like new. $38

Speaker Microphones:

MFJ-287 Speaker Microphone
This was used on a Kenwood TH-225 HT, but it also fits
the TH-21/31/41 series HTs, TH-215, TH-415, as well as
others. It has a 3 conductor 3.5 mm plug and a 2 conductor
2.5 mm plug. $15

Kenwood SMC-24 speaker microphone
Fits Kenwood TR-2400 HT and others. This one looks fine
and works fine. $18

Azden SDX-316
This is the rounder style speaker mic that fits nicely in
the palm of your hand. Has 3.5 mm and 2.5 mm plugs for
Azden, Icom, some Yaesu, and others. $ 20

Cable for straight key
About 3 feet long, with a mono 1/4 inch phone plug on it,
as is used with a straight key. $5
As above, but 1/8 inch (3.5 mm) plug. $5

Cable for paddles
About 3 feet long, and with a 1/4 inch stereo connector
on the end, like used by most rigs. $8
As above, but 1/8 inch (3.5 mm) plug $8

Coax Cable with Type "N" Connectors:
This cable is made of RG-8 coax and is about 6 feet long.
It has a male type "N" connector on each end. $15

Coax connectors and adapters:
Prices are per connector. Several of each are available.
These are NOS (have not been used).

BNC male for coax cable
standard type - $2
crimp on type - $3

Chassis mount BNC female
square mount (uses 4 screws) - $3
screw in type - $4

BNC 90 degree - female to male - $3

BNC "T" - two female and one male - $4

Antenna adapter to fit the BNC connector on the HT
and provide an SO-239 connector that will permit

a PL-259 to be attached. (BNC male to UHF female) $5

UHF Male (PL-259) to BNC female (opposite of above) $5

UHF double female "Barrel connector" (two SO-239 together) $3

UHF "T" connector with two female (SO-239) and one male
(PL-259) connection - $5

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

3356. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-07 20:55:15 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3356

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3357. Sidetone in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-08 17:17:08 UTC
From: randyinaura
Topic: 3357 Message: 3357

I finally finished going through my T-4X in preparation for putting it on the air. I rebuilt the power supply, and replaced the final cathode and screen resistors as well as the meter shunt resistor. It is connected to a R-4A per the T-4X manual. The funny thing is, that when I switch the Function switch to X-CW, a tone is produced in the speaker even if the receiver is off! This is with no key plugged in and the mic either plugged in or not. The only way to silence the tone is to unplug one end of the Anti-VOX cable. Is this normal? Other than this quirk, the rig seems to tune up fine in SSB, except for carrier balance, but that question will be addressed on another thread. Any suggestions would be appreciated, either on or off the list.

73 de K8HRO - Randy

3358. Re: [DrakeRadio] Sidetone in CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-08 21:32:45 UTC
From: Garey Barrell
Topic: 3357 Message: 3358

Randy -

Yup, that's normal. We just went through this somewhere.... :-)

The KEY jack is a "shorting" type, closed when nothing plugged in. Even with the a key plugged in and "open" the KEY lead is shorted with a contact on the TRANSCEIVE switch when it's in the SPOT position to enable the IF and Driver stages. The sidetone is fed through the ANTI-VOX cable to the receiver where it is applied to the primary of the AF OUTPUT transformer. So the receiver does NOT have to be on!

In the T-4XB, the cathode of the ANTI-VOX amplifier is lifted in SPOT to mute the sidetone. Just the way it is (was)! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

randyinaura wrote:
> I finally finished going through my T-4X in preparation for putting it on the air. I rebuilt the power supply, and replaced the final cathode and screen resistors as well as the meter shunt resistor. It is connected to a R-4A per the T-4X manual. The funny thing is, that when I switch the Function switch to X-CW, a tone is produced in the speaker even if the receiver is off! This is with no key plugged in and the mic either plugged in or not. The only way to silence the tone is to unplug one end of the Anti-VOX cable. Is this normal? Other than this quirk, the rig seems to tune up fine in SSB, except for carrier balance, but that question will be addressed on another thread. Any suggestions would be appreciated, either on or off the list.
>
> 73 de K8HRO - Randy
>
>
>

3359. Keeping them cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-09 03:54:58 UTC
From: John
Topic: 3359 Message: 3359

Hi All

I have an excellent Drake R-4A and have done the necessary maintenance to keep the as good as new.
I did buy a really nice R-4C that was loaded, but I went back to my R-4A as it was just better.
I found it nicer to tune, the PTO gearing is so smooth, the noise blanker is the best I have every experienced, far superior to the R-4C and all the controls just make sense.
It turned out not to be a hard choice at all.

I have done a few mods, this one is probably the most important.
Valve receivers for me, are great, I do have a few nice modern receivers but the when the signal are very low and the noise is high the R-4A is the only one that can pull them in.

I use it sparingly as it does get HOT, the transformer is usually about 65 Deg Celsius.
Most of the parts are original, few have been replaced. the main filter cap is impossible to find, so I needed to decrease the heat load on it.

I came up with the simple heat shield.
The transformer still gets hot but the Cap and PTO do not.
I placed some images in the photos area for you to use.

Before the Mod, PTO and Cap were at 65 deg, Celsius
With the shield, PTO and Cap is about 8 Deg above ambient, about 28 Deg C.

This is a heat shield made from scrap corrugated cardboard.
The corrugation holes go for the bottom to the top so a small amount of cooling air helps to keep the cardboard cool.
a few small pieces of double sided foam tape holes the shield off the PTO and the cap.
The shield is about 3mm from the copper surface.
I selected white as the face to the valves as white reflects heat.
The effect is over 40 degrees celsius cooler for both the PTO and the main Cap.
Heating a cap is the best way to dry it out, thus shortening its operational life and the PTO is effected by the heat from the surrounding HOT valves.
A hole was made in the shield to allow the PTO slug free movement

I hope this mod is useful to someone else.

Regards John
XK2XCQ

3360. Re: [DrakeRadio] Keeping them cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-09 04:02:18 UTC
From: Garey Barrell
Topic: 3359 Message: 3360

John -

Cooler is always better! There were four different versions of the
R-4A, what is the serial number of yours? The first two versions have a
tube (valve) Product Detector, the last two have a diode bridge PD.

The main filter cap is, or will soon be, available from

<www.hayseedhamfest.com>

Tom makes very nice replacements for all the Drake receiver in the
Twist-Lok package.

Your heatshield is a very "cool" idea! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

John wrote:
> Hi All
>
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> I did buy a really nice R-4C that was loaded, but I went back to my R-4A as it was just better.
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>
> I hope this mod is useful to someone else.
>
> Regards John
> XK2XCQ
>
>
>

3361. Re: Keeping them cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-09 05:08:38 UTC
From: John
Topic: 3359 Message: 3361

Hi Garey

My R-4A is the 13 valve unit. Serial number 2914

It has the valve Product Detector.

The best detector I have heard, is in the Drake 2B, it is even better than the R-4A.
I just find the 2B a pain to use due to its unique sliding scale, backwards or forwards now which frequency am I on, way to hard for me. But the 2B has a lovely audio and is a very nice receiver.

Thank you about the link to get a replacement cap, as mine is probably a little lower than when it was new.
I am getting a little humm through, I can only hear it when I have headphones on.

Regards John
VK2XCQ

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> Cooler is always better! There were four different versions of the
> R-4A, what is the serial number of yours? The first two versions have a
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>
> The main filter cap is, or will soon be, available from
>
> <www.hayseedhamfest.com>
>
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>
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>
> 73, Garey - K4OAH
> Glen Allen, VA
>
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> > I selected white as the face to the valves as white reflects heat.
> > The effect is over 40 degrees celsius cooler for both the PTO and the main Cap.
> > Heating a cap is the best way to dry it out, thus shortening its operational life and the PTO is effected by the heat from the surrounding HOT valves.
> > A hole was made in the shield to allow the PTO slug free movement
> >
> > I hope this mod is useful to someone else.
> >
> > Regards John
> > XK2XCQ
> >
> >
> >
>

3362. Re: [DrakeRadio] Re: Keeping them cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-09 05:21:45 UTC
From: Jim Shorney
Topic: 3359 Message: 3362

On Tue, 09 Mar 2010 05:08:38 -0000, John wrote:

>
>The best detector I have heard, is in the Drake 2B, it is even better than the R-4A.
>I just find the 2B a pain to use due to its unique sliding scale, backwards or forwards now which frequency am I on, way to hard for me. But the 2B has a lovely audio and is a very nice receiver.

I don't know how they compare, but I do really like the sound of my 2-A. I don't listen to it as much as I should....

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim(dot)exofire(dot)net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3363. Sherwood Engineering web site

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-10 16:23:02 UTC
From: ljh6789
Topic: 3363 Message: 3363

Can't seem to get to this site anymore. Did something happen?

Lee
KC9RFL

3364. Re: Sherwood Engineering web site

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-13 01:52:57 UTC
From: stykemup
Topic: 3363 Message: 3364

http://www.sherweng.com/

--- In DrakeRadio@yahoogroups.com, "ljh6789" <ljh6789@...> wrote:
>
> Can't seem to get to this site anymore. Did something happen?
>
> Lee
> KC9RFL
>

3365. T4XC transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-13 10:59:18 UTC
From: martin.benoit@sympatico.ca
Topic: 3365 Message: 3365

Hello to all

Few weeks ago i got a R4C and a T4XC with very dirty switch.
I clean switches. It came alive.
Now ... i hope ... there is only one problem.
On 15 meters
mode switch on tune output 125 watts. Put the switch on CW and NO output.
On other band it is OK.
Any idea ?
Tnx
Martin

[Non-text portions of this message have been removed]

3366. Re: [DrakeRadio] T4XC transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-13 14:57:28 UTC
From: Garey Barrell
Topic: 3365 Message: 3366

Martin -

This is a very strange problem. Are you increasing the GAIN control on CW? It is sometimes necessary to increase the GAIN control to almost maximum on CW on the higher bands.

The only difference between CW and TUNE operation is the way the signal is generated, and this is identical on ALL bands. If TUNE works, then all the amplifier chain is working normally.

In TUNE mode, the MIC Amp is converted to an audio oscillator and the audio tone generated is applied to the MIC input, (same as whistling into the microphone,) which goes to the balanced modulator and through the rest of the amplifier chain.

In CW mode, a DC bias is applied to the balanced modulator to unbalance it and allow the carrier oscillator to come through. This signal is shifted in frequency from its SSB position between the two filter passbands, to within the LSB filter passband so it can go through and on through the rest of the amplifier chain.

Both of these modes are accomplished in exactly the same way on all bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

martin.benoit@... wrote:
> Hello to all
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> Few weeks ago i got a R4C and a T4XC with very dirty switch.
> I clean switches. It came alive.
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> On 15 meters
> mode switch on tune output 125 watts. Put the switch on CW and NO output.
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> Any idea ?
> Tnx
> Martin
>
>
>

3367. RE: [DrakeRadio] T4XC transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-15 01:05:59 UTC
From: Martin
Topic: 3365 Message: 3367

Tns Gary and Bill i will during the week check all your suggestion and come back.

Tnx for great help.

Martin

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 13 mars 2010 09:57
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC transmit problem

Martin -

This is a very strange problem. Are you increasing the GAIN control on CW? It is sometimes necessary to increase the GAIN control to almost maximum on CW on the higher bands.

The only difference between CW and TUNE operation is the way the signal is generated, and this is identical on ALL bands. If TUNE works, then all the amplifier chain is working normally.

In TUNE mode, the MIC Amp is converted to an audio oscillator and the audio tone generated is applied to the MIC input, (same as whistling into the microphone,) which goes to the balanced modulator and through the rest of the amplifier chain.

In CW mode, a DC bias is applied to the balanced modulator to unbalance it and allow the carrier oscillator to come through. This signal is shifted in frequency from its SSB position between the two filter passbands, to within the LSB filter passband so it can go through and on through the rest of the amplifier chain.

Both of these modes are accomplished in exactly the same way on all bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

martin.benoit@... <mailto:martin.benoit%40sympatico.ca> wrote:
> Hello to all
>
> Few weeks ago i got a R4C and a T4XC with very dirty switch.
> I clean switches. It came alive.
> Now ... i hope ... there is only one problem.

> On 15 meters
> mode switch on tune output 125 watts. Put the switch on CW and NO output.
> On other band it is OK.
> Any idea ?
> Tnx
> Martin
>
>
>

[Non-text portions of this message have been removed]

3368. power supply question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-15 01:26:37 UTC
From: radar4441
Topic: 3368 Message: 3368

I was wondering if any has ever modified a heathkit p/s for use on a drake tr-4. Just pick one up at a local hamfest w/o a power supply. I have a heathkit p/s modified for a swan 175. 73 Bob kb3pet

3369. 2A Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-15 14:15:10 UTC
From: wa4zzw
Topic: 3369 Message: 3369

Did anyone but Drake make a calibrator for the 2A, 2B or 2C?
I bought one at a hamfest that plugs into my 2A with proper connectors but does not look like one made by Drake. It is not the copper color and is a bit taller. It came without a tube and I assumed it would use the same tube. I plugged it in and the filament lit up but it did not work. I will check the tube and crystal but just wondering if anyone knows what I might have. I don't think it's homebrew as it has part numbers and inspection markings.
Bob
Decatur, AL

3370. Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 05:07:08 UTC
From: John
Topic: 3370 Message: 3370

Hi All

I would like to power my R-4A from a car battery.
I have done this with my Eddystone and the noise floor is silence, at full RF and AF with no antenna there is just NO noise.

I would now like to do this to my R-4A, it would be an incredible receiver if the same thing was possible.

Did Drake provide a DC power supply for the R-4A?

If it did, what is its part number?

Does anyone have one they would like to sell?

If there is no such device, I think I will be making one, I just got to try it.

Thanks in advance.

Regards John
VK2XCQ

3371. Re: [DrakeRadio] Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 06:14:14 UTC
From: Mike
Topic: 3370 Message: 3371

John,

Drake built a DC-4 although I it was designed for the TR4 series, nothing specifically designed for the R-4c that I know of. An inverter (12vdc to 120vac) may be a better/cheaper option.

If you need a DC-4 I think I have one, contact me off line at mikestahoe at yahoo dot com.

Mike K7MS

From: John <adams@liveinter.net.au>
To: DrakeRadio@yahoogroups.com
Sent: Mon, March 15, 2010 10:07:08 PM
Subject: [DrakeRadio] Drake R-4A powered by Car battery

Hi All

I would like to power my R-4A from a car battery.
I have done this with my Eddystone and the noise floor is silence, at full RF and AF with no antenna there is just NO noise.

I would now like to do this to my R-4A, it would be an incredible receiver if the same thing was possible.

Did Drake provide a DC power supply for the R-4A?

If it did, what is its part number?

Does anyone have one they would like to sell?

If there is no such device, I think I will be making one, I just got to try it.

Thanks in advance.

Regards John
VK2XCQ

[Non-text portions of this message have been removed]

3372. Re: [DrakeRadio] Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 09:51:02 UTC
From: Gary Stern
Topic: 3370 Message: 3372

I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.

Gary
vk2zbb

From: John <adams@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, 16 March, 2010 4:07:08 PM
Subject: [DrakeRadio] Drake R-4A powered by Car battery

Hi All

I would like to power my R-4A from a car battery.
I have done this with my Eddystone and the noise floor is silence, at full RF and AF with no antenna there is just NO noise.

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If it did, what is its part number?

Does anyone have one they would like to sell?

If there is no such device, I think I will be making one, I just got to try it.

Thanks in advance.

Regards John
VK2XCQ

[Non-text portions of this message have been removed]

3373. Re: Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 12:45:52 UTC
From: John
Topic: 3370 Message: 3373

HI All

I do understand, I will have to do a mod to the power supply, like completely disconnect it, I will leave the parts in place, but it will need to be disconnected just for safety. Or maybe I could use a few diodes to block the supplies from each other.

Just had a look into the R-4A schematic and it does not look too hard.
I need 160VDC at about 70mA
The heater supply is 12.6 VDC at 2.4A, car battery voltage.
I will need to place in parallel a 42ohm resistor with the v7 heater.
So the total is v2,8,6 in series with v7 and the resistor will work off the 12.6v battery.

I don't think I have missed anything.

What do you think, is it possible?

Thanks for looking in.

Regards John
VK2XCQ

--- In DrakeRadio@yahoogroups.com, Gary Stern <eli26e9@...> wrote:
>
> I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.
>
> Gary
> vk2zbb
>
>
>
>
>
> _____
> From: John <adams@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, 16 March, 2010 4:07:08 PM
> Subject: [DrakeRadio] Drake R-4A powered by Car battery
>
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> Hi All
>
> I would like to power my R-4A from a car battery.
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> Does anyone have one they would like to sell?
>
> If there is no such device, I think I will be making one, I just got to try it.
>
> Thanks in advance.
>
> Regards John
> VK2XCQ
>
>
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>
> [Non-text portions of this message have been removed]
>

3374. Re: [DrakeRadio] Re: Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 13:11:18 UTC
From: Gary Stern
Topic: 3370 Message: 3374

I haven't looked at the circuit, BUT..

<quote>
The heater supply is 12.6 VDC at 2.4A, car battery voltage.

/<quote>
VDC ?

Now its a long time since I did my old valve theory, so I cant remember the reason for running valves
with AC instead of DC on the heaters but there is a reason.....

Which actually makes me wonder whether you have tried a "low frequency" inverter to test for noise ?
eg: http://www.jaycar.com.au/productView.asp?ID=MI5180&CATID=8&form=CAT&SUBCATID=680
Actually I wonder how noisy one of these inverters are to start with ?

Gary

From: John <adams@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, 16 March, 2010 11:45:52 PM
Subject: [DrakeRadio] Re: Drake R-4A powered by Car battery

HI All

I do understand, I will have to do a mod to the power supply, like completely disconnect it, I will leave the parts in place, but it will need to be disconnected just for safety.
Or maybe I could use a few diodes to block the supplies from each other.

Just had a look into the R-4A schematic and it does not look too hard.
I need 160VDC at about 70mA
The heater supply is 12.6 VDC at 2.4A, car battery voltage.
I will need to place in parallel a 42ohm resistor with the v7 heater.
So the total is v2,8,6 in series with v7 and the resistor will work off the 12.6v battery.

I don't think I have missed anything.

What do you think, is it possible?

Thanks for looking in.

Regards John
VK2XCQ

--- In DrakeRadio@yahoogro ups.com, Gary Stern <eli26e9@... > wrote:
>

> I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.
>
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> vk2zbb
>
>
>
>
>
> ____________ _________ _________ __
> From: John <adams@...>
> To: DrakeRadio@yahoogro ups.com
> Sent: Tue, 16 March, 2010 4:07:08 PM
> Subject: [DrakeRadio] Drake R-4A powered by Car battery
>
>
> Hi All
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> I would like to power my R-4A from a car battery.
> I have done this with my Eddystone and the noise floor is silence, at full RF and AF with no antenna there is just NO noise.
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> Did Drake provide a DC power supply for the R-4A?
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> Does anyone have one they would like to sell?
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> If there is no such device, I think I will be making one, I just got to try it.
>
> Thanks in advance.
>
> Regards John
> VK2XCQ
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

3375. Re: [DrakeRadio] Re: Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 13:51:25 UTC
From: Garey Barrell
Topic: 3370 Message: 3375

John -

The Drake DC-4 Power Supply has a 115VAC outlet to drive the R-4 series
of receivers. 115VAC @1.3A.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

John wrote:
> HI All
>
> I do understand, I will have to do a mod to the power supply, like completely disconnect
it, I will leave the parts in place, but it will need to be disconnected just for safety.
> Or maybe I could use a few diodes to block the supplies from each other.
>
> Just had a look into the R-4A schematic and it does not look too hard.
> I need 160VDC at about 70mA
> The heater supply is 12.6 VDC at 2.4A, car battery voltage.
> I will need to place in parallel a 42ohm resistor with the v7 heater.
> So the total is v2,8,6 in series with v7 and the resistor will work off the 12.6v
battery.
>
> I don't think I have missed anything.
>
> What do you think, is it possible?
>
> Thanks for looking in.
>
> Regards John
> VK2XCQ
>
> --- In DrakeRadio@yahoogroups.com, Gary Stern<eli26e9@...> wrote:
>
>> I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.
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>> Gary
>> vk2zbb
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>> _____

>> From: John<adams@...>
>> To: DrakeRadio@yahoogroups.com
>> Sent: Tue, 16 March, 2010 4:07:08 PM
>> Subject: [DrakeRadio] Drake R-4A powered by Car battery
>>
>>
>> Hi All
>>
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>> If it did, what is its part number?
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>> Does anyone have one they would like to sell?
>>
>> If there is no such device, I think I will be making one, I just got to try it.
>>
>> Thanks in advance.
>>
>> Regards John
>> VK2XCQ
>

3376. tr-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 14:15:18 UTC
From: bob kasparek
Topic: 3376 Message: 3376

Does anyone know any place to get a replacement slide switch for the tr-4. The one i'm looking for is the transceiver/receiver next to v-8. Thanks Bob kb3pet

Real Radios Glow In The Dark!!

[Non-text portions of this message have been removed]

3377. Re: Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 23:39:16 UTC
From: John
Topic: 3370 Message: 3377

HI Gary

You are very right there was a reason why AC was used for the heater.
Thanks for the reminder, I studied this a long time ago.
A DC powered heater get very hot in a small section of the heater element instead of over a larger section of the heater element. DC can reduce the life span of a heater by hundreds if not thousands of hours.
I will not be using a separate DC supply.

The Jaycar low frequency inverter is not in the store where I live, unless I buy it, so testing it is not possible.

I just read from Garey - K4OAH, that the DC-4 outputs 115Vac @1.3A.
So I think I will be getting a DC-4 to try out.

Does anyone here got a working DC-4?

Regards John
VK2XCQ

--- In DrakeRadio@yahoogroups.com, Gary Stern <eli26e9@...> wrote:
>
> I haven't looked at the circuit, BUT..
>
> <quote>
> The heater supply is 12.6 VDC at 2.4A, car battery voltage.
>
> /<quote>
> VDC ?
>
> Now its a long time since I did my old valve theory, so I cant remember the reason for running valves
> with AC instead of DC on the heaters but there is a reason.....
>
> Which actually makes me wonder whether you have tried a "low frequency" inverter to test for noise ?
> eg: http://www.jaycar.com.au/productView.asp?ID=MI5180&CATID=8&form=CAT&SUBCATID=680
> Actually I wonder how noisy one of these inverters are to start with ?
>
>
> Gary
>
>
> _____
> From: John <adams@...>
> To: DrakeRadio@yahoogroups.com

> Sent: Tue, 16 March, 2010 11:45:52 PM
> Subject: [DrakeRadio] Re: Drake R-4A powered by Car battery
>
>
> HI All
>
> I do understand, I will have to do a mod to the power supply, like completely disconnect it, I will leave the parts in place, but it will need to be disconnected just for safety.
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> I will need to place in parallel a 42ohm resistor with the v7 heater.
> So the total is v2,8,6 in series with v7 and the resistor will work off the 12.6v battery.
>
> I don't think I have missed anything.
>
> What do you think, is it possible?
>
> Thanks for looking in.
>
> Regards John
> VK2XCQ
>
> --- In DrakeRadio@yahoogro ups.com, Gary Stern <eli26e9@ > wrote:
> >
> > I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.
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> >
> >
> >
> > _____ _____ _____ __
> > From: John <adams@>
> > To: DrakeRadio@yahoogro ups.com
> > Sent: Tue, 16 March, 2010 4:07:08 PM
> > Subject: [DrakeRadio] Drake R-4A powered by Car battery
> >
> >
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> >
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> > I would now like to do this to my R-4A, it would be an incredible receiver if the same thing was possible.
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> > Regards John
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

3378. Re: 2A Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-16 23:51:30 UTC
From: dean_k5dh
Topic: 3369 Message: 3378

Bob,

The model 2AC was the matching plug-in calibrator for all of the 2-line receivers. They're scarce and "spendy" these days, but you can occasionally find them on eBay.

My current 2B came with a homebuilt calibrator that plugs into the normal socket. It doesn't look anything like the "real thing", but it works just fine. I've built them myself in the past (I've owned many 2B's over the years!).

Your calibrator may have been adapted from some other rig, since it appears to be factory made. To see what you have, take the calibrator apart and draw out a schematic, then compare that to the Drake schematic (it's in your receiver's manual).

Since you got no output, the crystal may be bad, or you may be using the wrong tube. If you have a 100 KHz calibrator in some other rig, or perhaps one of your friends has one, you can use it to test your crystal. There's no guarantee the crystal will work in a potentially different circuit, but the chances are reasonably good.

Worst case: disassemble and rebuild your calibrator to match the Drake schematic, and use the correct tube (6BZ6).

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "wa4zzw" <rwilson@...> wrote:
>
> Did anyone but Drake make a calibrator for the 2A, 2B or 2C?
> I bought one at a hamfest that plugs into my 2A with proper connectors but does not look like one made by Drake. It is not the copper color and is a bit taller. It came without a tube and I assumed it would use the same tube. I plugged it in and the filament lit up but it did not work. I will check the tube and crystal but just wondering if anyone knows what I might have. I don't think it's homebrew as it has part numbers and inspection markings.
> Bob
> Decatur, AL
>

3379. Wanted: 2B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-17 00:04:05 UTC
From: dean_k5dh
Topic: 3379 Message: 3379

Hi gang,

I bought a 2B receiver at a hamfest this past weekend. I didn't need one, but I couldn't resist it for $120. It works very well, but it ain't the prettiest mare at the horse show. The cabinet will need to be stripped and painted. The chassis is covered with a haze of rust that will not clean up. The set has been subjected to some very poor quality repairs and a few minor modifications, all of which I intend to correct. The audio output transformer has been replaced with a generic part that is much larger than the original and is just cobbled into the chassis; it works, but it sure is ugly! Three of the skirted knobs are cracked.

So, to get to the point, I am in need of an original audio output transformer and three original knobs. If you have any or all of these parts available, please contact me and let's make a deal. If you intend to try to cover your kids' college tuition by selling me these parts, don't contact me. (hi!)

By the way, I have a clean, working 2A/2B S-meter in my parts stash that I would be willing to trade even-up for what I need.

73,
Dean K5DH

3380. Re: [DrakeRadio] Re: Drake R-4A powered by Car battery

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-17 00:12:10 UTC
From: Gary Stern
Topic: 3370 Message: 3380

Thanks for the reminder John....
(
I think I have started to suffer from craft disease - Cant remember a f**king thing.
Mind you its around 35+ years since I studied valves.
)

I do have a DC-4 but not the cables :-(

From the circuit its just an inverter supply running 330Hz SQUARE WAVE.
The 110 VAC is only rated if the other outputs are NOT used.

I always run my computer systems on UPS, so I intend to do the same for my
home ham station, I obtained the DC-4 to reduce inverter load, just have to sort out
cables.

73
Gary

From: John <adams@....au>
To: DrakeRadio@yahoogroups.com
Sent: Wed, 17 March, 2010 10:39:16 AM
Subject: [DrakeRadio] Re: Drake R-4A powered by Car battery

HI Gary

You are very right there was a reason why AC was used for the heater.
Thanks for the reminder, I studied this a long time ago.
A DC powered heater get very hot in a small section of the heater element instead of over a larger section of the heater element. DC can reduce the life span of a heater by hundreds if not thousands of hours.
I will not be using a separate DC supply.

The Jaycar low frequency inverter is not in the store where I live, unless I buy it, so testing it is not possible.

I just read from Garey - K4OAH, that the DC-4 outputs 115Vac @1.3A.
So I think I will be getting a DC-4 to try out.

Does anyone here got a working DC-4?

Regards John
VK2XCQ

--- In DrakeRadio@yahoogro ups.com, Gary Stern <eli26e9@... > wrote:
>
> I haven't looked at the circuit, BUT..
>

> <quote>
> The heater supply is 12.6 VDC at 2.4A, car battery voltage.
>
> /<quote>
> VDC ?
>
> Now its a long time since I did my old valve theory, so I cant remember the reason for running valves
> with AC instead of DC on the heaters but there is a reason.....
>
> Which actually makes me wonder whether you have tried a "low frequency" inverter to test for noise ?
> eg: http://www.jaycar. com.au/productVi ew.asp?ID= MI5180&CATID= 8&form=CAT& SUBCATID= 680
> Actually I wonder how noisy one of these inverters are to start with ?
>
>
> Gary
>
>
> _____ _____ _____ __
> From: John <adams@...>
> To: DrakeRadio@yahoogro ups.com
> Sent: Tue, 16 March, 2010 11:45:52 PM
> Subject: [DrakeRadio] Re: Drake R-4A powered by Car battery
>
>
> HI All
>
> I do understand, I will have to do a mod to the power supply, like completely disconnect it, I will leave the parts in place, but it will need to be disconnected just for safety.
> Or maybe I could use a few diodes to block the supplies from each other.
>
> Just had a look into the R-4A schematic and it does not look too hard.
> I need 160VDC at about 70mA
> The heater supply is 12.6 VDC at 2.4A, car battery voltage.
> I will need to place in parallel a 42ohm resistor with the v7 heater.
> So the total is v2,8,6 in series with v7 and the resistor will work off the 12.6v battery.
>
> I don't think I have missed anything.
>
> What do you think, is it possible?
>
> Thanks for looking in.
>
> Regards John
> VK2XCQ
>
> --- In DrakeRadio@yahoogro ups.com, Gary Stern <eli26e9@ > wrote:

> >
> > I would have thought it might be a bit harder seeing the R-4A uses an internal PSU.
> >
> > Gary
> > vk2zbb
> >
> >
> >
> >
> >
> > ____________ _________ _________ __
> > From: John <adams@>
> > To: DrakeRadio@yahoogro ups.com
> > Sent: Tue, 16 March, 2010 4:07:08 PM
> > Subject: [DrakeRadio] Drake R-4A powered by Car battery
> >
> >
> > Hi All
> >
> > I would like to power my R-4A from a car battery.
> > I have done this with my Eddystone and the noise floor is silence, at full RF and AF with no antenna there is just NO noise.
> >
> > I would now like to do this to my R-4A, it would be an incredible receiver if the same thing was possible.
> >
> > Did Drake provide a DC power supply for the R-4A?
> >
> > If it did, what is its part number?
> >
> > Does anyone have one they would like to sell?
> >
> > If there is no such device, I think I will be making one, I just got to try it.
> >
> > Thanks in advance.
> >
> > Regards John
> > VK2XCQ
> >
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
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>
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>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

3381. Re: Wanted: 2B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-17 19:09:00 UTC
From: querencias
Topic: 3379 Message: 3381

Dean, sorry but have no spare parts for you but I will recommend that you look up Hayseed parts on the net as they have a really bitchen replacement for the PS filters -it's beautiful, sparkles and scintillates and costs about $30 - I put one in my 2B along with their supplied audio tube cathode bypass cap and it works now better than ever before.

Good luck with the parts hunt

If you find a way to restore the copper finish on the chassis please let me know

what a great little radio the 2B is

--- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@...> wrote:
>
> Hi gang,
>
> I bought a 2B receiver at a hamfest this past weekend. I didn't need one, but I couldn't resist it for $120. It works very well, but it ain't the prettiest mare at the horse show. The cabinet will need to be stripped and painted. The chassis is covered with a haze of rust that will not clean up. The set has been subjected to some very poor quality repairs and a few minor modifications, all of which I intend to correct. The audio output transformer has been replaced with a generic part that is much larger than the original and is just cobbled into the chassis; it works, but it sure is ugly! Three of the skirted knobs are cracked.
>
> So, to get to the point, I am in need of an original audio output transformer and three original knobs. If you have any or all of these parts available, please contact me and let's make a deal. If you intend to try to cover your kids' college tuition by selling me these parts, don't contact me. (hi!)
>
> By the way, I have a clean, working 2A/2B S-meter in my parts stash that I would be willing to trade even-up for what I need.
>
> 73,
> Dean K5DH
>

3382. Repro Dials!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-17 21:05:47 UTC
From: Garey Barrell
Topic: 3382 Message: 3382

I took a flyer today and sent an email to "RADIODAZE", the maker of repro dials for "antique" radios, to see if they would be interested in making them.

I just got back an enthusiastic reply that they would "love to make these" if they could get good artwork to work from.!

I have a B-Series that I can get loose, (25 kHz marks,) so I'll see what happens.

This has been a problem for quite a while, and I think would be welcomed by many with darkened, scratched or broken dials.

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3383. 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-18 03:15:38 UTC
From: Paul Kraemer
Topic: 3383 Message: 3383

Dean
The 2B is possibly one of the finest engineered radios of our time

#1 That corrosion on the chassis---it doesn't come off.
The steel chassis was copper plated and then protected with a clear lacquer finish.
In time the lacquer dteriorated and the corrosion developed in thin spots in the plating. After years of trying things that don't work I came up with :
Wash with mild soap and water, rinse and dry.
Then just use Meguires paste auto polish. Do a small area meticulously with a fine toothbrush and Q tips, polish, do over, polish some more and move on.
The Meguires has ammonia and cleans through the lacquer with out removing it. It will make the bad look not so bad. It wont fix it but it will improve it drastically. And, it will keep it from progressing.
Once you start being agressive and the lacquer goes you can very shiny copper that will look like crap and the lettering will go too.

#2 You can easily re-can that lytic in a couple half hour stints for a couple of dollars. It is easy to do a pro job that can't be detected.

Good luck on the project
2B are really incredible radios
Paul K0UYA

3384. Re: Wanted: 2B parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-18 19:17:40 UTC
From: jb
Topic: 3379 Message: 3384

Hey Dean,

You may be in luck. Was looking thru some archives here and stumbled
across this:

For Sale: Drake 2B NOS Power transformer

Subject line says it all- bought this when Drake was selling off their
older
parts.
$50 shipped.

Dale W4OP

This was sent on Feb 20. He may still have it. His e-mail addy was not
readable but maybe someone here can help there....moderator?

God bless

73

jb

kg6biw

--- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@...> wrote:
>
> Dean, sorry but have no spare parts for you but I will recommend that
you look up Hayseed parts on the net as they have a really bitchen
replacement for the PS filters -it's beautiful, sparkles and
scintillates and costs about $30 - I put one in my 2B along with their
supplied audio tube cathode bypass cap and it works now better than ever
before.
>
> Good luck with the parts hunt
>
> If you find a way to restore the copper finish on the chassis please
let me know
>
> what a great little radio the 2B is
>
> --- In DrakeRadio@yahoogroups.com, "dean_k5dh" k5dh@ wrote:
> >
> > Hi gang,
> >
> > I bought a 2B receiver at a hamfest this past weekend. I didn't need
one, but I couldn't resist it for $120. It works very well, but it ain't

the prettiest mare at the horse show. The cabinet will need to be stripped and painted. The chassis is covered with a haze of rust that will not clean up. The set has been subjected to some very poor quality repairs and a few minor modifications, all of which I intend to correct. The audio output transformer has been replaced with a generic part that is much larger than the original and is just cobbled into the chassis; it works, but it sure is ugly! Three of the skirted knobs are cracked.
> >
> > So, to get to the point, I am in need of an original audio output transformer and three original knobs. If you have any or all of these parts available, please contact me and let's make a deal. If you intend to try to cover your kids' college tuition by selling me these parts, don't contact me. (hi!)
> >
> > By the way, I have a clean, working 2A/2B S-meter in my parts stash that I would be willing to trade even-up for what I need.
> >
> > 73,
> > Dean K5DH
> >
>

[Non-text portions of this message have been removed]

3385. Re: Repro Dials!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-18 22:14:59 UTC
From: PaulG
Topic: 3382 Message: 3385

Repro 'B' Dials would be great! I'll take two....

Paul

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> I took a flyer today and sent an email to "RADIODAZE", the maker of
> repro dials for "antique" radios, to see if they would be interested in
> making them.
>
> I just got back an enthusiastic reply that they would "love to make
> these" if they could get good artwork to work from.!
>
> I have a B-Series that I can get loose, (25 kHz marks,) so I'll see what
> happens.
>
> This has been a problem for quite a while, and I think would be welcomed
> by many with darkened, scratched or broken dials.
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

3386. Re: 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-19 01:35:09 UTC
From: dean_k5dh
Topic: 3383 Message: 3386

Hi Paul,

I agree that the 2B is a wonderful piece of engineering. So much performance from such a simple receiver! Straightforward design, easy to operate, good sensitivity and selectivity, surprising stability... does it get any better than that? Not for the price.

The top surface of my 2B's chassis is badly rusted, and there's no hope for it. There's virtually no copper plating left. The entire top surface is either rusted or has "black spot". I'll do my best to clean it up a bit. Underneath, the chassis shines like new (as if that really matters?).

I do intend to rebuild the filter cap. I just need to get to the local parts emporium and pick up some suitable caps. I'll try to get down there on Saturday morning.

Still looking for an AUDIO transformer (my power transformer's fine) and three skirted knobs. If I can't find some knobs, I'm going to temporarily replace all of them with 4-line knobs from my parts stash.

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> Dean
> The 2B is possibly one of the finest engineered radios of our time
>
> #1 That corrosion on the chassis---it doesn't come off.
> The steel chassis was copper plated and then protected with a clear lacquer
> finish.
> In time the lacquer dteriorated and the corrosion developed in thin spots in
> the plating. After years of trying things that don't work I came up with :
> Wash with mild soap and water, rinse and dry.
> Then just use Meguires paste auto polish. Do a small area meticulously with
> a fine toothbrush and Q tips, polish, do over, polish some more and move on.
> The Meguires has ammonia and cleans through the lacquer with out removing
> it. It will make the bad look not so bad. It wont fix it but it will improve
> it drastically. And, it will keep it from progressing.
> Once you start being agressive and the lacquer goes you can very shiny
> copper that will look like crap and the lettering will go too.
>
> #2 You can easily re-can that lytic in a couple half hour stints for a
> couple of dollars. It is easy to do a pro job that can't be detected.
>
> Good luck on the project
> 2B are really incredible radios
> Paul K0UYA

>

3387. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-21 20:02:41 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3387

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3388. Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 13:26:14 UTC
From: w4mjr
Topic: 3388 Message: 3388

I have just bought a nice looking set of Drake 4 B Twins. After giving a good cleaning on all switches and contacts I now have them on the air and had good reports with them on CW. I've noticed a low mic gain on the T-4XB though. I'm using a Shure 444 that I have on my Drake TR-4cW/RIT. I know the finals are good. Voice peaks only about 40 watts using a Mirage MP-1 on the T-4XB compared to 120 watt peaks of the TR-4cW. The transmitter tunes fine with 100 watts input pwr. Is this normal for the voice peaks to be this low ? Bye the way the R-4B receiver is a pleasure to listen too.
Thanks,
Mike W4MJR

3389. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 15:01:03 UTC
From: Richard Knoppow
Topic: 3388 Message: 3389

----- Original Message -----
From: "w4mjr" <w4mjr@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 22, 2010 6:26 AM
Subject: [DrakeRadio] Drake T-4XB low mic gain

>I have just bought a nice looking set of Drake 4 B Twins.
>After giving a good cleaning on all switches and contacts I
>now have them on the air and had good reports with them on
>CW.
> I've noticed a low mic gain on the T-4XB though. I'm using
> a Shure 444 that I have on my Drake TR-4cW/RIT. I know the
> finals are good. Voice peaks only about 40 watts using a
> Mirage MP-1 on the T-4XB compared to 120 watt peaks of the
> TR-4cW. The transmitter tunes fine with 100 watts input
> pwr. Is this normal for the voice peaks to be this low ?
> Bye the way the R-4B receiver is a pleasure to listen too.
> Thanks,
> Mike W4MJR
>
I also have exactly this problem. I've changed tubes
and checked for bad caps, etc. At first the problem was
intermittant. A curious thing is that gain is more than
adequate for AM. I am going to try some things later today
and will report if I am sucessful in finding the problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3390. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 18:54:00 UTC
From: Garey Barrell
Topic: 3388 Message: 3390

Richard Knoppow wrote:
> ----- Original Message -----
> From: "w4mjr"<w4mjr@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Monday, March 22, 2010 6:26 AM
> Subject: [DrakeRadio] Drake T-4XB low mic gain
>
>
>
>> I have just bought a nice looking set of Drake 4 B Twins.
>> After giving a good cleaning on all switches and contacts I
>> now have them on the air and had good reports with them on
>> CW.
>> I've noticed a low mic gain on the T-4XB though. I'm using
>> a Shure 444 that I have on my Drake TR-4cW/RIT. I know the
>> finals are good. Voice peaks only about 40 watts using a
>> Mirage MP-1 on the T-4XB compared to 120 watt peaks of the
>> TR-4cW. The transmitter tunes fine with 100 watts input
>> pwr. Is this normal for the voice peaks to be this low ?
>> Bye the way the R-4B receiver is a pleasure to listen too.
>> Thanks,
>> Mike W4MJR
>>
>>
> I also have exactly this problem. I've changed tubes
> and checked for bad caps, etc. At first the problem was
> intermittant. A curious thing is that gain is more than
> adequate for AM. I am going to try some things later today
> and will report if I am sucessful in finding the problem.
>
>
>

What do you get in TUNE mode???

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3391. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 22:08:00 UTC
From: Richard Knoppow
Topic: 3388 Message: 3391

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 22, 2010 11:54 AM
Subject: Re: [DrakeRadio] Drake T-4XB low mic gain

>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From: "w4mjr"<w4mjr@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Monday, March 22, 2010 6:26 AM
>> Subject: [DrakeRadio] Drake T-4XB low mic gain
>>
>>
>>
>>> I have just bought a nice looking set of Drake 4 B
>>> Twins.
>>> After giving a good cleaning on all switches and
>>> contacts I
>>> now have them on the air and had good reports with them
>>> on
>>> CW.
>>> I've noticed a low mic gain on the T-4XB though. I'm
>>> using
>>> a Shure 444 that I have on my Drake TR-4cW/RIT. I know
>>> the
>>> finals are good. Voice peaks only about 40 watts using a
>>> Mirage MP-1 on the T-4XB compared to 120 watt peaks of
>>> the
>>> TR-4cW. The transmitter tunes fine with 100 watts input
>>> pwr. Is this normal for the voice peaks to be this low ?
>>> Bye the way the R-4B receiver is a pleasure to listen
>>> too.
>>> Thanks,
>>> Mike W4MJR
>>>
>>>
>> I also have exactly this problem. I've changed
>> tubes
>> and checked for bad caps, etc. At first the problem was
>> intermittant. A curious thing is that gain is more than
>> adequate for AM. I am going to try some things later
>> today
>> and will report if I am sucessful in finding the problem.
```

>>
>>
>>
>
> What do you get in TUNE mode???
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
I am not sure how much power should show up in tune. I
can measure the voltage at the modulator if that helps. I
can get up to about 80 watts out, much less than in CW but I
thought that was delibrately limited by the ALC. The
waveform at the modulator is a sine wave until I turn the
gain up past the point where the power no longer goes up,
then it begins to flat top a little. I think the ALC should
not affect this point, its later in the chain. I tried
bridging C135, it didn't seem to make any difference but I
plan on replacing it later since it couples the audio, both
tune oscillator and mic audio to the modulator. It just
seems suspicious but, of course, there could be something
else also. I also want to replace the coupling caps earlier
in the circuit but those should affect the gain for AM too,
I think. I may be missing something obvious, wouldn't be the
first time.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3392. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 22:18:27 UTC
From: Garey Barrell
Topic: 3388 Message: 3392

```
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
>
>
>> Richard Knoppow wrote:
>>
>>> ----- Original Message -----
>>> From: "w4mjr"<w4mjr@...>
>>>
>>>
>>>> I have just bought a nice looking set of Drake 4 B
>>>> Twins.
>>>> After giving a good cleaning on all switches and
>>>> contacts I
>>>> now have them on the air and had good reports with them
>>>> on
>>>> CW.
>>>> I've noticed a low mic gain on the T-4XB though. I'm
>>>> using
>>>> a Shure 444 that I have on my Drake TR-4cW/RIT. I know
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>>>> finals are good. Voice peaks only about 40 watts using a
>>>> Mirage MP-1 on the T-4XB compared to 120 watt peaks of
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>>>> TR-4cW. The transmitter tunes fine with 100 watts input
>>>> pwr. Is this normal for the voice peaks to be this low ?
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>>>> too.
>>>> Thanks,
>>>> Mike W4MJR
>>>>
>>>>
>>>>
>>> I also have exactly this problem. I've changed
>>> tubes
>>> and checked for bad caps, etc. At first the problem was
>>> intermittant. A curious thing is that gain is more than
>>> adequate for AM. I am going to try some things later
>>> today
>>> and will report if I am sucessful in finding the problem.
>>>
>>>
>>>
>>>
```

> I am not sure how much power should show up in tune. I
> can measure the voltage at the modulator if that helps. I
> can get up to about 80 watts out, much less than in CW but I
> thought that was delibrately limited by the ALC. The
> waveform at the modulator is a sine wave until I turn the
> gain up past the point where the power no longer goes up,
> then it begins to flat top a little. I think the ALC should
> not affect this point, its later in the chain. I tried
> bridging C135, it didn't seem to make any difference but I
> plan on replacing it later since it couples the audio, both
> tune oscillator and mic audio to the modulator. It just
> seems suspicious but, of course, there could be something
> else also. I also want to replace the coupling caps earlier
> in the circuit but those should affect the gain for AM too,
> I think. I may be missing something obvious, wouldn't be the
> first time.
>

Richard -

You should see about 120 - 130 Watts output in TUNE, flattening out by ALC, depending upon the condition of the Final tubes, power supply, etc.

C135 is _definitely_ a suspect. Leakage would apply "some" DC voltage to the BM, not good. Bridging it of course would make no difference in the leakage.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3393. Re: Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 22:37:27 UTC
From: w4mjr
Topic: 3388 Message: 3393

Garey here is my reading in tune mode :
100 watts input = .28 plate meter reading on T-4XB
Bias set on AC-4 like manual reads = 1/4 below .1 plate

Just tried it on AM mode with 100 watts input and when I just key the mic without speaking watt meter reads 40 watts and then when I speak with long words the watt meter average goes up to about 80 watts.

Mike W4MJR

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> Richard Knoppow wrote:
> > ----- Original Message -----
> > From: "w4mjr"<w4mjr@...>
> > To:<DrakeRadio@yahoogroups.com>
> > Sent: Monday, March 22, 2010 6:26 AM
> > Subject: [DrakeRadio] Drake T-4XB low mic gain
> > >
> > >
> > >
> >> I have just bought a nice looking set of Drake 4 B Twins.
> >> After giving a good cleaning on all switches and contacts I
> >> now have them on the air and had good reports with them on
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> >> I've noticed a low mic gain on the T-4XB though. I'm using
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> >> TR-4cW. The transmitter tunes fine with 100 watts input
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> >> Bye the way the R-4B receiver is a pleasure to listen too.
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> >>
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> > and checked for bad caps, etc. At first the problem was
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> > adequate for AM. I am going to try some things later today
> > and will report if I am sucessful in finding the problem.
> > >
> > >
> > >
>

> What do you get in TUNE mode???
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

3394. Copper chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-22 23:45:10 UTC
From: R
Topic: 3394 Message: 3394

Greetings everyone,
I have a copper chassis that's in pretty sad shape. My thought was to strip all the components off of it, have it blasted and then powder coated. Any thoughts?

Thanks,
Ray

3395. Re: [DrakeRadio] Copper chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-23 01:22:34 UTC
From: Richard Knoppow
Topic: 3394 Message: 3395

----- Original Message -----
From: "R" <RSumperl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 22, 2010 4:45 PM
Subject: [DrakeRadio] Copper chassis

> Greetings everyone,
> I have a copper chassis that's in pretty sad shape. My
> thought was to strip all the components off of it, have it
> blasted and then powder coated. Any thoughts?
>
>
> Thanks,
> Ray
>
If your going to that much trouble perhaps you can find
someone to copper plate it again. I think its necessary to
copper plate before chrome plating, at least its worth
checking with someone who does that.
The whole idea of copper plating is to lower the
resistance of the chassis for RF. Skin effect tends to
concentrate the current in the surface of the conductor so
the idea here is the same as with copper-clad steel wire for
antennas, nearly all the current flows in the copper skin,
almost none in the steel core. I have no idea how much
actual difference this makes in a chassis but Drake chose to
do it and I think they were pretty cost concious. Where it
counts they used high quality components.

--
Richard Knoppow
Los Angeles, CA, USA
dickburk@...

3396. Re: [DrakeRadio] Re: Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-23 02:28:57 UTC
From: Garey Barrell
Topic: 3388 Message: 3396

Mike -

What OUTPUT power are you getting in TUNE? Bias should be 1-1/2
divisions below 0.1A

AM power SHOULD only be 40W or less input with no modulation. The AM is
a controlled carrier type, meaning that the carrier power increases with
modulation.

280 mA at 650V is 180W of INPUT power, for which I would expect about
100W of OUTPUT power.

With good finals and proper alignment, you should get ~120-130W of
OUTPUT power and about 340 mA of cathode current.
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

> Garey here is my reading in tune mode :
> 100 watts input = .28 plate meter reading on T-4XB
> Bias set on AC-4 like manual reads = 1/4 below .1 plate
>
> Just tried it on AM mode with 100 watts input and when I just key the mic without
speaking watt meter reads 40 watts and then when I speak with long words the watt meter
average goes up to about 80 watts.
>
> Mike W4MJR
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>>
>> Richard Knoppow wrote:
>>
>>> ----- Original Message -----
>>> From: "w4mjr"<w4mjr@...>
>>> To:<DrakeRadio@yahoogroups.com>
>>> Sent: Monday, March 22, 2010 6:26 AM
>>> Subject: [DrakeRadio] Drake T-4XB low mic gain
>>>
>>>
>>>
>>>
>>>> I have just bought a nice looking set of Drake 4 B Twins.
>>>> After giving a good cleaning on all switches and contacts I

>>>> now have them on the air and had good reports with them on
>>>> CW.
>>>> I've noticed a low mic gain on the T-4XB though. I'm using
>>>> a Shure 444 that I have on my Drake TR-4cW/RIT. I know the
>>>> finals are good. Voice peaks only about 40 watts using a
>>>> Mirage MP-1 on the T-4XB compared to 120 watt peaks of the
>>>> TR-4cW. The transmitter tunes fine with 100 watts input
>>>> pwr. Is this normal for the voice peaks to be this low ?
>>>> Bye the way the R-4B receiver is a pleasure to listen too.
>>>> Thanks,
>>>> Mike W4MJR
>>>>
>>>>
>>>>
>>> I also have exactly this problem. I've changed tubes
>>> and checked for bad caps, etc. At first the problem was
>>> intermittant. A curious thing is that gain is more than
>>> adequate for AM. I am going to try some things later today
>>> and will report if I am sucessful in finding the problem.
>>>
>>>
>>>
>>>
>> What do you get in TUNE mode???
>>
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
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3397. Re: [DrakeRadio] Copper chassis

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-23 02:37:32 UTC
From: Garey Barrell
Topic: 3394 Message: 3397

Ray -

If I was going to go to all that trouble, I'd have it stripped and
replated with copper!!

> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

> Greetings everyone,
> I have a copper chassis that's in pretty sad shape. My thought was to strip all the components off of it, have it blasted and then powder coated. Any thoughts?
>
>
> Thanks,
> Ray
>

3398. Drake TR-4 AC-4 hum issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-24 05:40:41 UTC
From: Eric
Topic: 3398 Message: 3398

My Tr-4 has started to have a hum on transmit on SSB. So im guessing the AC-4 caps are going bad? I already ordered a kit from the Heathkit Store to rebuild the supply.

3399. Re: [DrakeRadio] Drake TR-4 AC-4 hum issue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-24 13:28:25 UTC
From: Garey Barrell
Topic: 3398 Message: 3399

Eric -

Most likely. If you use the transceiver, don't leave it on and
unattended until you install the AC-4R kit. You're on the right track!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Eric wrote:
> My Tr-4 has started to have a hum on transmit on SSB. So im guessing the AC-4 caps are going bad? I already ordered a kit from the Heathkit Store to rebuild the supply.
>
>
>

3400. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 05:42:30 UTC
From: Richard Knoppow
Topic: 3388 Message: 3400

>
> You should see about 120 - 130 Watts output in TUNE,
> flattening out by
> ALC, depending upon the condition of the Final tubes,
> power supply, etc.
>
> C135 is _definitely_ a suspect. Leakage would apply
> "some" DC voltage
> to the BM, not good. Bridging it of course would make no
> difference in
> the leakage.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

I measured this using a dummy antenna and a General Radio 1800A RF voltmeter. I also get approximately the same reading using a Tek scope. The meter or scope is connected to a T in the coax. In the case of the GR meter the entire thing is continuously shielded. I measured the impedance of the dummy load using a GR RF impedance bridge and its very close to 50 ohms non-reactive.
On 80 meters, at about 3.700 khz I get about 109 watts in tune going up to about 135 watts in CW. I checked it at 28,700 and get much the same power there also. These are new tubes, NOS Sylvania. I managed to get them neutralized on 10 meters. I've replaced the cathode and screen resistors on the finals. In each case one was near the right value and the other quite high. I think the high ones were on the same side. No sign of overheating on them.
I also replaced R-36. In my TX it was marked 2.7 ohms but measured 4.4 ohms. I replaced it with one of the original value. I also replaced R 26 which is marked 680 ohms but measured nearly 900. It showed no sign of overheating. I also replaced C-135 with no effect, the old one checks good but now has very short leads on it :-) In the past I replaced the meter shunt with a metal film resistor of the original value.
Before checking the power levels I set the bias adjustment (in SSB with the gain at zero and a clip lead to actuate the PTT.

I get about 4.4 V P-P RF at the center tap of the
carrier null pot.
I have also performed the complete tune up procedure
for the IF and driver stages.
BTW, I think I wrote you before about this. I reversed
the connections to the modulator transformer so that it now
matches the photo in your disc. The result is that I get a
perfect carrier null without any additional capacitive
padding although the null capacitor is near the end of its
travel on the maximum side. Evidently, this circuit is very
senstive to stray capacitance.
I broke one lead off the ceramic 2.2 pf cap which is
across it but managed to resolder it. I should really
replace this provided I can find a new one.
Now, I am not certain about the power output levels. I
think my measurements are fairly accurate but I have another
set of new tubes I can try. These are NOS General Electric
with slightly different envelopes. I can get more Sylvanias
if necessary.
I measured the power supply voltages; they seem to be
about right and not too much ripple although I have the
Heathkit Shop kit. I need to assemble and install it.
Perhaps that would bring the power up. What I think I will
do next is to replace the coupling caps in the microphone
stage. I can probably just bridge these. The odd thing is
that there is plenty of gain for AM. Of course, that comes
from a differen place. Its also possible that the cathode
load resistor has changed. That is also something I need to
get at and measure. This problem was intermittant and I did
at one point have enough gain. Also, I changed to 12AX7 to a
new one. No difference.
Another possible clue is that there appears to be ample
gain for the VOX. I did BTW find the diode in the PTT line
partly shorted, looked like about an 800 ohm resistor.
Replaced it.
One other thing. When I slipped with a meter probe and
shorted something a while ago the filiment fuse blew. I
replaced it but the entire TX seed dead even though all the
filiments lit. At some point I replaced the finals with the
original, rather weak, tubes and it came alive again. I
checked the tubes on a friends tube checker that will take
them and they simply had no emission. Something happened to
them.
Anyway, I've been fighting this thing so long now and
am so close to having it work right that I will simply not
give up. Any suggestions are very wellcome and I will follow
them up as best I can. Please excuse the long letter but I
guess I think the more clues you have the more likely it is
that I can find the solution.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3401. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 09:04:08 UTC
From: Richard Knoppow
Topic: 3388 Message: 3401

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 22, 2010 11:54 AM
Subject: Re: [DrakeRadio] Drake T-4XB low mic gain

Later, after making some more measurements. I think at least part of the problem is the power supply, lots of ripple on the 650V supply and it regulates badly. Time to install the Heathkit shop mod I think. Also, the RF level at the wiper of the null pot is much lower than I thought. The chart you sent me indicates it should be abour 4.2 volts P-P and I am getting perhaps one volt. However, the drive in Tune and CW seems to be adequate. I think perhaps the power is lower than it should be because of the power supply. Anyway, time to work on that and try trouble shooting the TX afterward. I don't remember ever having this much trouble with anything in the past. I must again recommend Garey's discs to everyone, without them I would be even more lost than I am.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3402. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 13:29:52 UTC
From: Garey Barrell
Topic: 3388 Message: 3402

YIKES!! You have been busy..... :-)

Richard Knoppow wrote:
>> I measured this using a dummy antenna and a General Radio
>> 1800A RF voltmeter. I also get approximately the same
>> reading using a Tek scope. The meter or scope is connected
>> to a T in the coax. In the case of the GR meter the entire
>> thing is continuously shielded. I measured the impedance of
>> the dummy load using a GR RF impedance bridge and its very
>> close to 50 ohms non-reactive.
>>

Certainly seems like you have accounted for all areas of possible error!

>> On 80 meters, at about 3.700 khz I get about 109 watts in
>> tune going up to about 135 watts in CW. I checked it at
>> 28,700 and get much the same power there also. These are new
>> tubes, NOS Sylvania. I managed to get them neutralized on 10
>> meters. I've replaced the cathode and screen resistors on
>> the finals. In each case one was near the right value and
>> the other quite high. I think the high ones were on the same
>> side. No sign of overheating on them.
>>

Those power levels are about right for 10M, but should be higher on 80 &
40 in particular. Those resistor value variations are not all that
unexpected in carbon comp resistors after 40 years. Interesting that
all the variation is on one tube, and means the "other" tube was doing
more than its share of the work. Not good for 3rd order distortion
products OR tube life.

>> I also replaced R-36. In my TX it was marked 2.7 ohms
>> but measured 4.4 ohms. I replaced it with one of the
>> original value. I also replaced R 26 which is marked 680
>> ohms but measured nearly 900. It showed no sign of
>> overheating. I also replaced C-135 with no effect, the old
>> one checks good but now has very short leads on it :-) In
>> the past I replaced the meter shunt with a metal film
>> resistor of the original value.
>>

This too is typical. This 1/2 resistor (R36) dissipates about 300 mW AT
resonance and can easily go over 500 mW off resonance. It's often a
casualty of a "slow tuner-upper"! R26 is typically a casualty of
someone aligning the compression trimmers with a metal bladed
screwdriver. Even a momentary short to the side of those little holes

can be damaging as it puts the entire 250V LV across that little resistor. Approximately 90 Watts!! R38 is selected to set the meter reading at 70 mA for about 190 mV across R36.

>> Before checking the power levels I set the bias
>> adjustment (in SSB with the gain at zero and a clip lead to
>> actuate the PTT.
>> I get about 4.4 V P-P RF at the center tap of the
>> carrier null pot.
>>

That's about right. You should have ~ 1.5V p-p at the INJ jack on the back panel, and ~ 6V p-p at Pin 2 of V4, Driver grid.

>> I have also performed the complete tune up procedure
>> for the IF and driver stages.
>> BTW, I think I wrote you before about this. I reversed
>> the connections to the modulator transformer so that it now
>> matches the photo in your disc. The result is that I get a
>> perfect carrier null without any additional capacitive
>> padding although the null capacitor is near the end of its
>> travel on the maximum side. Evidently, this circuit is very
>> senstive to stray capacitance.
>>

Never run into that before. Makes sense though, since there are very low capacitances involved.

>> I broke one lead off the ceramic 2.2 pf cap which is
>> across it but managed to resolder it. I should really
>> replace this provided I can find a new one.
>> Now, I am not certain about the power output levels. I
>> think my measurements are fairly accurate but I have another
>> set of new tubes I can try. These are NOS General Electric
>> with slightly different envelopes. I can get more Sylvanias
>> if necessary.
>>

I don't see any problem with your power measurement technique. With a quality, calibrated scope, and an accurate load, that is probably one of the most accurate measurements we can make. The only cross-check I can think of would be to measure the cathode current with a DMM across R36 (~340 mA) and the plate voltage (~650 VDC under load) for 220 W input power. Expected output power would be about 110 W, or 50% overall efficiency. The PA can be loaded to higher than 340 mA, but that is the maximum recommended by Drake to meet "Purity of Emissions" standards of today.

>> I measured the power supply voltages; they seem to be
>> about right and not too much ripple although I have the
>> Heathkit Shop kit. I need to assemble and install it.
>> Perhaps that would bring the power up. What I think I will

>> do next is to replace the coupling caps in the microphone
>> stage. I can probably just bridge these. The odd thing is
>> that there is plenty of gain for AM. Of course, that comes
>> from a differen place. Its also possible that the cathode
>> load resistor has changed. That is also something I need to
>> get at and measure. This problem was intermittant and I did
>> at one point have enough gain. Also, I changed to 12AX7 to a
>> new one. No difference.
>>

Doncha' just hate intermittents!?!??! :-) Your 4.4 V p-p output from the BM sounds like you have plenty of audio. Is your output being limited by the ALC, i.e., does the output go up as you increase the GAIN and then 'flatten out' around 10-11 o'clock? Once this happens do you then adjust PLATE and LOAD controls for maximum output? There have been some problems with leaky 12AX7s in the ALC at V1b.

>> Another possible clue is that there appears to be ample
>> gain for the VOX. I did BTW find the diode in the PTT line
>> partly shorted, looked like about an 800 ohm resistor.
>> Replaced it.
>> One other thing. When I slipped with a meter probe and
>> shorted something a while ago the filiment fuse blew. I
>> replaced it but the entire TX seed dead even though all the
>> filiments lit. At some point I replaced the finals with the
>> original, rather weak, tubes and it came alive again. I
>> checked the tubes on a friends tube checker that will take
>> them and they simply had no emission. Something happened to
>> them.
>>

Interesting. I have had "new" transmitters come in with _completely_ dead Finals, even though the filaments were lit. I found that hard to believe, but ... One possibility is that the Screen is being damaged, shorting to the Suppressor somehow.

>> Anyway, I've been fighting this thing so long now and
>> am so close to having it work right that I will simply not
>> give up. Any suggestions are very wellcome and I will follow
>> them up as best I can. Please excuse the long letter but I
>> guess I think the more clues you have the more likely it is
>> that I can find the solution.
>>

No problem, I love a challenge! You're doing all the work, all I'm doing is typing..... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3403. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 17:22:28 UTC
From: Richard Knoppow
Topic: 3388 Message: 3403

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 25, 2010 6:29 AM
Subject: Re: [DrakeRadio] Drake T-4XB low mic gain

> YIKES!! You have been busy..... :-)

I work on this thing intermittantly partly because of
my work schedule and and partly because I get burned out on
it. I sent you another e-mail later in which I said that the
levels at the null pot wiper were much lower than I stated,
I was going by memory, or maybe they were higher. I also
rechecked the ripple on the power supply. I thought it was
reasonable on the HV but had not checked it under load. With
the TX tuned up to maximum output there is a lot of sawtooth
ripple on this supply plus the voltage goes down a lot. The
original filter caps were dead and I replaced them with caps
at hand. Perhaps they are not so good. I have the Heathkit
Shop kit and will begin to assemble it today. I don't think
it pays to trouble shoot further without starting with the
supply.
The ALC flattens out on Tune but the audio from the mic
does not get up that high. BTW, its not the mic, I have
several and all are the same. I will probably repace the
coupling caps in the audio path later. While the current
caps are ceramic and probably OK the only way to know for
certain is to replace them. I have good film caps and will
also increase the size a bit to improve the low end. BTW,
the lower audio frequencies are _very_ limited, more than I
think is normal even for this TX so that may also be a clue.
I think the resistors I replaced probably drifted up
from age but comp resistors can get quite hot without
looking burned so there may have been some overloading. BTW,
the cathode resistors were of two different makes; one was
an Ohmite the other an unknown but with mold marks running
the long way on the case. The Ohmite was still within specs
although just barely but the other had drifted up to about
75 ohms. A million years ago, when I built a lot of stuff,
Ohmite had the reputation for being the best of a bad lot.
IRC resistors, the ones with the rough surface, had a
reputation for being noisy. Film resistors, mostly deposited
carbon types, were available but mostly as precision
resistors and were very expensive.
More when I get the power supply done and can make some

measurements with it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3404. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 18:50:18 UTC
From: Garey Barrell
Topic: 3388 Message: 3404

Richard -

I think the best carbon comps were A-B. They had the smooth body with smooth ends and bright color
bands. That is all I have ever seen in Drake gear. I suspect your Ohmite was a previous "fix".

Don't get too carried away increasing the low frequency response. The specified response is 350 to
2400 Hz, and if you go much lower than that in the audio stages the distortion and carrier suppression both suffer. If you have poor low frequency response on one sideband, check and ensure
that you don't also have poor high frequency response on the other sideband. A CO that is off
center will give that result. I assume you understand that voice peaks are very short in normal
speech, resulting in very low "average" meter readings. The meter in the T-4XB is pretty heavily
damped, which makes it slow to respond to peaks. Unless you have a scope or peak reading wattmeter
the best test is a steady whistle or broad "aaahhhhhhhhh" to see if the meter reaches the same
current it does in TUNE.

Typical AC-4 should have 650 VDC under full load (350 mA) with less than 1% ripple (6.5V p-p),
soaring to almost 740 VDC with no load.

Just keep telling yourself, "We do this for fun", "We do this for fun", "We do this for ..." :-)

73, Garey - K4OAH
Glen Allen, VA

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Thursday, March 25, 2010 6:29 AM
> Subject: Re: [DrakeRadio] Drake T-4XB low mic gain
>
>
>
>> YIKES!! You have been busy..... :-)
>>
> I work on this thing intermittantly partly because of

> my work schedule and and partly because I get burned out on
> it. I sent you another e-mail later in which I said that the
> levels at the null pot wiper were much lower than I stated,
> I was going by memory, or maybe they were higher. I also
> rechecked the ripple on the power supply. I thought it was
> reasonable on the HV but had not checked it under load. With
> the TX tuned up to maximum output there is a lot of sawtooth
> ripple on this supply plus the voltage goes down a lot. The
> original filter caps were dead and I replaced them with caps
> at hand. Perhaps they are not so good. I have the Heathkit
> Shop kit and will begin to assemble it today. I don't think
> it pays to trouble shoot further without starting with the
> supply.
> The ALC flattens out on Tune but the audio from the mic
> does not get up that high. BTW, its not the mic, I have
> several and all are the same. I will probably repace the
> coupling caps in the audio path later. While the current
> caps are ceramic and probably OK the only way to know for
> certain is to replace them. I have good film caps and will
> also increase the size a bit to improve the low end. BTW,
> the lower audio frequencies are _very_ limited, more than I
> think is normal even for this TX so that may also be a clue.
> I think the resistors I replaced probably drifted up
> from age but comp resistors can get quite hot without
> looking burned so there may have been some overloading. BTW,
> the cathode resistors were of two different makes; one was
> an Ohmite the other an unknown but with mold marks running
> the long way on the case. The Ohmite was still within specs
> although just barely but the other had drifted up to about
> 75 ohms. A million years ago, when I built a lot of stuff,
> Ohmite had the reputation for being the best of a bad lot.
> IRC resistors, the ones with the rough surface, had a
> reputation for being noisy. Film resistors, mostly deposited
> carbon types, were available but mostly as precision
> resistors and were very expensive.
> More when I get the power supply done and can make some
> measurements with it.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
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3405. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 19:26:33 UTC
From: Richard Knoppow
Topic: 3388 Message: 3405

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 25, 2010 11:50 AM
Subject: Re: [DrakeRadio] Drake T-4XB low mic gain

> Richard -
>
> I think the best carbon comps were A-B. They had the
> smooth body with smooth ends and bright color
> bands. That is all I have ever seen in Drake gear. I
> suspect your Ohmite was a previous "fix".
>
> Don't get too carried away increasing the low frequency
> response. The specified response is 350 to
> 2400 Hz, and if you go much lower than that in the audio
> stages the distortion and carrier
> suppression both suffer. If you have poor low frequency
> response on one sideband, check and ensure
> that you don't also have poor high frequency response on
> the other sideband. A CO that is off
> center will give that result. I assume you understand
> that voice peaks are very short in normal
> speech, resulting in very low "average" meter readings.
> The meter in the T-4XB is pretty heavily
> damped, which makes it slow to respond to peaks. Unless
> you have a scope or peak reading wattmeter
> the best test is a steady whistle or broad "aaahhhhhhhhh"
> to see if the meter reaches the same
> current it does in TUNE.
>
> Typical AC-4 should have 650 VDC under full load (350 mA)
> with less than 1% ripple (6.5V p-p),
> soaring to almost 740 VDC with no load.
>
> Just keep telling yourself, "We do this for fun", "We do
> this for fun", "We do this for ..." :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA

I will recheck the HV, that is more ripple than I
thought was normal. I found a mod somewhere about increasing
the coupling caps. The limited response is on both sidebands
and AM. I think it may be connected to the low gain problem.

I can replace the coupling caps one at a time with new ones
of the same value and see what, if anything, happens. There
are some other mysteries but they may be artifacts of
working when I am tired.
Its beyond fun, its obsessive-compulsive:-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3406. Re: [DrakeRadio] Drake T-4XB low mic gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 20:44:54 UTC
From: Garey Barrell
Topic: 3388 Message: 3406

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Thursday, March 25, 2010 11:50 AM
> Subject: Re: [DrakeRadio] Drake T-4XB low mic gain
>
>
> Don't get too carried away increasing the low frequency
> response. The specified response is 350 to
> 2400 Hz, and if you go much lower than that in the audio
> stages the distortion and carrier
> suppression both suffer.
>

> I will recheck the HV, that is more ripple than I
> thought was normal. I found a mod somewhere about increasing
> the coupling caps. The limited response is on both sidebands
> and AM. I think it may be connected to the low gain problem.
> I can replace the coupling caps one at a time with new ones
> of the same value and see what, if anything, happens. There
> are some other mysteries but they may be artifacts of
> working when I am tired.
> Its beyond fun, its obsessive-compulsive:-)
>
>

Yeah, the "Hi-Fi" crowd thinks an SSB _COMMUNICATIONS_ link should sound like the local FM _MUSIC_ station. They spend thousands on limiters, clippers, equalizers, compressors, and "wide response" capacitor and other exotic microphones. So they can sit and discuss their latest surgery with FULL FIDELITY, regardless of FCC regulations and common consideration.

Sorry for the rant.

Anyway, the standard response of the T-4XB or C is optimized for communications and if properly aligned and adjusted correctly WILL meet FCC "Purity of Emissions" and "Minimum Bandwidth for Effective Communications" regulations. The absolute bandwidth is determined by the passband of the filters, so just widening the Mic Amp response won't have much if any effect, unless it is MORE restrictive or offset with regard to the filter passband.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3407. Drake C4 Clock Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 21:39:41 UTC
From: N9JCQ@aol.com
Topic: 3407 Message: 3407

Guys,
I have a C4 thats has sat in the closet for a number of years and I want it back on line. What would I use to clean the clock gears? What would you recommend to lube the clock gears?
Joe, N9JCQ

[Non-text portions of this message have been removed]

3408. Re: [DrakeRadio] Drake C4 Clock Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-25 21:54:44 UTC
From: Garey Barrell
Topic: 3407 Message: 3408

Joe -

Don't lube anything except the motor! The only lubrication should be inside the motor "gearbox",
which is either glued or soldered shut.

The wheels and shaft should be clean and dry. Be CAREFUL cleaning them. Water only. Windex and
just about any other "cleaner" will take the numbers right off.

You can adjust the little beryllium springs inside the rim of each wheel to center the numbers in
the window and line them up.

The soldered gearbox can be opened with no "sproing-ing" if the motor is slow. Sometimes cleaning
out the old grease and re-lubing with Lubriplate or such will free up a motor that is slow or hot.
However a hot motor usually means a shorted turn. So far as I know, no-one has offered a replacement motor. Biggest problem is that EVERY other clock motor I've found runs in the opposite
direction!

The Penwood "Numechron" desk or "TV" clocks are the same unit, and those still show up from time to
time......

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

n9jcq@... wrote:
> Guys, I have a C4 Console thats sat in the closet for a number of years. I'd like to clean and lube the gears. How would I clean the gears? What would you recommend to lube the gears?
> Joe, N9JCQ
>
>
>
>

3409. R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-28 02:48:39 UTC
From: ejj@suddenlink.net
Topic: 3409 Message: 3409

Hello All
I just purchased a R4B. It apparently had been in storage for an unknown length of time before I acquired it. The seller said the radio ran fine. It is in excellent physical condition and ran fine for a few minutes then the audio became distorted. No hum. Sensitivity good. All functions appear to work fine. It suddenly improved when I rotated the off/on/standby switch thru positions. I used some contact cleaner on the switch and reseated tubes. Now the radio has distorted audio with occasional popping sounds all the time. The audio is ditorted thru the headphones as well.
I know electrolytics are always suspect on old radios. Any advice troubleshooting would be appreciated. Is there a source for caps for these radios? I purchased a 2B re cap set awhile back from N0JMY, I beleive

Thanks

EJ K5EJ

3410. Re: [DrakeRadio] R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-28 02:55:14 UTC
From: Garey Barrell
Topic: 3409 Message: 3410

EJ -

Possibly the cathode bypass cap on V7, C176. You can just disconnect it, just reduced audio. Check voltages around V7. Of course C90 is also a likely suspect!

Tom at Hayseedhamfest.com may have cap sets for the R-4B. He is having supplier trouble, but has some in stock.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

ejj@... wrote:
> Hello All
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> I know electrolytics are always suspect on old radios. Any advice troubleshooting would be appreciated. Is there a source for caps for these radios? I purchased a 2B re cap set awhile back from N0JMY, I beleive
>
> Thanks
>
> EJ K5EJ
>
>

3411. Re: R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-28 16:33:39 UTC
From: querencias
Topic: 3409 Message: 3411

I have almost always found a bad resistor when there is "popping" usually because of hair-line fractures. Sometimes they're easier to find when tapping around the components; they usually appear after the unit has warmed up and helped to increase the separation in the crack.

best of luck, Grant

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> EJ -
>
> Possibly the cathode bypass cap on V7, C176. You can just disconnect
> it, just reduced audio. Check voltages around V7. Of course C90 is
> also a likely suspect!
>
> Tom at Hayseedhamfest.com may have cap sets for the R-4B. He is having
> supplier trouble, but has some in stock.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> ejj@... wrote:
> > Hello All
> > I just purchased a R4B. It apparently had been in storage for an unknown length of time before I acquired it. The seller said the radio ran fine. It is in excellent physical condition and ran fine for a few minutes then the audio became distorted. No hum. Sensitivity good. All functions appear to work fine. It suddenly improved when I rotated the off/on/standby switch thru positions. I used some contact cleaner on the switch and reseated tubes. Now the radio has distorted audio with occasional popping sounds all the time. The audio is ditorted thru the headphones as well.
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> >
> > Thanks
> >
> > EJ K5EJ
> >
> >
>

3412. Re: R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-28 18:24:57 UTC
From: ejj@suddenlink.net
Topic: 3409 Message: 3412

Thanks for advice. Looks like I'll have to get a magnifier and good light out for this project

73

EJ K5EJ

--- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@...> wrote:
>
> I have almost always found a bad resistor when there is "popping" usually because of hair-line fractures. Sometimes they're easier to find when tapping around the components; they usually appear after the unit has warmed up and helped to increase the separation in the crack.
>
> best of luck, Grant
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > EJ -
> >
> > Possibly the cathode bypass cap on V7, C176. You can just disconnect
> > it, just reduced audio. Check voltages around V7. Of course C90 is
> > also a likely suspect!
> >
> > Tom at Hayseedhamfest.com may have cap sets for the R-4B. He is having
> > supplier trouble, but has some in stock.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > ejj@ wrote:
> > > Hello All
> > > I just purchased a R4B. It apparently had been in storage for an unknown length of time before I acquired it. The seller said the radio ran fine. It is in excellent physical condition and ran fine for a few minutes then the audio became distorted. No hum. Sensitivity good. All functions appear to work fine. It suddenly improved when I rotated the off/on/standby switch thru positions. I used some contact cleaner on the switch and reseated tubes. Now the radio has distorted audio with occasional popping sounds all the time. The audio is ditorted thru the headphones as well.
> > > I know electrolytics are always suspect on old radios. Any advice troubleshooting would be appreciated. Is there a source for caps for these radios? I purchased a 2B re cap set awhile back from N0JMY, I beleive

> > >
> > > Thanks
> > >
> > > EJ K5EJ
> > >
> > >
> >
>

3413. Re: [DrakeRadio] Re: R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-28 18:55:22 UTC
From: Garey Barrell
Topic: 3409 Message: 3413

EJ -

Have you tried another tube?

Here is a reduced resolution photo from the CD, locating C176. I'd start by measuring the DC resistances around V7, power OFF and unplugged. Then disconnect one end of C176, (easiest to desolder or cut lead at the tube socket,) and see if that helps the distortion. Also check R43, (on terminal strip just in front of V7,) and R136 (across base of Twist-Lok cap,) for value and condition.

If still trouble, check all voltages on V7. Does the popping decrease with AF GAIN at CCW?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

ejj@... wrote:
> Thanks for advice. Looks like I'll have to get a magnifier and good light out for this project
>
> 73
>
> EJ K5EJ
>
> --- In DrakeRadio@yahoogroups.com, "querencias"<tuquerencia@...> wrote:
>
>> I have almost always found a bad resistor when there is "popping" usually because of hair-line fractures. Sometimes they're easier to find when tapping around the components; they usually appear after the unit has warmed up and helped to increase the separation in the crack.
>>
>> best of luck, Grant
>>
>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>
>>> EJ -
>>>
>>> Possibly the cathode bypass cap on V7, C176. You can just disconnect
>>> it, just reduced audio. Check voltages around V7. Of course C90 is
>>> also a likely suspect!
>>>
>>> Tom at Hayseedhamfest.com may have cap sets for the R-4B. He is having

>>> supplier trouble, but has some in stock.
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>
>>>
>>> ejj@ wrote:
>>>
>>>> Hello All
>>>> I just purchased a R4B. It apparently had been in storage for an unknown length of time before I acquired it. The seller said the radio ran fine. It is in excellent physical condition and ran fine for a few minutes then the audio became distorted. No hum. Sensitivity good. All functions appear to work fine. It suddenly improved when I rotated the off/on/standby switch thru positions. I used some contact cleaner on the switch and reseated tubes. Now the radio has distorted audio with occasional popping sounds all the time. The audio is ditorted thru the headphones as well.
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>>>> Thanks
>>>>
>>>> EJ K5EJ
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3414. ac-4 power supply upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-29 03:49:27 UTC
From: Eric
Topic: 3414 Message: 3414

I got the power supply update from the Heathkit Shop.
all went well but i cannot get any bias voltage. I rechecked the connections and parts placement and all looks good.
Does anyone have any hints and kinks to help me out?

3415. Re: [DrakeRadio] ac-4 power supply upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-29 03:57:07 UTC
From: Garey Barrell
Topic: 3414 Message: 3415

Eric -

Verify the polarity and positioning of D7 and C5b and C5b. Neither end
of C5a is connected to chassis, and C5b has its (+) lead to chassis.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Eric wrote:
> I got the power supply update from the Heathkit Shop.
> all went well but i cannot get any bias voltage. I rechecked the connections and parts placement and all looks good.
> Does anyone have any hints and kinks to help me out?
>
>
>

3416. Re: [DrakeRadio] Re: R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-29 13:57:39 UTC
From: Garey Barrell
Topic: 3409 Message: 3416

EJ -

OK. C176 has excessive "leakage", meaning there is more DC current flowing through it than normal. Typically it should be microamps, yours is probably milliamps. This is enough to shift the operating point of the tube, putting it into the non-linear area. Not good! It is a bear to replace, but a NEW 10 uF @ 25V is about half the size of the one that's in there, so just thread it in, patiently. :-) You should get a new tube, as that one is quite likely gassy from being overloaded, probably for a while. It's probably drawing more current than it should. Check the voltage on Pin 1. If it's more than about 4.5V DC, the tube is damaged.

I wouldn't worry too much about the resistances on Pins 6 and 7. They are highly dependent upon what kind of meter and polarity of leads used to make the measurements. If you reverse your ohmmeter leads, or use another ohmmeter, you might find a situation where they read what's shown on the chart. I just learned the other day, (after 50 years!,) that there are readings on that voltage chart that ONLY match IF you use a Vacuum Tube Volt Meter (VTVM) to make them. Serious differences, like from e.g., 1.4 VDC to 7.6 VDC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

EJ wrote:
> Thank you for image and tips. I checked the resistances on V7. They are
> appropriate except for lead 6 and 7 which each measure about 4K. R43 and
> R136 look OK and measure correct value. I hunted thru my old tubes and did
> not have a replacement. I disconnected C176 and the receiver's audio
> returned to normal. I ran it for several hours this evening and it is still
> receiving fine. I guess the problem is C176. Not sure what to make out of
> the abnormal values on lead 6 and 7?
>
> Any thoughts?
>
> Thanks
>
> EJ
>
> -----Original Message-----
> From: Garey Barrell [mailto:k4oah@...]
> Sent: Sunday, March 28, 2010 2:04 PM

> To: ejj@...
> Subject: Re: [DrakeRadio] Re: R4B distorted audio
>
> EJ -
>
> Have you tried another tube?
>
> Here is a reduced resolution photo from the CD, locating C176. I'd start by
> measuring the DC
> resistances around V7, power OFF and unplugged. Then disconnect one end of
> C176, (easiest to
> desolder or cut lead at the tube socket,) and see if that helps the
> distortion. Also check R43, (on
> terminal strip just in front of V7,) and R136 (across base of Twist-Lok
> cap,) for value and condition.
>
> If still trouble, check all voltages on V7. Does the popping decrease with
> AF GAIN at CCW?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> ejj@... wrote:
>
>> Thanks for advice. Looks like I'll have to get a magnifier and good light
>>
> out for this project
>
>> 73
>>
>> EJ K5EJ
>>
>> --- In DrakeRadio@yahoogroups.com, "querencias"<tuquerencia@...> wrote:
>>
>>
>>> I have almost always found a bad resistor when there is "popping" usually
>>>
> because of hair-line fractures. Sometimes they're easier to find when
> tapping around the components; they usually appear after the unit has warmed
> up and helped to increase the separation in the crack.
>
>>> best of luck, Grant
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>

>>>> EJ -
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>>>> Possibly the cathode bypass cap on V7, C176. You can just disconnect
>>>> it, just reduced audio. Check voltages around V7. Of course C90 is
>>>> also a likely suspect!
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>>>> Tom at Hayseedhamfest.com may have cap sets for the R-4B. He is having
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>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>> ejj@ wrote:
>>>>
>>>>
>>>>> Hello All
>>>>> I just purchased a R4B. It apparently had been in storage for an
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> unknown length of time before I acquired it. The seller said the radio ran
> fine. It is in excellent physical condition and ran fine for a few minutes
> then the audio became distorted. No hum. Sensitivity good. All functions
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> switch thru positions. I used some contact cleaner on the switch and
> reseated tubes. Now the radio has distorted audio with occasional popping
> sounds all the time. The audio is ditorted thru the headphones as well.
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>>>>> I know electrolytics are always suspect on old radios. Any advice
>>>>>
> troubleshooting would be appreciated. Is there a source for caps for these
> radios? I purchased a 2B re cap set awhile back from N0JMY, I beleive
>
>>>>> Thanks
>>>>>
>>>>> EJ K5EJ
>>>>>
>>>>>
>

3417. Re: [DrakeRadio] Re: R4B distorted audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-29 22:34:39 UTC
From: Richard Knoppow
Topic: 3409 Message: 3417

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: "EJ" <ejj@...>; <DrakeRadio@yahoogroups.com>
Sent: Monday, March 29, 2010 6:57 AM
Subject: Re: [DrakeRadio] Re: R4B distorted audio

> EJ -
>
> OK. C176 has excessive "leakage", meaning there is more
> DC current
> flowing through it than normal. Typically it should be
> microamps, yours
> is probably milliamps. This is enough to shift the
> operating point of
> the tube, putting it into the non-linear area. Not good!
> It is a bear
> to replace, but a NEW 10 uF @ 25V is about half the size
> of the one
> that's in there, so just thread it in, patiently. :-)
> You should get
> a new tube, as that one is quite likely gassy from being
> overloaded,
> probably for a while. It's probably drawing more current
> than it
> should. Check the voltage on Pin 1. If it's more than
> about 4.5V DC,
> the tube is damaged.
>
> I wouldn't worry too much about the resistances on Pins 6
> and 7. They
> are highly dependent upon what kind of meter and polarity
> of leads used
> to make the measurements. If you reverse your ohmmeter
> leads, or use
> another ohmmeter, you might find a situation where they
> read what's
> shown on the chart. I just learned the other day, (after
> 50 years!,)
> that there are readings on that voltage chart that ONLY
> match IF you use
> a Vacuum Tube Volt Meter (VTVM) to make them. Serious
> differences, like
> from e.g., 1.4 VDC to 7.6 VDC.
>
> 73, Garey - K4OAH
```

> Glen Allen, VA

It would be useful to generate new voltage and
resistance charts. I found, for instance, that the
resistance chart for the T-4XB shows that pin 1 of V1 shold
be 15K. However, this goes to the 150V regulated line
through a 150 ohm resistor and the plate of the regulator
tube, V7, is shown as being 11K. Can't be and is
inconsistent within the chart. Actually, I get about 6K at
both points. I have not calculated the spproximate
resistance that should be there because the 150V line goes
too many places. However, the voltage on this line, and at
the the tubes, is about 149.something volts, just what one
would expect. I've also run across some other
inconsistencies in the resistance chart.
Since all of this equipment is quite old now one would
have to make readings of several known good working
transmitters and receivers to get typical readings. Perhaps
those with equipment and some time could make such readings
and they could be posted to the list or to someone who would
volenteer to produce the chart. Averaging the readings, and
eliminating those which appeared to way out of the average,
could produce a reasonably accurate chart. Both voltage and
resistance charts are useful. The measured resistance will
not depend too much on the meter although the test voltage
and polarity do have some effect in some circuits. Voltage
readings should be made with appropriate meters, probably
all electronic meters with high input impedance.
BTW, some care is needed in measuring voltages in some
older equipment because some voltages were measured with
very low resistance meters, around 1000 ohms/volt and others
with VTVMs with about 10meg input resistance. For instance,
the voltage chart for the Hammarlund SP-600-JX (all
versions) has DC voltages measured with a 1000 ohm/volt
meter except for the AVC grid bias voltages. In many places
the use of a VTVM or 20K ohm/volt meter will give
misleadingly high readings.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3418. Anyone tried a "Si570" ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-30 02:44:54 UTC
From: eli26e9
Topic: 3418 Message: 3418

Seeing I haven't been able to pickup an RV-4C yet for a reasonable price I have been considering using one of these (in one of the various kit forms which are around) to construct an equivalent.

Also seeing that I might pick up a r4c/t4x combination very reasonably I have also been thinking of building and equivalent to an FS-4 (which on ebay at the moment, when available are going for some ridiculously high prices.

Anyone done this to anyone's knowledge ?

(I would rather NOT reinvent the wheel as such:)

Gary
vk2zbb

3419. Re: [DrakeRadio] Anyone tried a "Si570" ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-30 03:18:34 UTC
From: Garey Barrell
Topic: 3418 Message: 3419

Hi Gary -

There are quite a few actually, no need to "reinvent" unless you just
like those sorts of things. Gets me into trouble all the time! :-)

This is a nice little kit, very inexpensive.

<http://www.qsl.net/k5bcq/Kits/Kits.html>

Someone did an article in QST a few years back using an AD DDS chip to
build a "pseudo" FS-4.

There have been several other units offered, but were quite expensive
and didn't seem to last long.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

eli26e9 wrote:
> Seeing I haven't been able to pickup an RV-4C yet for a reasonable price I have been considering using one of these (in one of the various kit forms which are around) to construct an equivalent.
>
> Also seeing that I might pick up a r4c/t4x combination very reasonably I have also been thinking of building and equivalent to an FS-4 (which on ebay at the moment, when available are going for some ridiculously high prices.
>
> Anyone done this to anyone's knowledge ?
>
> (I would rather NOT reinvent the wheel as such:)
>
> Gary
> vk2zbb
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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>

3420. Re: [DrakeRadio] Anyone tried a "Si570" ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-30 03:49:54 UTC
From: Gary Stern
Topic: 3418 Message: 3420

Thanks Garey,

Actually that was the kit I was thinking of :-)

I don't subscribe to QST, it isn't cheap downunder
and rare to be seen nowadays on the news stands for even browsing.

I should go an look at the ARRL site, I haven't looked for ages ....

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, 30 March, 2010 2:18:34 PM
Subject: Re: [DrakeRadio] Anyone tried a "Si570" ?

Hi Gary -

There are quite a few actually, no need to "reinvent" unless you just
like those sorts of things. Gets me into trouble all the time! :-)

This is a nice little kit, very inexpensive.

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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

eli26e9 wrote:
> Seeing I haven't been able to pickup an RV-4C yet for a reasonable price I have been considering using one of these (in one of the various kit forms which are around) to construct an equivalent.
>
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>
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>
> Gary
> vk2zbb
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3421. MN-2000 Tuner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-03-30 04:32:20 UTC
From: Carl McLelland
Topic: 3421 Message: 3421

Here's a different question to test y'alls knowedge.. I'm using my MN-2000 tuner on an Icom 718 until I can overhaul my T4XC, and go "analog"..

Here's what I would like to do, and if there's a way to do it I'd sure appreciate info on how to do it... In the next couple'a weeks I want to get a G5RV antenna, and ground it so I can get up to 160 meters. Unfortunately the MN-2000 only tunes from 10 meters to 80 meters.

1. Is there any way to modify, or otherwise make the MN-2000 antenna tuner work on 160 meters?

Thanks in advance; all your help is appreciated..
Carl KF7GJO

[Non-text portions of this message have been removed]

3422. AC-4 modification and T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-01 08:53:32 UTC
From: Richard Knoppow
Topic: 3422 Message: 3422

I just got finished installing this mod in my AC-4. The reason was that I thought the AC-4 was not behaving right. I was getting something like 30 volts peak-to-peak ripple on the HV when under full load, a nice saw-tooth. I thought perhaps fixing the supply might cure some other problems. Well, the new supply works mostly like the original except that the 250V regulation is a lot better. I think this also had rather high ripple on it. I still get 30V p-p ripple under full load.

I did find another clue about the "low gain" problem in my T4XB,

about which more below, however, I want to comment on this modification, which comes highly recommended.

In fact, it works. However I found the instructions left a lot to be desired. The first part, assembling the circuit board went fine but the second part, clearing out the old circuitry and re-wiring, has some quite confusing stuff in it. For instance, I did not need to install the extra terminal strip. I also found that a couple of wires mentioned seem to come from no-where and are not needed. The lack of drawings or photos makes life difficult in a couple of places. Fortunately, I had sketched out the original layout. A photo would have been better but I don't have a digital camera at hand. I also find the repeated warnings not to blame them if you kill yourself a bit much, I suspect the fellow has had some bad experiences with brain-dead customers.

In any case, the components supplied seem to be of high quality and the circuit board is well made. I strongly recommend that you make drawings of take photos of the original chassis layout before starting and do a dry run before undertaking the actual work. That will show up any gotchas in advance. I actually did a sort of dry run but didn't go far enough.

All in all I would recommend the mod to those who's AC-4s have thrown a shoe.

Now, about the low mic gain. I did a lot of checking including measuring all the resistors in the audio path. I did find a couple that had drifted but not enough to cause the trouble. I was mis-led into replacing a couple of perfectly good caps. While the film caps in Drakes may go bad sometimes they seem to have used very high quality parts so I suspect that actual failures are rare.

By accident I discovered that if I put the function switch in a sort of half-cocked position between tune and

SSB it evidently disables the AGC and, voila, there is plenty of output! Of course, there is no level control. This makes me think there is something wrong in the AGC circuit. I did replace some resistors in the final and in the plate current circuit as recommended in a sheet with levels in it sent me by Garey. I found a couple that were way off. I have also replaced the cathode and screen resistors in the final. I checked other resistors in this circuit without finding any that were way off but may have missed a couple. I have to analyse this circuit further to see what I may have missed.

For Garey, the new supply does not increase the output much. I get about 110 watts in tune and about 140 watts in CW testing at 7100 khz. I am not sure what to expect but think this may be a bit low. At minimum load the HV is around 690 volts with less than 10volts p-p ripple. At full CW output it drops to about 650V (the old one dropped even more) and ripple is about 30V p-p as mentioned above. Is this normal??. If it is I don't want to be tilting at yet another windmill. At full out on Tune the voltage is not down much, can't remember exactly and didn't make a note and the ripple is not much more than at minimum power, perhaps 10V p-p.

Anyway, any suggestions (other than soaking my head) would be very welcome. I am giving up for today (tonight). This is a "day" off for me and I intend to get some sleep and enjoy the day tomorrow.

73 to all and I sure hope someone has an idea.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3423. Re: [DrakeRadio] AC-4 modification and T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-01 21:27:02 UTC
From: Richard Knoppow
Topic: 3422 Message: 3423

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 01, 2010 1:53 AM
Subject: [DrakeRadio] AC-4 modification and T4XB

I re-checked output voltages on my modified AC-4 both
without load and under load.
Without any load, that is, disconnected from the transmitter
I get:
HV about 680V, this is within the specs of 650 to 750V.
Drops to 615V under full load (CW maximum output) with high
ripple, about 30V p-p.
250V supply, specs say at least 290V I get 277 and it drops
below 250 under load. Ripple is about 1V p-p.
Line voltage adjusted to 117 with a variac.
I've assembled the thing correctly, have no reversed
diodes or caps.
This is just about the same as I got with the original
set up including my makeshift replacement for one of the HV
caps.
Is it possible the new caps could be sour? I am
interested in other's experiences with this mod.
Both supplies use voltage doubler circuits which are
more sensitive to load and capacitor condition than a full
wave rectifier.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3424. Re: [DrakeRadio] AC-4 modification and T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-01 23:30:39 UTC
From: Al
Topic: 3422 Message: 3424

Hi Richard, You said, “For Garey, the new supply does not increase the output much. I get about 110 watts in tune and about 140 watts in
CW testing at 7100 khz. I am not sure what to expect but think this may be a bit low.”

In the manual for the T-4XB on page 3 it states, INPUT POWER 200 watts PEP for SSB and AM, CW is listed as 200 watts. You have to remember this is input power not output power. Also as you go up in frequency the output power will drop.

On page 18 the forth paragraph talks about the difference in operating conditions between TUNE and CW. It says, “The power output may be lower in the CW position for a given setting of the GAIN control.” For some reason your getting the reverse, more in CW mode. Is it possible you have the outputs reversed for TUNE and CW?

Also there is a chance to the tuning procedure that was published many years ago, see below.

T-4Xany Tuning Alterations

On the T-4, T-4X, T-4XB, and the T-4XC there is a new tuning procedure. The tune up procedure for the T-4 series transmitters must be altered from the instruction manual in order to meet section 97.73 of the F.C.C. regulations which concern the purity of emissions.

Tune up on 160, 80, 40, and 20 meters must be altered by limiting the plate current to 340 milliamperes with the LOAD control. In stead of adjusting the LOAD control for maximum FR output, the LOAD control should be advanced from CCW to the point at which the resonant plate current does not exceed 340 milliamperes.

The tune up procedure in the instruction manual may be followed for operation on 15 and 10 meters.

Al, n7ioh
Payson, AZ

To error is human, to forgive is against company policy.

--- On Thu, 4/1/10, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: [DrakeRadio] AC-4 modification and T4XB
To: DrakeRadio@yahoogroups.com
Date: Thursday, April 1, 2010, 2:53 AM

I just got finished installing this mod in my AC-4. The

reason was that I thought the AC-4 was not behaving right. I

was getting something like 30 volts peak-to-peak ripple on

the HV when under full load, a nice saw-tooth. I thought perhaps fixing the supply might cure some other problems. Well, the new supply works mostly like the original except that the 250V regulation is a lot better. I think this also had rather high ripple on it. I still get 30V p-p ripple under full load.

I did find another clue about the "low gain" problem in my T4XB,

about which more below, however, I want to comment on this modification, which comes highly recommended.

In fact, it works. However I found the instructions left a lot to be desired. The first part, assembling the circuit board went fine but the second part, clearing out the old circuitry and re-wiring, has some quite confusing stuff in it. For instance, I did not need to install the extra terminal strip. I also found that a couple of wires mentioned seem to come from no-where and are not needed. The lack of drawings or photos makes life difficult in a couple of places. Fortunately, I had sketched out the original layout. A photo would have been better but I don't have a digital camera at hand. I also find the repeated warnings not to blame them if you kill yourself a bit much, I suspect the fellow has had some bad experiences with brain-dead customers.

In any case, the components supplied seem to be of high quality and the circuit board is well made. I strongly recommend that you make drawings of take photos of the original chassis layout before starting and do a dry run before undertaking the actual work. That will show up any

gotchas in advance. I actually did a sort of dry run but
didn't go far enough.
All in all I would recommend the mod to those who's
AC-4s have thrown a shoe.
Now, about the low mic gain. I did a lot of checking
including measuring all the resistors in the audio path. I
did find a couple that had drifted but not enough to cause
the trouble. I was mis-led into replacing a couple of
perfectly good caps. While the film caps in Drakes may go
bad sometimes they seem to have used very high quality parts
so I suspect that actual failures are rare.
By accident I discovered that if I put the function
switch in a sort of half-cocked position between tune and
SSB it evidently disables the AGC and, voila, there is
plenty of output! Of course, there is no level control. This
makes me think there is something wrong in the AGC circuit.
I did replace some resistors in the final and in the plate
current circuit as recommended in a sheet with levels in it
sent me by Garey. I found a couple that were way off. I have
also replaced the cathode and screen resistors in the final.
I checked other resistors in this circuit without finding
any that were way off but may have missed a couple. I have
to analyse this circuit further to see what I may have
missed.
For Garey, the new supply does not increase the output
much. I get about 110 watts in tune and about 140 watts in
CW testing at 7100 khz. I am not sure what to expect but
think this may be a bit low. At minimum load the HV is
around 690 volts with less than 10volts p-p ripple. At full

CW output it drops to about 650V (the old one dropped even more) and ripple is about 30V p-p as mentioned above. Is this normal??. If it is I don't want to be tilting at yet another windmill. At full out on Tune the voltage is not down much, can't remember exactly and didn't make a note and the ripple is not much more than at minimum power, perhaps 10V p-p.

Anyway, any suggestions (other than soaking my head) would be very welcome. I am giving up for today (tonight). This is a "day" off for me and I intend to get some sleep and enjoy the day tomorrow.

73 to all and I sure hope someone has an idea.

--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@ix. netcom.com

[Non-text portions of this message have been removed]

3425. Re: [DrakeRadio] AC-4 modification and T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-02 03:02:38 UTC
From: Richard Knoppow
Topic: 3422 Message: 3425

----- Original Message -----
From: "Al" <mebareit@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 01, 2010 4:30 PM
Subject: Re: [DrakeRadio] AC-4 modification and T4XB

Hi Richard, You said, “For Garey, the new supply does not increase the output much. I get about 110 watts in tune and about 140 watts in
CW testing at 7100 khz. I am not sure what to expect but think this may be a bit low.”

In the manual for the T-4XB on page 3 it states, INPUT POWER 200 watts PEP for SSB and AM, CW is listed as 200 watts. You have to remember this is input power not output power. Also as you go up in frequency the output power will drop.

On page 18 the forth paragraph talks about the difference in operating conditions between TUNE and CW. It says, “The power output may be lower in the CW position for a given setting of the GAIN control.” For some reason your getting the reverse, more in CW mode. Is it possible you have the outputs reversed for TUNE and CW?

Also there is a chance to the tuning procedure that was published many years ago, see below.

T-4Xany Tuning Alterations

On the T-4, T-4X, T-4XB, and the T-4XC there is a new tuning procedure. The tune up procedure for the T-4 series transmitters must be altered from the instruction manual in order to meet section 97.73 of the F.C.C. regulations which concern the purity of emissions.

Tune up on 160, 80, 40, and 20 meters must be altered by limiting the plate current to 340 milliamperes with the LOAD control. In stead of adjusting the LOAD control for maximum FR output, the LOAD control should be advanced from CCW to the point at which the resonant plate current does not exceed 340 milliamperes.

The tune up procedure in the instruction manual may be followed for operation on 15 and 10 meters.

Al, n7ioh
Payson, AZ

I am not sure what the power output should be in tune and CW. I think Garey said it should be about 130 and 150 watts but have to find that e-mail.
For the _same_ setting of the gain control the output in CW IS lower than tune but, the gain can be turned up. At some point the AGC prevents increasing drive in Tune, in CW the drive can be increased more and by juggling the load and plate tuning the output will go up. Probably this is driving the final into a non-linear state where its producing spurs or harmonics. The "new" tuning procedure mostly is to limit plate current to a value where, presumably, the final is _not_ generating distortion products.
I may be expecting too much of the thing.
I have at this point two problems: on is the "low gain" problem. I put quotes around this because I think it is actually due to the AGC, not the audio stage. The other problem is that the voltage out of my AC-4 with brand new Heathkit Shop modification in it is lower than their spec. I have obtained some new capacitors locally and will try them in the circuit later and report. I don't think its the transformer because it doesn't run hot and is not noisy, both symptoms of problems. I have yet to measure the open circuit output voltage of the transformer itself but will do that if the new caps don't cure the problem. Remember that this kit includes all the capacitors and all the diodes used in the power supply. I do not have anything turned around, I've checked several times plus reversed caps will blow up after a relatively sort time.
I do have a clue about the low audio. The AGC buss is carried out to the power supply where it is terminated on an RCA jack for use with Drake power amplifiers. Its a convenient place to make measurements. I found that the impedance ot this circuit is enormously high, high enough to be loaded by electronic voltmeters with 10megohm input. I do have a meter that can be set up for a much greater impedance. That is a General Radio 1800A. It can be connected for open grid measurements provided it can be zeroed on the actual load. This is an input impedance of around 100 megohm or more. It will tell me what this circuit is doing. I find if I _short_ the AGC buss the audio drive goes up tremendously providing full SSB modulation with the gain control about half way up. Of course its easily overdriven. I have some more resistors to check in this circuit. The answer is there somewhere, its just eluding me and requires a lot of patience.
Another shameless plug for Garey's disc. I printed out the "handbook" he has with photographs of the interior of the transmitter and receiver and also had the schematic printed very large scale. Without these I would be completely lost. If you contemplate working on any Drake stuff covered by his discs they are not only wise but

necessary and are not at all expensive. (Garey, you will get
an advertising bill in the mail).

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3426. UV-3 accessory connectors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-03 21:18:48 UTC
From: n7bdl
Topic: 3426 Message: 3426

The ten pin connectors on the bottom of the radio are still available. I found them at Allied Electronics:

Allied Stock # Molex Part # Price

863-0545 22-01-2107 $0.30 .100 TERMINAL HOUSING; W/LOCK RAMP; 10 CIRCUITS

863-0292 08-50-0114 $0.08 CRIMP TERMINAL; TIN PLATED; 22-30AWG

73
Terry N7BDL

3427. epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 03:21:24 UTC
From: jim_n9ww
Topic: 3427 Message: 3427

This guys serious...right?

http://cgi.ebay.com/DRAKE-R-4B-RECIEVER-T-4XB-TRANSMITTER-MS-4-SPEAKER_W0QQitemZ350336457563QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item5191ae1b5b

73,
Jim N9WW

3428. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 04:06:55 UTC
From: Paul Kraemer
Topic: 3427 Message: 3428

Serious whack job for sure
In his dreams
Paul K0UYA
----- Original Message -----
From: "jim_n9ww" <jimc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 03, 2010 10:21 PM
Subject: [DrakeRadio] epay

>
> This guys serious...right?
>
> http://cgi.ebay.com/DRAKE-R-4B-RECIEVER-T-4XB-TRANSMITTER-MS-4-SPEAKER_W0QQitemZ35033645
7563QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item5191ae1b5b
>
> 73,
> Jim N9WW
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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3429. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 05:25:34 UTC
From: Dan Galligan
Topic: 3427 Message: 3429

This seller has to be totally out of touch. A VERY NICE set, just back from a thorough going through, by one of the fine Drake techs around the country, MIGHT be worth that. But, by their own photos, it's shown it to be a pretty rough set. Even if working well, I wouldn't give more than a couple hundred, at best, and that's IF I had the option to operate them first. Apparently this seller is deluded, or smoking crack.
Dan Galligan
W3RXO
On Apr 3, 2010, at 8:21 PM, jim_n9ww wrote:

This guys serious...right?

http://cgi.ebay.com/DRAKE-R-4B-RECIEVER-T-4XB-TRANSMITTER-MS-4-SPEAKER_W0QQitemZ350336457563QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item5191ae1b5b

73,
Jim N9WW

[Non-text portions of this message have been removed]

3430. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 06:32:55 UTC
From: Gary Stern
Topic: 3427 Message: 3430

Mind you, if it was a "C" line instead of a "B" line.....

See what some R4C's have been going for ?? (especially with Sherwood mods ;-)

From: Dan Galligan <w3rxo@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, 4 April, 2010 3:25:34 PM
Subject: Re: [DrakeRadio] epay

This seller has to be totally out of touch. A VERY NICE set, just back from a thorough going through, by one of the fine Drake techs around the country, MIGHT be worth that. But, by their own photos, it's shown it to be a pretty rough set. Even if working well, I wouldn't give more than a couple hundred, at best, and that's IF I had the option to operate them first. Apparently this seller is deluded, or smoking crack.
Dan Galligan
W3RXO
On Apr 3, 2010, at 8:21 PM, jim_n9ww wrote:

This guys serious...right?

http://cgi.ebay. com/DRAKE- R-4B-RECIEVER- T-4XB-TRANSMITTE R-MS-4-SPEAKER_
W0QQitemZ3503364 57563QQcmdZViewI temQQptZLH_ DefaultDomain_ 0?hash=item5191a e1b5b

73,
Jim N9WW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3431. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 07:27:33 UTC
From: Dan Galligan
Topic: 3427 Message: 3431

Gary, even a true Sherwood modded R-4C, isn't necessarily worth all of that. One with the full mods, in true MINT condition, could be worth close to that, but few are truly MINT. For you, if it included shipping, it could be worth it, if the T-4XC and MS-4/AC-4 were included. But, I would rather pay $300 for a complete 4B line, and then have Jeff Covelli, or one of the other fantastic tech's go through it, for a couple hundred bucks. Which is how I got my "B-Line" going well.
That price is ridiculous, to say the least.
Dan Galligan
W3RXO

[Non-text portions of this message have been removed]

3432. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 10:04:58 UTC
From: Gary Stern
Topic: 3427 Message: 3432

Ah, to be on your side of the wash :-)

But then, not always.....

From: Dan Galligan <w3rxo@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, 4 April, 2010 5:27:33 PM
Subject: Re: [DrakeRadio] epay

Gary, even a true Sherwood modded R-4C, isn't necessarily worth all of that. One with the full mods, in true MINT condition, could be worth close to that, but few are truly MINT. For you, if it included shipping, it could be worth it, if the T-4XC and MS-4/AC-4 were included. But, I would rather pay $300 for a complete 4B line, and then have Jeff Covelli, or one of the other fantastic tech's go through it, for a couple hundred bucks. Which is how I got my "B-Line" going well.
That price is ridiculous, to say the least.
Dan Galligan
W3RXO

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

3433. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 12:17:20 UTC
From: Kris Merschrod
Topic: 3427 Message: 3433

Why the need to "bash" folks? I see the eBay paostimngs as a source of information - sometimes nice photos - a way to see new (to me) rigs close up - when they sell or do not sell, then it is a gauge of a market place. As the saying goes, "You can't blame them for asking." But we have the pleasure of watching.

Kris (KA2OIG)

[Non-text portions of this message have been removed]

3434. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 14:04:23 UTC
From: g4jss@tiscali.co.uk
Topic: 3427 Message: 3434

Or being conned by people who think Drake is a license to print money!!

Vic

[Non-text portions of this message have been removed]

3435. Re: [DrakeRadio] epay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 16:11:44 UTC
From: Jim Jordan
Topic: 3427 Message: 3435

He IS serious! These radios sell for unbelieveable prices in Europe, from Iraq northward to the North Sea. These buyers must be missing a few marbles (IMHO). The Drake 4 line is a nice setup, but only 6 to 7 hundred nice.

On Sat, Apr 3, 2010 at 10:21 PM, jim_n9ww <jimc@...> wrote:

>
>
>
> This guys serious...right?
>
>
> http://cgi.ebay.com/DRAKE-R-4B-RECIEVER-T-4XB-TRANSMITTER-MS-4-SPEAKER_W0QQitemZ350336457563QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item5191ae1b5b
>
> 73,
> Jim N9WW
>
>
>

[Non-text portions of this message have been removed]

3436. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 18:38:23 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3436

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3437. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 19:21:34 UTC
From: Dan Galligan
Topic: 3427 Message: 3437

Kris,
I don't see it as bashing anyone, it is simply commenting on what we see as something out of the ordinary. If we were to be sending the seller, mean spirited messages about the selling price, that would be bashing. A seller has every right to ask whatever price they believe will be fetched, just as we have a right to believe any price we think is outrageous, to be so. Bashing would be those who do not like the asking price, commenting to the seller, in a negative manner, rather than in an advisory manner, or between themselves. But, it is not informational, when someone's asking price is far out of the norm. It is much easier, to watch the selling prices on http://www.joetracker.com/prices/drake.htm . That gives a far better running average of the selling price.
Now, I would guess, from what I read there, that the seller likely has no idea what they are truly worth, or has limited experience with selling these radios, and has an inflated view of their worth, due to some outside influence. The rest of the listings show that they seem to be more geared to selling recordings of old radio show broadcasts, not ham radio. It is possible they are a consignment seller, and are only asking what the owner is asking, in the way of selling price.
Hey, if it sells, they did the right thing, but likely, it will not sell, with that starting price, and they will be forced to re-list it, at a more realistic price. I don't think anyone here is faulting them, only commenting on how "Out of the norm" the starting price is, based on the condition of the rigs, AND our knowledge of the true values of these radios. We'll see what happens, and where it goes, or doesn't.
Dan Galligan
W3RXO

On Apr 4, 2010, at 5:17 AM, Kris Merschrod wrote:

Why the need to "bash" folks? I see the eBay paostimngs as a source of information - sometimes nice photos - a way to see new (to me) rigs close up - when they sell or do not sell, then it is a gauge of a market place. As the saying goes, "You can't blame them for asking." But we have the pleasure of watching.

Kris (KA2OIG)

[Non-text portions of this message have been removed]

3438. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 19:30:53 UTC
From: Eric Zerkle
Topic: 3438 Message: 3438

I wonder if it is the same knucklehead ham that tried to sell me his Drake twin setup for $850.00 plus $125.00 shipping?

Were a lot of people get stung, is the shipping. Tell someone ill sell them a Drake Tr-4 for say $350.00 for the rig, power supply, and speaker then charge them $100.00 to ship. The last time i shipped out a Drake setup i paid $45.00 to ship all of it. It always burns my butt when i see someone that tries to make $$$ of the actual shipping.

K9FON

[Non-text portions of this message have been removed]

3439. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 19:33:30 UTC
From: Garey Barrell
Topic: 3427 Message: 3439

Not to bash anyone, but "Joetracker" hasn't been updated for four
years! I don't think I would put a whole lot of faith in those numbers.

I believe the listing at

<http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm>

is more in line with current prices, although there is no mention of the
last update time. Might be interesting to hear from Ron.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Dan Galligan wrote:
> It is much easier, to watch the selling prices on
http://www.joetracker.com/prices/drake.htm . That gives a far better running average of
the selling price.
> Now, I would guess, from what I read there, that the seller likely has no idea what they
are truly worth, or has limited experience with selling these radios, and has an inflated
view of their worth, due to some outside influence.
>
>
> On Apr 4, 2010, at 5:17 AM, Kris Merschrod wrote:
>
> Why the need to "bash" folks? I see the eBay paostimngs as a source of information -
sometimes nice photos - a way to see new (to me) rigs close up - when they sell or do not
sell, then it is a gauge of a market place. As the saying goes, "You can't blame them for
asking." But we have the pleasure of watching.
>
> Kris (KA2OIG)
>
>
>

3440. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 19:41:47 UTC
From: Dan Galligan
Topic: 3427 Message: 3440

Garey,
THANKS for the info. I only recently stumbled upon the Joe Tracker website, and had no idea those prices were that old. Thanks for the good info, I'll be sure to bookmark that one, and drop the JoeTracker bookmark.
Again, and as usual, good information, coming from Glen Allen, VA
Dan Galligan
W3RXO
dgalligan60 (at) mac (dot) com
w3rxo (at) mac (dot) com

Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty, nor safety.
Benjamin Franklin

The price of freedom is eternal vigilance.
Thomas Jefferson
On Apr 4, 2010, at 12:33 PM, Garey Barrell wrote:

Not to bash anyone, but "Joetracker" hasn't been updated for four
years! I don't think I would put a whole lot of faith in those numbers.

I believe the listing at

<http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm>

is more in line with current prices, although there is no mention of the
last update time. Might be interesting to hear from Ron.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

3441. Fwd: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 19:50:11 UTC
From: Dan Galligan
Topic: 3441 Message: 3441

Eric,
Likely, it could be, it's a far smaller world in the arena of e-trading and selling of ham radios, than many of us think. I think most sellers have a pretty fair grasp of equipment values, but some folks are a bit "deluded" into having an inflated sense of value.
However, shipping is a pretty subjective thing. Too many variables involved. Each company has their own set of rates, based on how they will ship it, and so on. For me, with my discount, it cost $82, to ship my "B" Line from SoCal, to Jeff Covelli, in the Cleveland, Ohio area, via UPS ground. I don't remember what FedEx and USPS wanted, but UPS was the lowest price I could find, at the time. Yet, to send that MS-4 (without the AC-4), to Gary, Down Under, UPS wanted $175+, and FedEx wanted $182+, where as the USPS did it for $65, I believe, and it got there far faster than either Gary, or I, expected. I think it was there in 5 business days, if my memory serves me right. Not bad, for going clear across the big pond to the west of us.
Dan Galligan
W3RXO

On Apr 4, 2010, at 12:30 PM, Eric Zerkle wrote:

I wonder if it is the same knucklehead ham that tried to sell me his Drake twin setup for $850.00 plus $125.00 shipping?

Were a lot of people get stung, is the shipping. Tell someone ill sell them a Drake Tr-4 for say $350.00 for the rig, power supply, and speaker then charge them $100.00 to ship. The last time i shipped out a Drake setup i paid $45.00 to ship all of it. It always burns my butt when i see someone that tries to make $$$ of the actual shipping.

K9FON

[Non-text portions of this message have been removed]

3442. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 20:09:15 UTC
From: Joe
Topic: 3442 Message: 3442

This **is** getting away from something serious about Drake, but I will add one thing many are not aware of.

(And this definitely does not apply to this eBay sale of $975.00, which considering the copper fungus, is ridiculous!)

eBay does NOT charge a fee for shipping...so....Some, like me, ask a lower bid or reserve BIN price and charge more for shipping, so we, as sellers, do not have to pay as much to eBay for their service. I try and price things I sell so the buyer still pays the price I wanted to sell the item for, but I pay less to eBay because of the shipping. It's a profit thing! HEH!

(Am I making sense???)

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Eric Zerkle" <kc9guz@...>
Subject: Re: [DrakeRadio] epay -

Were a lot of people get stung, is the shipping. Tell someone ill sell them a Drake Tr-4 for say $350.00 for the rig, power supply, and speaker then charge them $100.00 to ship. The last time i shipped out a Drake setup i paid $45.00 to ship all of it. It always burns my butt when i see someone that tries to make $$$ of the actual shipping.

3443. Re: [DrakeRadio] epay -

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 20:42:35 UTC
From: Dan Galligan
Topic: 3442 Message: 3443

That makes sense to me, Joe. I don't think anyone would be upset about paying a higher shipping cost, if the price were lowered, as you describe. It's a guessing game, in an auction selling format. I never figured out a system for that, that works most of the time, and being the capitalist that I am, I just sell, and hope to make enough, that after eBay's fees, I am getting what I want to pocket. It's the "Cost of doing business", as my professor, once taught me, in my hospitality management course.
Personally, if it all works out in the end, I see nothing wrong with your method, but, I've never charged more in shipping than it actually cost me to ship, +/- a miniscule amount, because the shipping calculators aren't always totally accurate. But, I can honestly say, I have had shipping charges that cost me more than I charged the buyer, SEVERAL times, simply because, if I quote a price, I stand by it, even if I wind up taking it in the shorts. I don't want folks to think I'm trying to gouge them, by asking for more than I had quoted. I once sold a Heathkit Apache to a fellow in Tennessee, and quoted a shipping price of $80. In the end, shipping cost me $148. Lesson learned, the hard way.
Anyway, enough on this eBay stuff. We all have our methods of selling, and if it includes eBay, most everyone has their "tricks" that they believe will maximize their price potential. As long as they are ethical, I see no problem with any of them.

I want to wish one and all a Happy Easter, or a Blessed Passover, if you are so inclined to honor either of these Holidays.

Dan Galligan
W3RXO

[Non-text portions of this message have been removed]

3444. RE: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-04 21:40:20 UTC
From: Ivan Shapiro (KB1STH)
Topic: 206 Message: 3444

Don suggested intro,

I am Ivan Shapiro. KB1STH . I live in Maine. Recently licensed (finally after yrs of doing nothing).

I☐m on an accelerated path, trying to learn as much as I can as soon as I can.

Recently acquired a set of twins (R4B/T4XB/MS4/Drake Tuner/AC4/WS4 meter)

An Elmer helped me get it going. I need to learn how to Tx on it.

Also have FT-950-1st rig.

Bought IC 746 Pro used from a friend.

Putting IC7000-Tarheel Antenna-Turbotuner in truck.

I think the ham bug really bit me hard.

So why Drake? I thought it worthwhile to learn how I would have worked ham radio with tubes, years ago.

When I was in Columbus OH last yr I stopped by UniverfsalRadio. One question I had was what tube rig should I look for.

They had sold their twins, but recommended I find one.

Oh one more thing. I☐ll probably find a good L4B some day.

Thoughts? Comments?

Would be welcome.

73

Ivan

KB1STH@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com]
Sent: Sunday, April 04, 2010 2:38 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] File - Bi-Weekly Statement

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we

would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

[Non-text portions of this message have been removed]

3445. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 05:09:18 UTC
From: Richard Knoppow
Topic: 206 Message: 3445

----- Original Message -----
From: "Ivan Shapiro (KB1STH)" <KB1STH@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, April 04, 2010 2:40 PM
Subject: RE: [DrakeRadio] File - Bi-Weekly Statement

Don suggested intro,

I am Ivan Shapiro. KB1STH . I live in Maine. Recently licensed (finally
after yrs of doing nothing).

I'm on an accelerated path, trying to learn as much as I can as soon as I
can.

Recently acquired a set of twins (R4B/T4XB/MS4/Drake Tuner/AC4/WS4 meter)

An Elmer helped me get it going. I need to learn how to Tx on it.

Do you have the handbooks for the receiver and transmitter? If not there are decent copies on the web or you can get a disc from Garey Burrel with very good resolution versions plus a lot of other stuff which was not published by Drake.
The handbooks will tell you how to wire the RX, TX, and power supply together. You have everything you need listed above except for an antenna. I assume you have a microphone and key.
The main caution, and this applies to transmitters generally, is to go slow when tuning up. Increase power very little until you have just enough to get a reading on the plate current meter. Then tune the plate tuning for a dip. Then make sure the drive is peaked. You may have to peak the drive first to get an indication if its off very much but the gain control should be very low and back it down as soon as you get an indication so that you don't exceed the plate current. Once you have the plate dipped you can increase power and adjust other things.
You can use the receiver to rough tune the antenna tuner. It will give you a peak output when you are close. Tuning should be done with low power to avoid interfering with other stations. Keep a record of the settings for each frequency so you can return to it.

That's enough for now. Most of this is spelled out in
the handbooks.
I also recommend getting a copy of the _Radio Amateur's
Handbook_ from the ARRL, it can be ordered over the web.
Lots of good information in it mostly well written.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3446. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 05:17:31 UTC
From: Richard Knoppow
Topic: 206 Message: 3446

----- Original Message -----
From: "Ivan Shapiro (KB1STH)" <KB1STH@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, April 04, 2010 2:40 PM
Subject: RE: [DrakeRadio] File - Bi-Weekly Statement

And BTW, welcome to the amateur radio fraternity (Also
a sorority) and congratulations on getting your license. I
something of an old timer but had a lapse of many years
between beginning and getting back to it. Managed to get an
extra-class and my original call back.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3447. Re: [DrakeRadio] Drake Sale Price History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 13:14:58 UTC
From: Garey Barrell
Topic: 3427 Message: 3447

I got a note from Ron this morning regarding his "Drake Sale Price History" mentioned below.

He IS updating it _currently_. Obviously it's not updated "hourly" or "daily", but as he notices
or finds something he adds it in.

So it's considerably more up to date than any of the other lists that I have heard of, or found.

73, Garey - K4OAH
Glen Allen, VA

>>>>>>>>>><<<<<<<<<<

Not to bash anyone, but "Joetracker" hasn't been updated for four years! I don't think I would put
a whole lot of faith in those numbers.

I believe the listing at

<http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm>

is more in line with current prices, although there is no mention of the last update time. Might be
interesting to hear from Ron.

3448. RE: [DrakeRadio] Drake Sale Price History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 15:17:56 UTC
From: Terrell Hamilton
Topic: 3427 Message: 3448

Greetings, all -

While perusing Ron's listing, I noticed that the R7A is three times the price of an R8. I don't know anything about either one except that they are solid state rcvrs - does anyone know why would the price would be so different? Was the R8 a lemon compared to the R7?

73

Terry

K7WLD

Wenatchee, WA

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Monday, April 05, 2010 6:15 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake Sale Price History

I got a note from Ron this morning regarding his "Drake Sale Price History" mentioned below.

He IS updating it _currently_. Obviously it's not updated "hourly" or "daily", but as he notices
or finds something he adds it in.

So it's considerably more up to date than any of the other lists that I have heard of, or

found.

73, Garey - K4OAH
Glen Allen, VA

>>>>>>>>>><<<<<<<<<<

Not to bash anyone, but
"Joetracker" hasn't been
updated for four years! I
don't think I would put
a whole lot of faith in those
numbers.

I believe the listing at

<http://www.wb4hfn.com/DRAKE/D
rakeSalePriceHistory.htm>

is more in line with current
prices, although there is no
mention of the last update
time. Might be
interesting to hear from Ron.

[Non-text portions of this message have been removed]

3449. Re: [DrakeRadio] Drake Sale Price History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 17:49:09 UTC
From: Garey Barrell
Topic: 3427 Message: 3449

Terry -

There are several differences.

The R-8 is a fairly "stripped down" model compared to the R-8A and R-8B. There is a full page of additional features (some of them important) on the last two versions.

The R-7A is the "top" of the 7 series, sold toward the end of production. It includes the Noise Blanker and CW filter standard, both of which were optional in the R-7. Of course the R-7A is capable of transceive operations with the TR-7 as well.

Aside from their place in history, the R-7/A is a top of the line communications receiver, while the R-8 is more of a top flight SWL receiver, even though my R-8A says "Communications Receiver" right on the front panel. :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Terrell Hamilton wrote:
> Greetings, all -
>
>
>
> While perusing Ron's listing,
> I noticed that the R7A is
> three times the price of an
> R8. I don't know anything
> about either one except that
> they are solid state rcvrs -
> does anyone know why would the
> price would be so different?
> Was the R8 a lemon compared to
> the R7?
>
>
>
> 73
>
> Terry
>
> K7WLD

>
> Wenatchee, WA
>

3450. Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-06 16:32:49 UTC
From: russellhulett
Topic: 3450 Message: 3450

I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B

73, Curt KB5JO

3451. Re: [DrakeRadio] Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-06 16:56:44 UTC
From: Garey Barrell
Topic: 3450 Message: 3451

Curt -

S/N of the 2-B ??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
>
> 73, Curt KB5JO
>
>
>

3452. Neutralizing T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-09 16:56:51 UTC
From: larfla2
Topic: 3452 Message: 3452

Hi guys,
I'm going into my R-4B and T-4XB to do a few checks and updates. Check alignments, install a outboard digital freq. counter, change out the VFO NE-2 and board on the R-4, new finals, etc. My question is about neutralizing the finals. I usually (on other tube rigs) do it with a scope after disconnecting the plate and screen. Is it ok to do it this way on the Drakes? Where do you guys recommend disconnect, if so. Thanks for the input. Larry, W2DDG

3453. Re: Neutralizing T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-09 23:26:41 UTC
From: captcurt2000
Topic: 3452 Message: 3453

Thats the way I have done my A and B models. The easiest spot for me to disconnect is at the feed-thru caps/bushings on the Final side of the bottom chassis partition. Its where all the power comes thru the partition to the bottom of the final compartment.

BTW..you can get it real close just by watching the dip in Ip while looking at the output into a dummy load with a scope.

FWIW

Curt

--- In DrakeRadio@yahoogroups.com, "larfla2" <larfla2@...> wrote:
>
> Hi guys,
> I'm going into my R-4B and T-4XB to do a few checks and updates. Check alignments, install a outboard digital freq. counter, change out the VFO NE-2 and board on the R-4, new finals, etc. My question is about neutralizing the finals. I usually (on other tube rigs) do it with a scope after disconnecting the plate and screen. Is it ok to do it this way on the Drakes? Where do you guys recommend disconnect, if so. Thanks for the input. Larry, W2DDG
>

3454. 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 19:27:44 UTC
From: Richard Knoppow
Topic: 3454 Message: 3454

Does anyone know the settings for the 6HS6 tube for the
TV-7B/U tester. The tube does not show up in any of the
updates for the tester, perhaps it was too new, the last
update seems to have been published in 1972.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3455. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:08:56 UTC
From: Garey Barrell
Topic: 3454 Message: 3455

Richard -

If you have a TV-7, you need

Download <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>

Excel file with just about any tube.

6HS6 6.3 ET1-5627 / Bias 11 / Range D / 3 / Min - 28 / Best seen = 40

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> Does anyone know the settings for the 6HS6 tube for the
> TV-7B/U tester. The tube does not show up in any of the
> updates for the tester, perhaps it was too new, the last
> update seems to have been published in 1972.
>
>
>
>

3456. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:23:39 UTC
From: LEE BAHR
Topic: 3454 Message: 3456

Garey:

Nothing in this file except a preamble sheet.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, April 10, 2010 3:08 PM
Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Richard -

If you have a TV-7, you need

Download <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>

Excel file with just about any tube.

6HS6 6.3 ET1-5627 / Bias 11 / Range D / 3 / Min - 28 / Best seen = 40

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

3457. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:39:50 UTC
From: LEE BAHR
Topic: 3454 Message: 3457

Sorry about the first post. The files are all there. You must open pages near the bottom. Not easy to see.

Lee, w0vt

-----Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Richard -

If you have a TV-7, you need

Download <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>

Excel file with just about any tube.

6HS6 6.3 ET1-5627 / Bias 11 / Range D / 3 / Min - 28 / Best seen = 40

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

3458. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:40:05 UTC
From: Garey Barrell
Topic: 3454 Message: 3458

Lee -

There are several "Sheets" in the Excel "Book".

Clikc on the "US" Settings tab at the bottom.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
> Garey:
>
> Nothing in this file except a preamble sheet.
>
> Lee, w0vt
>
>
>
>

3459. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:40:59 UTC
From: LEE BAHR
Topic: 3454 Message: 3459

I see that now, Garey.

Thanks.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, April 10, 2010 3:40 PM
Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Lee -

There are several "Sheets" in the Excel "Book".

Clikc on the "US" Settings tab at the bottom.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

3460. Re: Neutralizing T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 20:48:11 UTC
From: larfla2
Topic: 3452 Message: 3460

Thank you for the reply and info. Larry, W2DDG

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> Thats the way I have done my A and B models. The easiest spot for me to disconnect is at the feed-thru caps/bushings on the Final side of the bottom chassis partition. Its where all the power comes thru the partition to the bottom of the final compartment.
>
> BTW..you can get it real close just by watching the dip in Ip while looking at the output into a dummy load with a scope.
>
>
> FWIW
>
> Curt
>
> --- In DrakeRadio@yahoogroups.com, "larfla2" <larfla2@> wrote:
> >
> > Hi guys,
> > I'm going into my R-4B and T-4XB to do a few checks and updates. Check alignments, install a outboard digital freq. counter, change out the VFO NE-2 and board on the R-4, new finals, etc. My question is about neutralizing the finals. I usually (on other tube rigs) do it with a scope after disconnecting the plate and screen. Is it ok to do it this way on the Drakes? Where do you guys recommend disconnect, if so. Thanks for the input. Larry, W2DDG
> >
>

3461. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 22:10:50 UTC
From: Mike
Topic: 3454 Message: 3461

Hi Richard,
This is from Nolan E. Lee as of May 9, 2001.

6.3, ET1-5627, Bial 11, Shunt -, Range D, Press 3, Minimum Value 28, Notation Best seen = 40 Data Source DJN

Mike AA8W

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Saturday, April 10, 2010 3:27 PM
Subject: [DrakeRadio] 6HS6 settings for TV-7 Tester

Does anyone know the settings for the 6HS6 tube for the
TV-7B/U tester. The tube does not show up in any of the
updates for the tester, perhaps it was too new, the last
update seems to have been published in 1972.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

3462. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 22:23:15 UTC
From: Paul Pollock
Topic: 3454 Message: 3462

Hi Lee W0VT,

Just for fun, I also downloaded this file. It opened on my Mac using "Numbers" just fine, all data present (at least I think so, it opened with about 9 pages including preamble and TOC <grin>). If I were having your difficulty I'd try the file with another program and see if you get the same results, which are very weird.

Have fun and good luck!

-Paul Pollock
KD7BWB

On Apr 10, 2010, at 1:23 PM, LEE BAHR wrote:

> Garey:
>
> Nothing in this file except a preamble sheet.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, April 10, 2010 3:08 PM
> Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester
>
> Richard -
>
> If you have a TV-7, you need
>
> Download <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>
>
> Excel file with just about any tube.
>
> 6HS6 6.3 ET1-5627 / Bias 11 / Range D / 3 / Min - 28 / Best seen = 40
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

3463. Just for your info...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 22:28:39 UTC
From: Paul Pollock
Topic: 1986 Message: 3463

To Garey Barrell,

Just as an aside, from a very old post, I just recently sent my 31xxx series TR-4 to Jeff Covelli for refurb. From what I've read, he's quite good, and does a thorough rebuild for a fair price <grin>. At least I hope so. No rush anyhow, as my Drake is a shelf unit standby (at least until I get it back. It's such a good radio when it works, I might upgrade it to primary <grin>).

Thanks a bunch all, for all the good ideas here.

-Paul Pollock
KD7BWB

On Mar 5, 2009, at 8:54 PM, Garey Barrell wrote:

> Al -
>
> OK... That is a very late TR-4. Schematic should be 8117030500.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> de_n7ioh wrote:
> > Hi Garey, his serial number is, 31318.
> >
> > Al, n7ioh
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
> >
> >> What serial number??
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >>
> >> Paul Pollock wrote:
> >>
> >>> To Garey K4OAH,

> >>>
> >>> I was given what appear to be the original manual with this TR-4
> >>> (even includes the Drake generated spare parts lists, and other
> >>> misc). So I think I'm safe there <grin>. I'll get to the under-frame
> >>> work eventually, never fear. I"ll let you know what I find (when I
> >>> have found those resistors <grin>).
> >>>
> >>> -Paul Pollock
> >>> KD7BWB
> >>>
>

[Non-text portions of this message have been removed]

3464. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 23:01:28 UTC
From: Richard Knoppow
Topic: 3454 Message: 3464

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 10, 2010 1:08 PM
Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

> Richard -
>
> If you have a TV-7, you need
>
> Download
> <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>
>
> Excel file with just about any tube.
>
> 6HS6 6.3 ET1-5627 / Bias 11 / Range D / 3 / Min - 28 /
> Best seen = 40
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

Thank you Garey. I did a pretty thorough Google search last night but it didn't find this. The data seems very complete plus the transconductance chart should prove valuable.

I discovered I had this tester the other day when I found it in a storage garage (my life is in storage). Mine is a bit beat up but seems to work fine. I don't clearly remember where I got it, probably some surplus store cheap because if its dented up appearance. I don't have any of the accessories but the test leads are easy to make and are the really necessary ones. It has the original databook. I found both normal and depot service manuals on the web plus updates for settings but this chart seems to include settings that users have determined which go beyond the official ones.

My other tester is a Weston, also a mutual transconductance tester, but it does not do the gas test and has a more limited range of tubes. I did not realize that the TV-7 is considered such a valuable instrument but can seen why. BTW, mine is a TV-7B/U made by Foreway.

I also have an RCA tube tester than uses punch cards but there are only a limited number if cards for it. I have to get that out and see if it does compactrons. I think I also have a couple of other testers but am not quite sure

which, maybe a Heathkit and also possibly a Hickock.
While the stuff I have in storage was put in neatly
both have gone through a couple of earthquakes which have
made scrambled eggs of the stuff inside. Nothing damaged but
beyond my physical prowess to re-arrange in order. Some day
I will hire a crew to help with this and, at the same time,
get rid of the junk.
I am still working on a problem on my T-4XB but want to
try a few things before yelling for help again. However, I
think the low microphone gain problem, at least on mine, is
actually an AGC problem due to leakage somewhere. Again, I
am still working on this but I suggest to others that have
posted with a similar problem to compare SSB to AM. If you
have enough gain in AM the problem is probably not in audio
circuit. Another clue is to short the AGC line and see if
the gain goes up to normal in SSB. This is most easily done
at the RCA jack on the AC-4 supply that is intended to feed
AGC to a power amplifier. If the gain goes up to normal
(full modulation) the problem is probably in the AGC.
It would have been nice to get a T4-XB with fewer
problems but I have gotten a very liberal education out of
it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3465. Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-10 23:02:49 UTC
From: Richard Knoppow
Topic: 3454 Message: 3465

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 10, 2010 1:08 PM
Subject: Re: [DrakeRadio] 6HS6 settings for TV-7 Tester

> Richard -
>
> If you have a TV-7, you need
>
> Download
> <http://www.antiqueairwaves.com/nlee/files/tv-7_097.zip>
>
> Excel file with just about any tube.

Oh, dear, in my previous rather wordy post, I forgot to mention that I had downloaded this file and it opens fine in Excell Viewer.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3466. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 00:27:36 UTC
From: russellhulett
Topic: 3450 Message: 3466

Tested 2B S/N 9611 as follows:

Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?

73, Curt KB5JO

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> S/N of the 2-B ??
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> russellhulett wrote:
> > I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
> >
> > 73, Curt KB5JO
> >
> >
> >
>

3467. !0 meter crystal for the TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 01:03:39 UTC
From: n5dpk
Topic: 3467 Message: 3467

Need a 10 meter crystal for a TR-3. 28500 to 29000 will do or 28000 to 28500. Thanks all!

Dennis

3468. Re: [DrakeRadio] !0 meter crystal for the TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 01:12:41 UTC
From: Mike
Topic: 3467 Message: 3468

Hi Dennis,

Try Bry AF4K http://www.af4k.com/crystals.htm

Mike AA8W

----- Original Message -----
From: n5dpk
To: DrakeRadio@yahoogroups.com
Sent: Sunday, April 11, 2010 9:03 PM
Subject: [DrakeRadio] !0 meter crystal for the TR-3

Need a 10 meter crystal for a TR-3. 28500 to 29000 will do or 28000 to 28500. Thanks all!

Dennis

[Non-text portions of this message have been removed]

3469. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 02:34:18 UTC
From: Garey Barrell
Topic: 3450 Message: 3469

What happens in FAST AVC? If the voltage goes more negative, or if the receiver mutes fully, you may have a leaky cap at C68. A contaminated (WD-40 or other contaminant sprayed in it?) STDBY - RECV switch. It's a challenge to understand just how high impedance this circuit is.
Doesn't take much voltage to hold it down.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> Tested 2B S/N 9611 as follows:
>
> Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?
>
> 73, Curt KB5JO
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Curt -
>>
>> S/N of the 2-B ??
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> russellhulett wrote:
>>
>>> I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
>>>
>>> 73, Curt KB5JO
>>>

3470. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 02:44:17 UTC
From: Garey Barrell
Topic: 3450 Message: 3470

Curt -

Just to avoid overlooking the obvious.... Have you tried substituting V1, V2, V3 and V4? AVC2 is applied to each of these, and is what is supposed to cut them off in standby.

Nine volts should be more than enough to cut off all four of those tubes. You may also have a resistor that has gone up in value. Check the voltage on V1, Pin 1; V2, Pin 2; V3, Pin 7 and V4, Pin 7. Each one should be about -6 to -8V with the receiver in standby.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

russellhulett wrote:
> Tested 2B S/N 9611 as follows:
>
> Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?
>
> 73, Curt KB5JO
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Curt -
>>
>> S/N of the 2-B ??
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> russellhulett wrote:
>>
>>> I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
>>>

>>> 73, Curt KB5JO
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3471. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 14:07:12 UTC
From: russellhulett
Topic: 3450 Message: 3471

No, I have not tried substituting tubes, just pulled one at a time to see if any were pulling down the voltage. AVC fast the voltage is 7-15, AVC slow it is 8-15. Just to be clear, I've done nothing with V3, the CD talked about V1,V2,V4, and V5. Is V3 also potential issue?

I am noticing that the Standby/Receive switch may be less than perfect. I don't like to use deoxit or wd40 or other "cleaner" without VERY good reason. In fact, I'm not much of a deoxit fan in the first place. Especially with these slide-action switches, afraid of making things worse not better. How do you deal with dirty switches?

I'll check the tube voltages as time permits today.

Thanks again, 73 Curt KB5JO

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> Just to avoid overlooking the obvious.... Have you tried substituting
> V1, V2, V3 and V4? AVC2 is applied to each of these, and is what is
> supposed to cut them off in standby.
>
> Nine volts should be more than enough to cut off all four of those
> tubes. You may also have a resistor that has gone up in value. Check
> the voltage on V1, Pin 1; V2, Pin 2; V3, Pin 7 and V4, Pin 7. Each one
> should be about -6 to -8V with the receiver in standby.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> russellhulett wrote:
> > Tested 2B S/N 9611 as follows:
> >
> > Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?
> >
> > 73, Curt KB5JO
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >

> >> Curt -
> >>
> >> S/N of the 2-B ??
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> russellhulett wrote:
> >>
> >>> I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
> >>>
> >>> 73, Curt KB5JO
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3472. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 14:31:01 UTC
From: Garey Barrell
Topic: 3450 Message: 3472

Curt -

No, my mistake. Too late! :-)

V3 is not on either AGC bus.

I agree on the "cleaning" products. DeoxIT is pretty reliable if used
in liquid form, but can be a contaminant and/or dust catcher if sprayed
indiscriminately. You can lift the wire from the switch, either
terminal, to check.

Before you do that, try measuring the voltage on each grid mentioned
below, substituting Pin 1 of V5 instead of Pin 7 of V3. You have plenty
of AVC voltage to cut off the receiver, so we have to find out why this
voltage is either not getting to these four tube's grids - or - why this
large negative voltage is NOT cutting off one or more tubes.

73, Garey - K4OAH
Glen Allen, VA

russellhulett wrote:
> No, I have not tried substituting tubes, just pulled one at a time to see if any were pulling down the voltage. AVC fast the voltage is 7-15, AVC slow it is 8-15. Just to be clear, I've done nothing with V3, the CD talked about V1,V2,V4, and V5. Is V3 also potential issue?
>
> I am noticing that the Standby/Receive switch may be less than perfect. I don't like to use deoxit or wd40 or other "cleaner" without VERY good reason. In fact, I'm not much of a deoxit fan in the first place. Especially with these slide-action switches, afraid of making things worse not better. How do you deal with dirty switches?
>
> I'll check the tube voltages as time permits today.
>
> Thanks again, 73 Curt KB5JO
>
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>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Curt -
>>
>> Just to avoid overlooking the obvious.... Have you tried substituting
>> V1, V2, V3 and V4? AVC2 is applied to each of these, and is what is
>> supposed to cut them off in standby.

>>
>> Nine volts should be more than enough to cut off all four of those
>> tubes. You may also have a resistor that has gone up in value. Check
>> the voltage on V1, Pin 1; V2, Pin 2; V3, Pin 7 and V4, Pin 7. Each one
>> should be about -6 to -8V with the receiver in standby.
>>
>> 73, Garey - K4OAH
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>> russellhulett wrote:
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>>> Tested 2B S/N 9611 as follows:
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>>> Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?
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>>> 73, Curt KB5JO
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>> Curt -
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>>>> S/N of the 2-B ??
>>>>
>>>> 73, Garey - K4OAH
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>>>>> 73, Curt KB5JO
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3473. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 19:07:41 UTC
From: russellhulett
Topic: 3450 Message: 3473

After checking the voltage on the AVC line at the respective tube pins (V1 pin 1, V2 pin 2, V4 Pin 7, V5 pin 1), all are the same, only now at -6VDC to -15VDC RF max gain - RF Min Gain, Standby. I pulled tubes one-at-a-time, replaced with other tubes, no change.

I'm concluding that whatever is dragging down AVC voltage isn't associated with the tubes. And, the available AVC voltage seems to tail off the longer the receiver is turned on. I noticed when using with the T-4XB that the muting seemed to get less reliable the longer the receiver was turned on.

I measure the AVC line and mute line resistance at 10.5 megohm.
Pin 1 of the 8BN8 is -21 VDC. Instructions state that should have
-9VDC to mute and appears there is less than -6VDC at maximum RF gain.

73, Curt KB5JO

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Curt -
>
> No, my mistake. Too late! :-)
>
> V3 is not on either AGC bus.
>
> I agree on the "cleaning" products. DeoxIT is pretty reliable if used
> in liquid form, but can be a contaminant and/or dust catcher if sprayed
> indiscriminately. You can lift the wire from the switch, either
> terminal, to check.
>
> Before you do that, try measuring the voltage on each grid mentioned
> below, substituting Pin 1 of V5 instead of Pin 7 of V3. You have plenty
> of AVC voltage to cut off the receiver, so we have to find out why this
> voltage is either not getting to these four tube's grids - or - why this
> large negative voltage is NOT cutting off one or more tubes.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
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>
> russellhulett wrote:
> > No, I have not tried substituting tubes, just pulled one at a time to see if any were pulling down the voltage. AVC fast the voltage is 7-15, AVC slow it is 8-15. Just to be clear, I've done nothing with V3, the CD talked about V1,V2,V4, and V5. Is V3 also potential issue?
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> > I am noticing that the Standby/Receive switch may be less than perfect. I don't like to

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> >
> > I'll check the tube voltages as time permits today.
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> > Thanks again, 73 Curt KB5JO
> >
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> >
> > --- In DrakeRadio@...m, Garey Barrell<k4oah@> wrote:
> >
> >> Curt -
> >>
> >> Just to avoid overlooking the obvious.... Have you tried substituting
> >> V1, V2, V3 and V4? AVC2 is applied to each of these, and is what is
> >> supposed to cut them off in standby.
> >>
> >> Nine volts should be more than enough to cut off all four of those
> >> tubes. You may also have a resistor that has gone up in value. Check
> >> the voltage on V1, Pin 1; V2, Pin 2; V3, Pin 7 and V4, Pin 7. Each one
> >> should be about -6 to -8V with the receiver in standby.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> russellhulett wrote:
> >>
> >>> Tested 2B S/N 9611 as follows:
> >>>
> >>> Per suggestions and notes in the CD, I measured voltage at the mute terminals using VTVM with 2B in standby. RF gain at max the voltage is 7VDC, RF gain at minumum it is 15 VDC. Removing V1, V2, V4, or V5 makes no difference. AVC in slow, the voltages range from 8 to 15. Evidently the tubes are ok, The AVC is set per the instructions. Any other ideas?
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> >>> 73, Curt KB5JO
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>
> >>>
> >>>> Curt -
> >>>>
> >>>> S/N of the 2-B ??
> >>>>
> >>>> 73, Garey - K4OAH

> >>>> Glen Allen, VA
> >>>>
> >>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
> >>>>
> >>>>
> >>>> russellhulett wrote:
> >>>>
> >>>>
> >>>>> I own a 2B, which recently tried to use with my T-4XB. Muting isn't adequate. That is, sometimes I hear signal breakthrough. Does this sound like a tube problem in the Drake. The T-4XB paired with my R-4A works FB so the problem seems to be in the 2B
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> >>>>> 73, Curt KB5JO
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3474. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 19:36:52 UTC
From: Garey Barrell
Topic: 3450 Message: 3474

Curt -

Perhaps I'm misunderstanding.... When in STBY, the voltage on the AVC line should go to -9 or greater at the AVC terminal, regardless of the position of the RF GAIN control.

Does the receiver mute completely when you turn the RF GAIN to Min?

73, Garey - K4OAH
Glen Allen, VA

russellhulett wrote:
> After checking the voltage on the AVC line at the respective tube pins (V1 pin 1, V2 pin 2, V4 Pin 7, V5 pin 1), all are the same, only now at -6VDC to -15VDC RF max gain - RF Min Gain, Standby. I pulled tubes one-at-a-time, replaced with other tubes, no change.
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> I'm concluding that whatever is dragging down AVC voltage isn't associated with the tubes. And, the available AVC voltage seems to tail off the longer the receiver is turned on. I noticed when using with the T-4XB that the muting seemed to get less reliable the longer the receiver was turned on.
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> I measure the AVC line and mute line resistance at 10.5 megohm.
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> 73, Curt KB5JO
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>> V3 is not on either AGC bus.
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>> I agree on the "cleaning" products. DeoxIT is pretty reliable if used
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>> 73, Garey - K4OAH
>> Glen Allen, VA
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>>>>>>> 73, Curt KB5JO

3475. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 20:16:49 UTC
From: russellhulett
Topic: 3450 Message: 3475

On this 2B, when in STBY, the voltage at the AVC terminal (and the Mute terminal) varies from -6 VDC with RF gain at maximum to -15 VDC with the RF gain at minimum. As I look at the schematic, it looks to me like AVC2 line does vary as RF gain pot is changed.

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> Perhaps I'm misunderstanding.... When in STBY, the voltage on the AVC
> line should go to -9 or greater at the AVC terminal, regardless of the
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3476. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 20:41:33 UTC
From: Garey Barrell
Topic: 3450 Message: 3476

Nope.....

IF the MUTE terminal is "open", and the STBY/RCV switch is "open" the RF GAIN control is just in series with the -21V supply to the tube grids. The tube grid terminals should draw NO current, therefore NO drop across the RF GAIN control regardless of position. ALL of the voltage divider resistors to ground are lifted by opening the switch.

You have leakage to ground somewhere on the AVC2 bus. The terminal strip, switch, tube socket or wiring insulation is breaking down somewhere.

It only takes a few microamps of leakage current to drop that voltage. I have seen tube sockets or phenolic insulation board that has been sprayed develop much more leakage than that.....

If you are suspicious of the switch, I'd lift the wire to check. 10.5 Meg resistance to ground from the bus would account for dragging the voltage down to less than half the -21 V.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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russellhulett wrote:
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> Yahoo! Groups Links
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3477. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-12 23:17:38 UTC
From: russellhulett
Topic: 3450 Message: 3477

Thanks Garey, I'll just start lifting AVC2 connections, starting with the switch. Maybe someone used deoxit on the tube sockets? I've heard of folks doing that. Just curious, what would you rate probability of finding and correcting the problem? I had one fellow tell me the 2B mute circuit was a nightmare that would never end, working on it was a waste of time and the 2B was best used for SWL.

73, Curt KB5JO

3478. Re: [DrakeRadio] Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 01:56:31 UTC
From: Garey Barrell
Topic: 3450 Message: 3478

Curt -

Anything can be fixed. The 2-B is a terrific receiver, and deserves repair.

Perhaps if you don't understand (or believe?) Ohm's Opinion, then maybe not.

It's just a matter of patience and doing something for a reason, by deduction, not just "shotgunning" tubes and parts.

Any unsealed phenolic can become contaminated with so-called "cleaners". Usually the only way to recover is to replace them. Once you determine what the problem is, THEN you decide if you want to do what's necessary to repair it.

One other obscure possibility is that the Bias Adj pot (R48) itself gets some kind of gunk sprayed in it that forms a leakage path to ground. I found one of those once by loosening the hardware and letting it "float".

Going back to Mr. Ohm, what do you measure from the MUTE terminal to ground with nothing connected to it? Should read a very high resistance. Reverse the ohmmeter leads and see if the reading changes.

73, Garey - K4OAH
Glen Allen, VA

russellhulett wrote:
> Thanks Garey, I'll just start lifting AVC2 connections, starting with the switch. Maybe someone used deoxit on the tube sockets? I've heard of folks doing that. Just curious, what would you rate probability of finding and correcting the problem? I had one fellow tell me the 2B mute circuit was a nightmare that would never end, working on it was a waste of time and the 2B was best used for SWL.
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3479. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 13:20:29 UTC
From: russellhulett
Topic: 3450 Message: 3479

Garey,

I measure 26 megohms both ways with my Voltohmyst from the mute terminal to ground. I've read some about R48 developing a leak to ground as possible cause for muting problems.

73, Curt KB5JO

3480. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 14:30:32 UTC
From: PaulG
Topic: 3450 Message: 3480

I remember having this muting problem in my 1st Drake 2B in 1965 or so. Several weak tubes were replaced and then it was fine again. Like Garey mentions several tubes have the muting voltage applied to them.

My current 2B is working well thanks to this group!

73 from the Beautiful Eastern Shore of Maryland
K3PG

3481. Drake C-line tuning dial skirt ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 19:25:44 UTC
From: arsnf7z
Topic: 3481 Message: 3481

my R4C is almost perfect. that is, except for the main tuning dial aluminum skirt. when the radio was out of my possession, someone for whatever reason, scraped some of the coating off of the skirt.

anyone know how to recondition it or find a replacement? it almost appears that there is a clear coating over the aluminum, and if I can remove it and reapply, I'll be in business. once upon a time, I found a site that was advertising these skirts, but with all my sleuthing abilities I cannot find it once again.

thanks ...

73's,

NF7Z, daniel

3482. TR4C and R4C in harmony ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 19:20:14 UTC
From: arsnf7z
Topic: 3482 Message: 3482

greetings from the San Juan Islands north of Seattle. I have owned a R4C since new and recently bought a TR4C. the obvious issues are how to 'spot', using the R4C and the working receiver. I am wondering if anyone has a recommended method for receiving a CW or SSB signal with the R4C and then spotting the TR4C to transmit. all this without blowing the front-end of the R4C of course! perhaps a combination of external mute .. and if the TR4C wasn't mint, I could craft a spotting-function as in the T4XC.

also looking for a MN-2000 for antenna matching.

thank you ...

NF7Z, daniel

3483. Re: [DrakeRadio] TR4C and R4C in harmony ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 19:43:36 UTC
From: Garey Barrell
Topic: 3482 Message: 3483

Daniel -

I've never tried this, but it looks like you should be able to just turn XMTR GAIN to minimum and key the PTT. There's probably enough carrier leakage to enable you to tune the transceiver to the receiver frequency.

Actually, if you're in a quiet room, you can probably just key the PTT on SSB, and as long as nothing is picked up by the mic there will be essentially no output power.

On CW, just turn the XMTR GAIN to minimum, and key the transmitter in X-CW.

Actually, you can probably key the transceiver at full power and it wouldn't hurt the receiver front end. The relay isolation is pretty good, and should be enough to protect the receiver. Putting the receiver in MUTE does nothing to protect the front end of the receiver. MUTE only applies cut-off bias to several stages of either the internal or external receiver.

Now IF you were to connect the output of the transceiver directly to the input of the receiver, you'd definitely need a new T1!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
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> NF7Z, daniel
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3484. Re: [DrakeRadio] Drake C-line tuning dial skirt ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-13 19:46:36 UTC
From: Garey Barrell
Topic: 3481 Message: 3484

Daniel -

John Kriner, "'The Man's' Amateur Parts Supply", may have one of those dials.

<http://stores.ebay.com/The-Mans-Amateur-Parts-Supply>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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arsnf7z wrote:
> my R4C is almost perfect. that is, except for the main tuning dial aluminum skirt. when the radio was out of my possession, someone for whatever reason, scraped some of the coating off of the skirt.
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> anyone know how to recondition it or find a replacement? it almost appears that there is a clear coating over the aluminum, and if I can remove it and reapply, I'll be in business. once upon a time, I found a site that was advertising these skirts, but with all my sleuthing abilities I cannot find it once again.
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3485. Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 11:46:56 UTC
From: mike
Topic: 3485 Message: 3485

I know that microphony in audio valves isn't uncommon, but I don't know whether it signifies a fault or should just be tolerated.

I normally use my Drake R-4B rx with the audio gain at max and just use the RF gain control.

I've noticed, especially when wearing headphones, that the slightest touch to the o/p valve (6EH5) or a tap to the rx case is clearly audible.

It's not causing me any problems, but I'd like to know whether I should replace the valve or is the replacement likely to do the same thing?

Thanks,
Mike
2E0MOM

3486. need ac-4 supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 14:21:06 UTC
From: yash@aol.com
Topic: 3486 Message: 3486

Looking for a ac-4 supply. Cosmetics not important,need good transformer and choke. Will consider all. including a ac-3.
thanks
dale wt4t

[Non-text portions of this message have been removed]

3487. Re: [DrakeRadio] Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 15:12:58 UTC
From: g4jss@tiscali.co.uk
Topic: 3485 Message: 3487

Mike

I may be wrong but I think you are doing this the wrong way round.

So far as I understand it the RF gain is usually set at max and the level of audio controlled by the AF gain.

As I have never had an R4B I can't say that you are mistaken with the way you are using the controls but I'm sure that the general practice is RF gain at max (unless you get a strong signal that overload the front end) and then adjust the audio (volume) with the AF gain.

Vic

G4JSS

[Non-text portions of this message have been removed]

3488. Re: [DrakeRadio] Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 17:42:58 UTC
From: Richard Knoppow
Topic: 3485 Message: 3488

----- Original Message -----
From: <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, April 14, 2010 8:12 AM
Subject: Re: [DrakeRadio] Microphony in valves

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> sure that the general practice is RF gain at max (unless
> you get a strong signal that overload the front end) and
> then adjust the audio (volume) with the AF gain.
>
> Vic
>
> G4JSS
>

I agree that this is not the normal way to operate this RX. I sometimes do back down the RF when strong signals make the AVC pump and occasionally use it in manual gain.
However, I checked my R4XB for microphonics. I used a pair of low impedance (50 Ohm) phones, sensitive enough to hear just a bit of noise even with the AF gain at minimum. With the AF gain at maximum and the RF at minimum I can just barely hear some microphonics from the ouput tube. I can tap the tube with the end of a screwdriver stuck through the ventillating holes in the case and hear it but its not loud and is not audible in the loudspeaker.
You could try another tube but, again, running AF gain wide open is not the usual way to do it. If you _must_ do this there is likely something wrong with the AVC.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3489. Re: [DrakeRadio] Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 18:51:52 UTC
From: Garey Barrell
Topic: 3485 Message: 3489

Richard Knoppow wrote:
> ----- Original Message -----
> From:<g4jss@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, April 14, 2010 8:12 AM
> Subject: Re: [DrakeRadio] Microphony in valves
>
>> Mike
>>
>> I may be wrong but I think you are doing this the wrong
>> way round.
>>
>> So far as I understand it the RF gain is usually set at
>> max and the level of audio controlled by the AF gain.
>>
>> As I have never had an R4B I can't say that you are
>> mistaken with the way you are using the controls but I'm
>> sure that the general practice is RF gain at max (unless
>> you get a strong signal that overload the front end) and
>> then adjust the audio (volume) with the AF gain.
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>> Vic
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> RX. I sometimes do back down the RF when strong signals make
> the AVC pump and occasionally use it in manual gain.
> However, I checked my R4XB for microphonics. I used a
> pair of low impedance (50 Ohm) phones, sensitive enough to
> hear just a bit of noise even with the AF gain at minimum.
> With the AF gain at maximum and the RF at minimum I can just
> barely hear some microphonics from the ouput tube. I can tap
> the tube with the end of a screwdriver stuck through the
> ventillating holes in the case and hear it but its not loud
> and is not audible in the loudspeaker.
> You could try another tube but, again, running AF gain
> wide open is not the usual way to do it. If you _must_ do
> this there is likely something wrong with the AVC.
>
>
Yes, typically the RF GAIN is max CW and volume controlled by the AF
GAIN control. The "max AF, control with RF" was correct procedure back
when receivers had diode detectors that were easily overloaded. In the

Drake receivers, the Product Detector and AVC are designed to deal with this, and maintain a constant AF output with widely varying signal strengths. IF you have a very strong interfering signal that is depressing the AVC, and thus the desired station, THEN you can turn the AVC OFF, increase the AF GAIN and control the levels with the RF GAIN control.

That said, the AF stages in the Drake receivers ALWAYS operate at maximum gain. The output level is controlled by adjusting the amount of audio INPUT to the amplifier stages. Since your microphonic behavior is produced by tapping on the AF output tube, it IS the tube that is microphonic. Possibly a loose element support or similar. Replacing the 6EH5 should solve the problem, assuming the NEW tube is OK. Check the Cathode voltage on the stage, if over or under about 4.5V, you may have a cathode resistor that has gone up in value, (higher voltage,) or a leaky cathode bypass, (lower voltage,) both of which are fairly common in receivers this old.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3490. Re: Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 19:50:24 UTC
From: mike
Topic: 3485 Message: 3490

It sounds as though my valve is noisy, then. The ringing from the electrodes is quite clear and pronounced.

I must stress that everything is fine if I leave it alone. There is only noise if I tap the valve.

The AVC works fine, but I much prefer to run the way I do as it stops the background noise coming up on weak signals or during QSB.

Effectively the AVC is disabled at the low RF gain I normally use, but I have to compensate manually for different signals... not a problem.

Try it! You might like it! :)

73,
Mike

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: <g4jss@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, April 14, 2010 8:12 AM
> Subject: Re: [DrakeRadio] Microphony in valves
>
>
> >
> > Mike
> >
> > I may be wrong but I think you are doing this the wrong
> > way round.
> >
> > So far as I understand it the RF gain is usually set at
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> > As I have never had an R4B I can't say that you are
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> > sure that the general practice is RF gain at max (unless
> > you get a strong signal that overload the front end) and
> > then adjust the audio (volume) with the AF gain.
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> > Vic
> >
> > G4JSS
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> I agree that this is not the normal way to operate this
> RX. I sometimes do back down the RF when strong signals make
> the AVC pump and occasionally use it in manual gain.
> However, I checked my R4XB for microphonics. I used a
> pair of low impedance (50 Ohm) phones, sensitive enough to
> hear just a bit of noise even with the AF gain at minimum.
> With the AF gain at maximum and the RF at minimum I can just
> barely hear some microphonics from the ouput tube. I can tap
> the tube with the end of a screwdriver stuck through the
> ventillating holes in the case and hear it but its not loud
> and is not audible in the loudspeaker.
> You could try another tube but, again, running AF gain
> wide open is not the usual way to do it. If you _must_ do
> this there is likely something wrong with the AVC.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3491. Re: Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 19:56:37 UTC
From: mike
Topic: 3485 Message: 3491

Thanks, Garey.

I'll check the cathode circuit later, but it does look as though my tube has a problem.

I've tried running with max rf & controlling the audio, but I find the constantly varying background noise level really annoying, so I run the other way around, which I much prefer.

I can listen to very weak signals quite easily, with only as much noise as is unavoidable. The only downside is that I have to do the AVC myself. :)

73,
Mike

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
>
> Richard Knoppow wrote:
> > ----- Original Message -----
> > From:<g4jss@...>
> > To:<DrakeRadio@yahoogroups.com>
> > Sent: Wednesday, April 14, 2010 8:12 AM
> > Subject: Re: [DrakeRadio] Microphony in valves
> >
> >> Mike
> >>
> >> I may be wrong but I think you are doing this the wrong
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> >>
> >> So far as I understand it the RF gain is usually set at
> >> max and the level of audio controlled by the AF gain.
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> >> sure that the general practice is RF gain at max (unless
> >> you get a strong signal that overload the front end) and
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> >>
> >>
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> > RX. I sometimes do back down the RF when strong signals make
> > the AVC pump and occasionally use it in manual gain.

> > However, I checked my R4XB for microphonics. I used a
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> > With the AF gain at maximum and the RF at minimum I can just
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> GAIN control. The "max AF, control with RF" was correct procedure back
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> Drake receivers, the Product Detector and AVC are designed to deal with
> this, and maintain a constant AF output with widely varying signal
> strengths. IF you have a very strong interfering signal that is
> depressing the AVC, and thus the desired station, THEN you can turn the
> AVC OFF, increase the AF GAIN and control the levels with the RF GAIN
> control.
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> That said, the AF stages in the Drake receivers ALWAYS operate at
> maximum gain. The output level is controlled by adjusting the amount of
> audio INPUT to the amplifier stages. Since your microphonic behavior is
> produced by tapping on the AF output tube, it IS the tube that is
> microphonic. Possibly a loose element support or similar. Replacing
> the 6EH5 should solve the problem, assuming the NEW tube is OK. Check
> the Cathode voltage on the stage, if over or under about 4.5V, you may
> have a cathode resistor that has gone up in value, (higher voltage,) or
> a leaky cathode bypass, (lower voltage,) both of which are fairly common
> in receivers this old.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

3492. RE: [DrakeRadio] need ac-4 supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-14 22:19:25 UTC
From: Martin
Topic: 3486 Message: 3492

Hello Dale i have a very good AC4 for 70 + shipping. Just 120 cord change for a 3 wire.

Martin

VE2EDK VA2ZO

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de yash@...
Envoyé : 14 avril 2010 10:21
À : DrakeRadio@yahoogroups.com
Objet : [DrakeRadio] need ac-4 supply

Looking for a ac-4 supply. Cosmetics not important,need good transformer and choke. Will consider all. including a ac-3.
thanks
dale wt4t

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3493. RX back again, a question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-15 02:29:29 UTC
From: Forrest Plumstead
Topic: 3493 Message: 3493

I have seen several queries about sudden problems, and the first suggestion is pull the tubes and re-seat them. So when I got noise out of my TR-4 but no stations, that's the first thing I did, and wha-la it's talking again. Thanks for the tip.

I have been having trouble with my sideband switch. I have to jiggle it around before I can get a clean signal from it. Can I use WD-40 to solve this or do I have to have the electronic contact cleaner?

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html

[Non-text portions of this message have been removed]

3494. Re: [DrakeRadio] RX back again, a question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-15 03:04:39 UTC
From: Richard Knoppow
Topic: 3493 Message: 3494

----- Original Message -----
From: "Forrest Plumstead" <fplum1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, April 14, 2010 7:29 PM
Subject: [DrakeRadio] RX back again, a question.

>I have seen several queries about sudden problems, and the
>first suggestion
> is pull the tubes and re-seat them. So when I got noise
> out of my TR-4 but
> no stations, that's the first thing I did, and wha-la it's
> talking again.
> Thanks for the tip.
>
> I have been having trouble with my sideband switch. I have
> to jiggle it
> around before I can get a clean signal from it. Can I use
> WD-40 to solve
> this or do I have to have the electronic contact cleaner?
>
Use contact cleaner. WD-40 leaves an oily residue. I
don't know if its conductive but I think it might be. At any
rate, WD-40 is not an effective contact cleaner.
Opinions vary but Caig products seem to be the best.
They make De-Oxid in a couple of variations. Reports are
that their "Gold" is about the best. However, I suggest you
get the kind that comes in a bottle and not the spray-on
type. The liquid is applied with a small brush or similar
tool and you can control where it goes; the spray goes all
over the place.
I have also had good results by applying Tunerlub made
by GC after using the contact cleaner. I've tried this
combination on a couple of rotary switches which were
persistenty noisy, for instance, the bandwidth switch on a
Hammarlund SP-600-JX. This wouldn't stay quiet for more than
a few days after treating with contact cleaner but has
stayed quiet for more than a year after applying Tunerlub.
Its a light, non-conductive, grease that can be applied with
a brush, the end of a paper clip or other suitable tool. It
also works well for lubricating the ball bearings in
variable capacitors.
The shaft bearings of switches and pots can be
lubricated with light oil. I prefer the synthetic oil
available in hobby shops because it does not become gummy.
Use a minimum amount applied as above with a small brush or

wire pick-up tool. I also use this stuff on the escapement
in camera shutters where it seems to work well and last
forever.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3495. Re: [DrakeRadio] Microphony in valves

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-15 03:25:30 UTC
From: Jim Shorney
Topic: 3485 Message: 3495

On Wed, 14 Apr 2010 14:51:52 -0400, Garey Barrell wrote:

>Yes, typically the RF GAIN is max CW and volume controlled by the AF
>GAIN control. The "max AF, control with RF" was correct procedure back
>when receivers had diode detectors that were easily overloaded. In the
>Drake receivers, the Product Detector and AVC are designed to deal with
>this, and maintain a constant AF output with widely varying signal
>strengths. IF you have a very strong interfering signal that is
>depressing the AVC, and thus the desired station, THEN you can turn the
>AVC OFF, increase the AF GAIN and control the levels with the RF GAIN
>control.

Unless I'm trying to dig out a weak one, I like the improvement in S/N ratio
that backing off the RF gain provides. It can also help with close-in
interfering signals by movng them a bit farther down the skirts of the crystal
fitler. Kind of hard to visualize, but it works.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3496. Re: [DrakeRadio] RX back again, a question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-15 03:27:10 UTC
From: marc k
Topic: 3493 Message: 3496

Actually, the biggest problem with using WD-40 is not that it leaves an oily residue(that is not always a bad thing, btw)-the big problem is that the "oily residue" is basically Kerosene mixed with the sludge that remains after you remove all of the "good stuff" from petroleum.
The Kerosene dissoves the sludge-so all seems ok for a little while...but Kerosene evaporates fairly quickly(actual lubricating oil does NOT, btw).
Once the Kerosene goes-the sludge turns back to it's original form-generally making things worse than they were in the first place.
I've seen the stuff lock bearing races SOLID!
As for Caig-yes their stuff is excellent-their basic product, Deoxit is good-but it's intended more for switches than pots-it works adequately for them in most cases though.
Just watch out with rotary switches-it is NOT a non-residue cleaner.
You can use it on them, but apply it carefully, only where needed-don't "hose down" the switch.
The best product that they make, in general, is the 100% liquid-it comes with a application needle.
It's costly, but if used properly, one bottle will last for many YEARS!
If you were just going to buy one item from Caig, that's the one I'd reccommend.
The product you are looking for is:Deoxit D100.

On Wed, Apr 14, 2010 at 11:04 PM, Richard Knoppow <1oldlens1@...>wrote:

>
>
>
> ----- Original Message -----
> From: "Forrest Plumstead" <fplum1@... <fplum1%40gmail.com>>
> To: <DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>>
> Sent: Wednesday, April 14, 2010 7:29 PM
> Subject: [DrakeRadio] RX back again, a question.
>
> >I have seen several queries about sudden problems, and the
> >first suggestion
> > is pull the tubes and re-seat them. So when I got noise
> > out of my TR-4 but
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> > WD-40 to solve
> > this or do I have to have the electronic contact cleaner?
> >
> Use contact cleaner. WD-40 leaves an oily residue. I
> don't know if its conductive but I think it might be. At any
> rate, WD-40 is not an effective contact cleaner.
> Opinions vary but Caig products seem to be the best.
> They make De-Oxid in a couple of variations. Reports are
> that their "Gold" is about the best. However, I suggest you
> get the kind that comes in a bottle and not the spray-on
> type. The liquid is applied with a small brush or similar
> tool and you can control where it goes; the spray goes all
> over the place.
> I have also had good results by applying Tunerlub made
> by GC after using the contact cleaner. I've tried this
> combination on a couple of rotary switches which were
> persistenty noisy, for instance, the bandwidth switch on a
> Hammarlund SP-600-JX. This wouldn't stay quiet for more than
> a few days after treating with contact cleaner but has
> stayed quiet for more than a year after applying Tunerlub.
> Its a light, non-conductive, grease that can be applied with
> a brush, the end of a paper clip or other suitable tool. It
> also works well for lubricating the ball bearings in
> variable capacitors.
> The shaft bearings of switches and pots can be
> lubricated with light oil. I prefer the synthetic oil
> available in hobby shops because it does not become gummy.
> Use a minimum amount applied as above with a small brush or
> wire pick-up tool. I also use this stuff on the escapement
> in camera shutters where it seems to work well and last
> forever.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@ix.netcom.com <dickburk%40ix.netcom.com>
>
>
>

[Non-text portions of this message have been removed]

3497. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-18 19:00:02 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3497

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3498. Re: Drake 2B Inadequate muting

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-18 20:22:46 UTC
From: russellhulett
Topic: 3450 Message: 3498

After taking various voltage readings at V1, V2, V4 & V5, reassembled the 2B and reconnected to the T-4XB with intent of measuring voltage at the mute terminals and 2B RF gain necessary to mute.

For whatever reason, muting is now reliable and have been using the pair for CW QSOs without difficulty. Not sure what has changed, maybe the muting cable was somehow shorted, but change has been for the better. The other change was to locate the 2B away from the MN4-C, before it was adjacent to the tuner.

73, Curt KB5JO

3499. RE: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-05 10:49:25 UTC
From: Ivan Shapiro (KB1STH)
Topic: 206 Message: 3499

Thanks for your kind words.

73

Now .I want those frequencies allocated to extra class licensees.

The jump from general to extra is a huge quantum leap, compared to my initial testing which was tech and general.

There are brand new concepts, foreign to this new ham. Will do my best when I get my head around them.

Study study study

Ivan

KB1STH

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow
Sent: Monday, April 05, 2010 1:18 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] File - Bi-Weekly Statement

----- Original Message -----
From: "Ivan Shapiro (KB1STH)" <KB1STH@...
<mailto:KB1STH%40ivanshapiro.com> >
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Sunday, April 04, 2010 2:40 PM
Subject: RE: [DrakeRadio] File - Bi-Weekly Statement

And BTW, welcome to the amateur radio fraternity (Also a sorority) and congratulations on getting your license. I something of an old timer but had a lapse of many years between beginning and getting back to it. Managed to get an extra-class and my original call back.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...com.com <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

3500. Capacitors needed-TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-19 23:35:22 UTC
From: Lorne Barber
Topic: 3500 Message: 3500

I am new to this list so please excuse me if this is common knowledge.

I am redoing my TR7 and I would like to replace the electrolytic caps on the power supply board which is located just behind the front panel.
While I have basically found a sources for all the caps, they come from several different providers.
My question is, is there someone who supplies these in one package?
7 3
Lorne
ve7box

3501. Re: [DrakeRadio] Capacitors needed-TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-20 01:27:43 UTC
From: Jim Shorney
Topic: 3500 Message: 3501

On Mon, 19 Apr 2010 16:35:22 -0700, Lorne Barber wrote:

>I am redoing my TR7 and I would like to replace the electrolytic caps on the
>power supply board which is located just behind the front panel.

>My question is, is there someone who supplies these in one package?

Lorne,

Not to my knowledge. You might want to contact Tom at Hayseed Hamfest, he may
be interested in puttng together a kit since this is the one area in the TR-7
that should ALWAYS be re-capped (IMO).

http://www.hayseedhamfest.com/

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3502. Re: File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-20 17:57:10 UTC
From: jb
Topic: 206 Message: 3502

Hi Ivan,
Yeah, the study level increases logrithmically for the Extra, unless maybe your career involved some of this stuff. I feel your pain. =) But I kind of like it. Got to be something wrong with us. Just wish I had more time to invest. Lots of great stuff on here. Browse thru the archives here as well.

Welcome

God bless
73
jb
kb6biw

--- In DrakeRadio@yahoogroups.com, "Ivan Shapiro \(KB1STH\)" <KB1STH@...> wrote:
>
> Thanks for your kind words.
>
> 73
>
> Now .I want those frequencies allocated to extra class licensees.
>
> The jump from general to extra is a huge quantum leap, compared to my
> initial testing which was tech and general.
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> There are brand new concepts, foreign to this new ham. Will do my best when
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> Study study study
>
> Ivan
>
> KB1STH
>
>
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> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Richard Knoppow
> Sent: Monday, April 05, 2010 1:18 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] File - Bi-Weekly Statement
>
>
>
>
>
>

>
> ----- Original Message -----
> From: "Ivan Shapiro (KB1STH)" <KB1STH@...
> <mailto:KB1STH%40ivanshapiro.com> >
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
> Sent: Sunday, April 04, 2010 2:40 PM
> Subject: RE: [DrakeRadio] File - Bi-Weekly Statement
>
> And BTW, welcome to the amateur radio fraternity (Also
> a sorority) and congratulations on getting your license. I
> something of an old timer but had a lapse of many years
> between beginning and getting back to it. Managed to get an
> extra-class and my original call back.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@... <mailto:dickburk%40ix.netcom.com>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3503. low-impedance microphone for TR4C and T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-21 13:20:23 UTC
From: arsnf7z
Topic: 3503 Message: 3503

Greetings,

I understand the high input-impedance of the tube microphone circut, and am wondering if anyone has tried to use a microphone like Heil's Fin or GM series, either directly or with a step-up transformer. or, are the levels such that you need to drive the transmitter with a higher level source from a pre-amp.

before I launch into this venture, it might behoove me to ask if anyone else has attempted same, and hear of their observations. I would love to be able to use the HC-5 in my Heil ProSet Plus, without any additional circuitry involved, but I suspect the levels are insufficient to drive fully. it seems to me that even though the microphone is 600 ohms, the mismatch shouldn't be an issue into a high-impedance load.

just thoughts ... any observations?

NF7Z, daniel

3504. Re: [DrakeRadio] low-impedance microphone for TR4C and T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-21 13:44:01 UTC
From: Garey Barrell
Topic: 3503 Message: 3504

Daniel -

The problem is not just an impedance mis-match, it's a matter of signal level. Low Z mics are typically low level output, while Hi Z mics are much higher output. So the step-up transformer is just to step up the voltage produced by the low Z Heil mic.

The Astatic D-104 with the amplifier base is an exception. The cartridge is high output, Hi Z, and is its frequency response is very susceptible to impedance loading. The amplifier provides a proper, matched load for the cartridge, and puts out enough _voltage_ to drive _either_ a Hi - or - Lo Z transmitter.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> Greetings,
>
> I understand the high input-impedance of the tube microphone circut, and am wondering if anyone has tried to use a microphone like Heil's Fin or GM series, either directly or with a step-up transformer. or, are the levels such that you need to drive the transmitter with a higher level source from a pre-amp.
>
> before I launch into this venture, it might behoove me to ask if anyone else has attempted same, and hear of their observations. I would love to be able to use the HC-5 in my Heil ProSet Plus, without any additional circuitry involved, but I suspect the levels are insufficient to drive fully. it seems to me that even though the microphone is 600 ohms, the mismatch shouldn't be an issue into a high-impedance load.
>
> just thoughts ... any observations?
>
> NF7Z, daniel
>
>

3505. Re: File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-21 21:09:40 UTC
From: ab4cz
Topic: 206 Message: 3505

maybe you mean "exponentially"? Logarithmically would mean it gets easier as you progress. A log scale is compressed, an exponential scale is expanded.

jim
ab4cz

--- In DrakeRadio@yahoogroups.com, "jb" <xjjb4x4@...> wrote:
>
> Hi Ivan,
> Yeah, the study level increases logrithmically for the Extra, unless maybe your career involved some of this stuff. I feel your pain. =) But I kind of like it. Got to be something wrong with us. Just wish I had more time to invest. Lots of great stuff on here. Browse thru the archives here as well.
>
> Welcome
>
> God bless
> 73
> jb
> kb6biw
>
> --- In DrakeRadio@yahoogroups.com, "Ivan Shapiro \(KB1STH\)" <KB1STH@> wrote:
> >
> > Thanks for your kind words.
> >
> > 73
> >
> > Now .I want those frequencies allocated to extra class licensees.
> >
> > The jump from general to extra is a huge quantum leap, compared to my
> > initial testing which was tech and general.
> >
> > There are brand new concepts, foreign to this new ham. Will do my best when
> > I get my head around them.
> >
> > Study study study
> >
> > Ivan
> >
> > KB1STH
> >
> >
> >
> > From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of Richard Knoppow
> > Sent: Monday, April 05, 2010 1:18 AM

> > To: DrakeRadio@yahoogroups.com
> > Subject: Re: [DrakeRadio] File - Bi-Weekly Statement
> >
> >
> >
> >
> >
> >
> > ----- Original Message -----
> > From: "Ivan Shapiro (KB1STH)" <KB1STH@
> > <mailto:KB1STH%40ivanshapiro.com> >
> > To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
> > Sent: Sunday, April 04, 2010 2:40 PM
> > Subject: RE: [DrakeRadio] File - Bi-Weekly Statement
> >
> > And BTW, welcome to the amateur radio fraternity (Also
> > a sorority) and congratulations on getting your license. I
> > something of an old timer but had a lapse of many years
> > between beginning and getting back to it. Managed to get an
> > extra-class and my original call back.
> >
> > --
> > Richard Knoppow
> > Los Angeles
> > WB6KBL
> > dickburk@ <mailto:dickburk%40ix.netcom.com>
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

3506. TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-22 11:23:05 UTC
From: MIke
Topic: 3506 Message: 3506

I am having trouble getting my TR7 to transmit on 12, I wouldn't think it would be the swr's, as my other rig transmits on the same antenna & MN 2700 matching network.

Any hints?
Thanks,
Mike, WD5CCW

3507. Re: File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-22 17:42:27 UTC
From: jb
Topic: 206 Message: 3507

Oops...Absolutely! Wished what I said was actually true. That's what happens when you're at work and try to throw something out there real quick with your mind on something else.

Ha! It sounded like someone trying to get the euphanisms right in a foreign language (images of Ziva on NCIS). Math IS like a foreign language. It certainly felt like one when I got to calculus. ...getting a headache just thinking about it. =)

Goe bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "ab4cz" <AB4CZ@...> wrote:
>
> maybe you mean "exponentially"? Logarithmically would mean it gets easier as you progress. A log scale is compressed, an exponential scale is expanded.
>
> jim
> ab4cz
>
>
>
> --- In DrakeRadio@yahoogroups.com, "jb" <xjjb4x4@> wrote:
> >
> > Hi Ivan,
> > Yeah, the study level increases logrithmically for the Extra, unless maybe your career involved some of this stuff. I feel your pain. =) But I kind of like it. Got to be something wrong with us. Just wish I had more time to invest. Lots of great stuff on here. Browse thru the archives here as well.
> >
> > Welcome
> >
> > God bless
> > 73
> > jb
> > kb6biw
> >
> > --- In DrakeRadio@yahoogroups.com, "Ivan Shapiro \(KB1STH\)" <KB1STH@> wrote:
> > >
> > > Thanks for your kind words.
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> > > 73
> > >
> > > Now .I want those frequencies allocated to extra class licensees.
> > >
> > > The jump from general to extra is a huge quantum leap, compared to my

> > > initial testing which was tech and general.
> > >
> > > There are brand new concepts, foreign to this new ham. Will do my best when
> > > I get my head around them.
> > >
> > > Study study study
> > >
> > > Ivan
> > >
> > > KB1STH
> > >
> > >
> > >

3508. Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-22 23:31:25 UTC
From: Joe
Topic: 3508 Message: 3508

.....a reasonably priced L4B.

Preferably in N. California or N. Nevada.

The $850.00 tag advertised on QRZ is a bit rediculous..one can buy a well modified Heathkit SB220 amp for a lot less. And it is self contained!

I just want a legal limit amp to match my B Line.

Thanks in advance.

Joe Wolfe
WA6RKN
Reno, Nevada

3509. Re: [DrakeRadio] Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 01:38:54 UTC
From: Garey Barrell
Topic: 3508 Message: 3509

There are several reasons the Drake sells for more than a "well
modified" SB-220.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> .....a reasonably priced L4B.
>
> Preferably in N. California or N. Nevada.
>
> The $850.00 tag advertised on QRZ is a bit rediculous..one can buy a well
> modified Heathkit SB220 amp for a lot less. And it is self contained!
>
> I just want a legal limit amp to match my B Line.
>
> Thanks in advance.
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
>

3510. Re: [DrakeRadio] TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 01:48:53 UTC
From: Jim Shorney
Topic: 3506 Message: 3510

On Thu, 22 Apr 2010 11:23:05 -0000, MIke wrote:

>I am having trouble getting my TR7 to transmit on 12, I wouldn't think it would be the swr's, as my other rig transmits on the same antenna & MN 2700 matching network.
>
>Any hints?

Not without a little more information. What does the radio tell you when you try to transmit? What is your actual SWR (singular, SWRs - with no apostrophe - would mean more than one Standing Wave Ratio)? Does the wattmeter on the radio register anything in Forward or Reflected? Does it transmit normally into a dummy load? Does it transmit normally (into a dummy load) on other 500 KHz segments in the same band range? How are you getting to 12 Meters, do you have an AUX 7 or do you have the "allband transmit" mod? Does the radio receive normally on 12 Meters? Do all the other band segments TX into a dummy load OK?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3511. Re: [DrakeRadio] Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 01:49:52 UTC
From: Jim Shorney
Topic: 3508 Message: 3511

On Thu, 22 Apr 2010 21:38:54 -0400, Garey Barrell wrote:

>
>There are several reasons the Drake sells for more than a "well
>modified" SB-220.

One being maybe that it needs no mods? :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3512. RE: [DrakeRadio] Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 01:52:16 UTC
From: Jim Chaggaris
Topic: 3508 Message: 3512

Gary,

Exactly right!

Also, the price of $850 for a nice condition and working L4B to me is a reasonable price and pretty much the going rate (+/- $100-$200 depending on condition). I paid $850 for my low mileage L4B (5 hours use then stored in a closet) and don't regret it one bit.

YMMV

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Thursday, April 22, 2010 8:39 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Looking For.....

There are several reasons the Drake sells for more than a "well
modified" SB-220.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> .....a reasonably priced L4B.
>
> Preferably in N. California or N. Nevada.
>
> The $850.00 tag advertised on QRZ is a bit rediculous..one can buy a well
> modified Heathkit SB220 amp for a lot less. And it is self contained!
>
> I just want a legal limit amp to match my B Line.
>
> Thanks in advance.
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
>

[Non-text portions of this message have been removed]

3513. RE: [DrakeRadio] Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 02:04:53 UTC
From: Jim Shorney
Topic: 3508 Message: 3513

On Thu, 22 Apr 2010 20:52:16 -0500, Jim Chaggaris wrote:

>Also, the price of $850 for a nice condition and working L4B to me is a
>reasonable price and pretty much the going rate (+/- $100-$200 depending on
>condition). I paid $850 for my low mileage L4B (5 hours use then stored in
>a closet) and don't regret it one bit.

It does pay to shop around, though. I picked up a nice one that just needed cleanup a few years back from a local here for $450. Tubes turned out to be in good shape, and it puts out more than my L-7.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3514. Re: [DrakeRadio] Looking For.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 04:18:52 UTC
From: Joe
Topic: 3508 Message: 3514

OK...OKAY!! So I am shopping around....AS I said, my interest is a matching amplifier for my B line. And, as I am basically a cheap busturd, I don't want to pay very much for one...so there!

So now that you all have given me the proper amount of needling..I am still looking for a reasonably priced L4B.

I could go for a $450.00 barn find...err...closet find. (I keep getting my hobbies mixed up..restoring old cars and ham radio..both are things to keep pouring copious amounts of money into...and again, and again, and ag.....)

Remember....N. California or N. Nevada would be nice!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: RE: [DrakeRadio] Looking For.....

> It does pay to shop around, though. I picked up a nice one that just
> needed
> cleanup a few years back from a local here for $450. Tubes turned out to
> be in
> good shape, and it puts out more than my L-7.

3515. Re: low-impedance microphone for TR4C and T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 20:12:55 UTC
From: wileyclarkson
Topic: 3503 Message: 3515

I have a Gregore headset/boom mic that is a low z output on my T-4xc. Gregore solves the drive problem by installing a photo battery inside the headset with a switch. The additional voltage brings the drive level up enough to work fairly well with both my Drake and a Kenwood TS-520s. THey used to sell a small amplifier for their headset for hi-z but have gone to the battery with their mc element instead. I don't know if that will work with your heil or not. I also have an amplified D-104 I use on my Drake.

Wiley
WC5WC (ex-WA5OTR)

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Daniel -
>
> The problem is not just an impedance mis-match, it's a matter of signal
> level. Low Z mics are typically low level output, while Hi Z mics are
> much higher output. So the step-up transformer is just to step up the
> voltage produced by the low Z Heil mic.
>
> The Astatic D-104 with the amplifier base is an exception. The
> cartridge is high output, Hi Z, and is its frequency response is very
> susceptible to impedance loading. The amplifier provides a proper,
> matched load for the cartridge, and puts out enough _voltage_ to
> drive _either_ a Hi - or - Lo Z transmitter.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> arsnf7z wrote:
> > Greetings,
> >
> > I understand the high input-impedance of the tube microphone circut, and am wondering if anyone has tried to use a microphone like Heil's Fin or GM series, either directly or with a step-up transformer. or, are the levels such that you need to drive the transmitter with a higher level source from a pre-amp.
> >
> > before I launch into this venture, it might behoove me to ask if anyone else has attempted same, and hear of their observations. I would love to be able to use the HC-5 in my Heil ProSet Plus, without any additional circuitry involved, but I suspect the levels are insufficient to drive fully. it seems to me that even though the microphone is 600 ohms, the mismatch shouldn't be an issue into a high-impedance load.

> >
> > just thoughts ... any observations?
> >
> > NF7Z, daniel
> >
> >
>

3516. Drake TR-5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 22:53:08 UTC
From: kc2mru
Topic: 3516 Message: 3516

Hi Everyone ,
I recently got a very nice Drake TR-5 . Of course , they're not always the easiest radio to find any information about on the internet . I removed the cover to see if it had any filters in it , and being that I don't know a real lot about this particular radio ... I saw something that brought up a question for me . It appears to have some Crystals missing : Slots 1 , 6 , 8 , 9 , & 11 are empty , and I have no idea if it's suppose to have them or not ... or what's suppose to be in those slots . When I put the Band Selector on 30m , 17m , 15m and the lower half of 10m , the frequency jumps all over the place like it has no way of locating those frequencies .

So needless to say , I decided to place a post on here in hopes that somebody might know a little more about the TR-5's than I do .

Thanks & 73,
Del

3517. RE: [DrakeRadio] Drake TR-5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 23:10:40 UTC
From: Keith R. Erickson
Topic: 3516 Message: 3517

Need to order xtals for 160 and WARC bands

Have a TR-5

73

K0GNW

Keith

Wayzata, MN

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of kc2mru
Sent: Friday, April 23, 2010 5:53 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake TR-5

Hi Everyone ,
I recently got a very nice Drake TR-5 . Of course , they're not always the easiest radio to find any information about on the internet . I removed the cover to see if it had any filters in it , and being that I don't know a real lot about this particular radio ... I saw something that brought up a question for me . It appears to have some Crystals missing : Slots 1 , 6 , 8 , 9 , & 11 are empty , and I have no idea if it's suppose to have them or not ... or what's suppose to be in those slots . When I put the Band Selector on 30m , 17m , 15m and the lower half of 10m , the frequency jumps all over the place like it has no way of locating those frequencies .

So needless to say , I decided to place a post on here in hopes that somebody might know a little more about the TR-5's than I do .

Thanks & 73,
Del

[Non-text portions of this message have been removed]

3518. Re: Drake TR-5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-23 23:15:13 UTC
From: kc2mru
Topic: 3516 Message: 3518

Hi Keith ,
I figured as much , I just thought I'd ask ... just in case I was wrong . Is there a place online that I can order them from ??

Thanks & 73,
Del

--- In DrakeRadio@yahoogroups.com, "Keith R. Erickson" <kognw@...> wrote:
>
> Need to order xtals for 160 and WARC bands
>
>
>
> Have a TR-5
>
>
>
> 73
>
>
>
> K0GNW
>
> Keith
>
> Wayzata, MN
>
>
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of kc2mru
> Sent: Friday, April 23, 2010 5:53 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Drake TR-5
>
>
>
>
>
>
> Hi Everyone ,
> I recently got a very nice Drake TR-5 . Of course , they're not always the
> easiest radio to find any information about on the internet . I removed the
> cover to see if it had any filters in it , and being that I don't know a

> real lot about this particular radio ... I saw something that brought up a
> question for me . It appears to have some Crystals missing : Slots 1 , 6 , 8
> , 9 , & 11 are empty , and I have no idea if it's suppose to have them or
> not ... or what's suppose to be in those slots . When I put the Band
> Selector on 30m , 17m , 15m and the lower half of 10m , the frequency jumps
> all over the place like it has no way of locating those frequencies .
>
> So needless to say , I decided to place a post on here in hopes that
> somebody might know a little more about the TR-5's than I do .
>
> Thanks & 73,
> Del
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3519. RE: [DrakeRadio] Re: Drake TR-5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-24 00:45:52 UTC
From: Keith R. Erickson
Topic: 3516 Message: 3519

Try International Crystal or Sentry.

Maybe Bill Frost might have access to some.

Keith

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of kc2mru
Sent: Friday, April 23, 2010 6:15 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake TR-5

Hi Keith ,
I figured as much , I just thought I'd ask ... just in case I was wrong . Is there a place online that I can order them from ??

Thanks & 73,
Del

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "Keith R. Erickson" <kognw@...> wrote:
>
> Need to order xtals for 160 and WARC bands
>
>
>
> Have a TR-5
>
>
>
> 73
>
>
>
> K0GNW
>
> Keith
>
> Wayzata, MN
>
>
>
>
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]

On
> Behalf Of kc2mru
> Sent: Friday, April 23, 2010 5:53 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] Drake TR-5
>
>
>
>
>
> Hi Everyone ,
> I recently got a very nice Drake TR-5 . Of course , they're not always the
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> cover to see if it had any filters in it , and being that I don't know a
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> , 9 , & 11 are empty , and I have no idea if it's suppose to have them or
> not ... or what's suppose to be in those slots . When I put the Band
> Selector on 30m , 17m , 15m and the lower half of 10m , the frequency
jumps
> all over the place like it has no way of locating those frequencies .
>
> So needless to say , I decided to place a post on here in hopes that
> somebody might know a little more about the TR-5's than I do .
>
> Thanks & 73,
> Del
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

3520. RE: [DrakeRadio] Re: Drake TR-5

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-24 02:48:59 UTC
From: Bill Frost
Topic: 3516 Message: 3520

Hello,

Sorry, I don't have a stock of TR-5 crystals. I think the best bet would be International or one of the other crystal manufacturers.

73, Bill wd8dfp

--- On Fri, 4/23/10, Keith R. Erickson <kognw@...> wrote:

> From: Keith R. Erickson <kognw@...>
> Subject: RE: [DrakeRadio] Re: Drake TR-5
> To: DrakeRadio@yahoogroups.com
> Date: Friday, April 23, 2010, 8:45 PM
> Try International Crystal or Sentry.
>
>
>
> Maybe Bill Frost might have access to some.
>
>
>
> Keith
>
>
>
> From: DrakeRadio@yahoogroups.com
> [mailto:DrakeRadio@yahoogroups.com]
> On
> Behalf Of kc2mru
> Sent: Friday, April 23, 2010 6:15 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Re: Drake TR-5
>
>
>
>
>
> Hi Keith ,
> I figured as much , I just thought I'd ask ... just in case
> I was wrong . Is
> there a place online that I can order them from ??
>
> Thanks & 73,
> Del
>
> --- In DrakeRadio@yahoogroups.com

> <mailto:DrakeRadio%40yahoogroups.com> ,
> "Keith R. Erickson" <kognw@...> wrote:
> >
> > Need to order xtals for 160 and WARC bands
> >
> >
> >
> > Have a TR-5
> >
> >
> >
> > 73
> >
> >
> >
> > K0GNW
> >
> > Keith
> >
> > Wayzata, MN
> >
> >
> >
> >
> >
> > From: DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>]
> On
> > Behalf Of kc2mru
> > Sent: Friday, April 23, 2010 5:53 PM
> > To: DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>
> > Subject: [DrakeRadio] Drake TR-5
> >
> >
> >
> >
> >
> > Hi Everyone ,
> > I recently got a very nice Drake TR-5 . Of course ,
> they're not always the
> > easiest radio to find any information about on the
> internet . I removed
> the
> > cover to see if it had any filters in it , and being
> that I don't know a
> > real lot about this particular radio ... I saw
> something that brought up a

> > question for me . It appears to have some Crystals
> missing : Slots 1 , 6 ,
> 8
> > , 9 , & 11 are empty , and I have no idea if it's
> suppose to have them or
> > not ... or what's suppose to be in those slots . When
> I put the Band
> > Selector on 30m , 17m , 15m and the lower half of 10m
> , the frequency
> jumps
> > all over the place like it has no way of locating
> those frequencies .
> >
> > So needless to say , I decided to place a post on here
> in hopes that
> > somebody might know a little more about the TR-5's
> than I do .
> >
> > Thanks & 73,
> > Del
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

3521. Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-24 21:16:09 UTC
From: MIke
Topic: 3506 Message: 3521

Ok, Jim! Let me take it in order:
No movement of the meter on transmit, but does receive. I do have the allband transmit mod in place, so on that band, I am at a stand still.

And after the rainstorm we had, 10 meter is doing the same. All other bands are ok! So this has to be isolated to the 28.5 switch I would guess!

Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Thu, 22 Apr 2010 11:23:05 -0000, MIke wrote:
>
> >I am having trouble getting my TR7 to transmit on 12, I wouldn't think it would be the swr's, as my other rig transmits on the same antenna & MN 2700 matching network.
> >
> >Any hints?
>
> Not without a little more information. What does the radio tell you when you
> try to transmit? What is your actual SWR (singular, SWRs - with no apostrophe -
> would mean more than one Standing Wave Ratio)? Does the wattmeter on the radio
> register anything in Forward or Reflected? Does it transmit normally into a
> dummy load? Does it transmit normally (into a dummy load) on other 500 KHz
> segments in the same band range? How are you getting to 12 Meters, do you have
> an AUX 7 or do you have the "allband transmit" mod? Does the radio receive
> normally on 12 Meters? Do all the other band segments TX into a dummy load OK?
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3522. Drake TR-5 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-24 21:30:45 UTC
From: kc2mru
Topic: 3522 Message: 3522

I just recently got this rig and before I got it ... the man I got it from said it was not receiving well on 20M (although the "S" meter did not appear to be working) but not on the other bands. He couldn't transmit and hear himself on his adjacent radio on 20M but the Drake showed no output power on his Bird 43. A frequency counter showed the radio to be about 400 hertz off on 20M .

He seemed to believe that the PS-75 might be weak , and that was what was causing the radio to preform like this . I have no history on the radio , and with a radio like this ... I'm not real comfortable poking around without knowing what work might have been done to it previously.

So does anyone here have any ideas ??

3523. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-24 23:55:27 UTC
From: Jim Shorney
Topic: 3506 Message: 3523

OK, that's a good start. If the entire 22-30 band segment is affected, you could have a dirty bandswitch in the lowpass filter section, or a fault in the lowpass filter for 22-30.

I presume you have a service manual. If not, there are free versions available on the internet for download that are usable, although not the highest quality. Google will turn them up, but mods.dk is a good place to look for starters.

73

-Jim

On Sat, 24 Apr 2010 21:16:09 -0000, MIke wrote:

>Ok, Jim! Let me take it in order:
>No movement of the meter on transmit, but does receive. I do have the allband transmit mod in place, so on that band, I am at a stand still.
>
>And after the rainstorm we had, 10 meter is doing the same. All other bands are ok! So this has to be isolated to the 28.5 switch I would guess!

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3524. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 02:29:43 UTC
From: Richard Knoppow
Topic: 3506 Message: 3524

```
----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 24, 2010 4:55 PM
Subject: Re: [DrakeRadio] Re: TR7 Transmit power

>
> OK, that's a good start. If the entire 22-30 band segment
> is affected, you
> could have a dirty bandswitch in the lowpass filter
> section, or a fault in the
> lowpass filter for 22-30.
>
> I presume you have a service manual. If not, there are
> free versions available
> on the internet for download that are usable, although not
> the highest quality.
> Google will turn them up, but mods.dk is a good place to
> look for starters.
>
> 73
>
> -Jim

I thought I would check up on this site to see what is
there. They sure make you jump though hoops to subscribe and
then access is very limited unless you "donate".

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

3525. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 03:55:09 UTC
From: Jim Shorney
Topic: 3506 Message: 3525

On Sat, 24 Apr 2010 19:29:43 -0700, Richard Knoppow wrote:

>I thought I would check up on this site to see what is
>there. They sure make you jump though hoops to subscribe and
>then access is very limited unless you "donate".

I've found it other places as well, but I don't have specifics. If you can't find one, I could send you one or both of the variants that I have if your email accepts large attachments (6 or 7 megs).

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3526. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 04:26:19 UTC
From: Richard Knoppow
Topic: 3506 Message: 3526

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 24, 2010 8:55 PM
Subject: Re: [DrakeRadio] Re: TR7 Transmit power

> On Sat, 24 Apr 2010 19:29:43 -0700, Richard Knoppow wrote:
>
>>I thought I would check up on this site to see what is
>>there. They sure make you jump though hoops to subscribe
>>and
>>then access is very limited unless you "donate".
>
>
> I've found it other places as well, but I don't have
> specifics. If you can't
> find one, I could send you one or both of the variants
> that I have if your
> email accepts large attachments (6 or 7 megs).
>
> 73
>
> -Jim

It was another fellow who wanted the documentation, I
just commented on the site. Nevertheless its a generous
offer and I thank you for it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3527. L4B Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 04:31:25 UTC
From: Joe
Topic: 3527 Message: 3527

How hard is it to find a power supply for an L4B amplifier? I ask, as I am sure, everyone has seen the L4B being sold on eBay...but with no P/S. If they can be had, what can one expect to pay for one...ball park of course.

Still looking for the whole shooting match...Send 'em my way if you know of anyone selling....

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

3528. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 05:19:08 UTC
From: Jim Shorney
Topic: 3506 Message: 3528

On Sat, 24 Apr 2010 21:26:19 -0700, Richard Knoppow wrote:

>It was another fellow who wanted the documentation

That's what I get for not paying attention....

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3529. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 15:49:02 UTC
From: Garey Barrell
Topic: 3506 Message: 3529

Mike -

For only a little more than ModsDK charges, you can get a GOOD, CLEAR CD
with the Service manual for $10 from WB3CEZ.

The photos are clear, not just black blobs, and the schematics are each
one sheet. It prints out just as well if you take it to a FedEx Office
and have them print the schematics on a large format printer.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> OK, that's a good start. If the entire 22-30 band segment is affected, you
> could have a dirty bandswitch in the lowpass filter section, or a fault in the
> lowpass filter for 22-30.
>
> I presume you have a service manual. If not, there are free versions available
> on the internet for download that are usable, although not the highest quality.
> Google will turn them up, but mods.dk is a good place to look for starters.
>
> 73
>
> -Jim
>
> On Sat, 24 Apr 2010 21:16:09 -0000, MIke wrote:
>
>
>> Ok, Jim! Let me take it in order:
>> No movement of the meter on transmit, but does receive. I do have the allband transmit
mod in place, so on that band, I am at a stand still.
>>
>> And after the rainstorm we had, 10 meter is doing the same. All other bands are ok! So
this has to be isolated to the 28.5 switch I would guess!
>>
>

3530. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 16:18:33 UTC
From: Jim Shorney
Topic: 3506 Message: 3530

On Sun, 25 Apr 2010 11:49:02 -0400, Garey Barrell wrote:

>For only a little more than ModsDK charges, you can get a GOOD, CLEAR CD
>with the Service manual for $10 from WB3CEZ.

FWIW, you can "donate" to mods.dk by sending him a good picture of something he doesn't have. You don't get a full year of access from what I recall, but you get enough time to snarf a lot of stuff. I have several pieces of gear "in reserve" to photograph if I have an urgent need.

FWIW, the Hamanuals Drake CD has a very good copy of the service manual as well, with a hyperlinked index to make it easy to find things. This one was the first, I believe, as I purchased it some years ago. It covers most Drake equipment, not just the TR-7. He is under the radar for some reason, most people don't seem to be aware of this resource.
http://www.hamanuals.com/Products.html

There is also an ebay seller that offers a very good manual repro in print or PDF format. I bought one of the print manuals a few years back and forgot that I had it! He has since began offering it in PDF as well.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3531. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 17:37:01 UTC
From: Richard Knoppow
Topic: 3506 Message: 3531

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, April 25, 2010 8:49 AM
Subject: Re: [DrakeRadio] Re: TR7 Transmit power

> Mike -
>
> For only a little more than ModsDK charges, you can get a
> GOOD, CLEAR CD
> with the Service manual for $10 from WB3CEZ.
>
> The photos are clear, not just black blobs, and the
> schematics are each
> one sheet. It prints out just as well if you take it to a
> FedEx Office
> and have them print the schematics on a large format
> printer.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

I strongly recommend having the schematic printed out large. I did that for the ones in Garey's CD, I think I got something like 18"x24" or whatever the nearest standard size to that is. Mine were done at Kinko's but any of the office supply/printer places can do it. I also had the manuals printed out and spiral bound. Its all pretty cheap to do. I find Drake schematics hard to follow, the large size makes life a lot easier.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3532. Re: [DrakeRadio] Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 18:30:05 UTC
From: Garey Barrell
Topic: 3506 Message: 3532

Jim Shorney wrote:
> On Sun, 25 Apr 2010 11:49:02 -0400, Garey Barrell wrote:
>
>
>> For only a little more than ModsDK charges, you can get a GOOD, CLEAR CD
>> with the Service manual for $10 from WB3CEZ.
>>
> FWIW, you can "donate" to mods.dk by sending him a good picture of something he
> doesn't have. You don't get a full year of access from what I recall, but you
> get enough time to snarf a lot of stuff. I have several pieces of gear "in
> reserve" to photograph if I have an urgent need.
>

Yes, although it's getting hard to find something he doesn't have! :-)

It's only $7 I think for 3 months, so certainly well worth it. Most of
the manuals are pretty good.

> FWIW, the Hamanuals Drake CD has a very good copy of the service manual as
> well, with a hyperlinked index to make it easy to find things.
> http://www.hamanuals.com/Products.html
>

I had forgotten about that one. I copied both CDs to my hard drive.
The TR-7 Service manual is very well done, although he apparently didn't
"descreen" the photos, so they change quite a bit as you enlarge them.
All in all, a good choice. But if all you want is the TR-7, you can buy
a "real" original paper one for less than $80.

> There is also an ebay seller that offers a very good manual repro in print or
> PDF format. I bought one of the print manuals a few years back and forgot that
> I had it! He has since began offering it in PDF as well.
>

That may have been WB3CEZ. I think he used to offer printed, but it was
expensive to ship. Probably cheaper to take to FedEx Office and let
them print and bind it for what it costs to ship.

Another good one is from KE9PQ at
<http://auctionworks.com/StoreFrontProfiles/default.aspx?sfid=86409>.

He has a paper version for $20 that is also excellent quality.

73, Garey - K4OAH
Glen Allen, VA

3533. Re: [DrakeRadio] L4B Power Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-25 21:20:23 UTC
From: amfone
Topic: 3527 Message: 3533

About $400.00 to $500.00 for the L7 or L4B supply, they are the same.

Tim
wb8uhz

From: Joe <WA6RKN@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, April 25, 2010 12:31:25 AM
Subject: [DrakeRadio] L4B Power Supply

How hard is it to find a power supply for an L4B amplifier? I ask, as I am sure, everyone has seen the L4B being sold on eBay...but with no P/S. If they can be had, what can one expect to pay for one...ball park of course.

Still looking for the whole shooting match...Send 'em my way if you know of anyone selling....

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

3534. Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 17:59:46 UTC
From: Richard Knoppow
Topic: 3534 Message: 3534

Drake along with Collins and probably others use a small diameter RTS connector for the microphone. It has been suggested that this is to prevent damaging microphones by accidently connecting to the headphone output. Since my T4-XB has been modified with a standard 1/4" RTS connector I've given this some thought. I think the actual reason must be something else. The microphone is connected between the ring and sleeve, the tip being used for push-to-talk switching. So, assuming both have the same size connector, if a microphone is connected to a headphone jack it will not see anything because the ring will not be connected. It _is_ possible that headphones _might_ be damaged by being connected to some transmitters where there is sufficient current in the PTT circuit. In the Drake T4 the PTT is very high impedance and I think its unlikely that enough current could flow to cause any problems although the headphones would probably key the transmitter.
I think the real reason for the two different connectors may be an attempt at preventing errors in operating aircraft radios because interchanging the microphone and headphones would effectively disable communications. Aircraft have all sorts of safety precautions to make operation as fool-proof as possible and this may be one.
Another possibility is that the use of different connectors is to prevent problems from shorting the DC supply to carbon microphones. While these must be quite rare now the use of the small connector dates from a time when they were common. A standard headphone plug might short the mic supply to ground through the sleeve. Its possible, but not very likely, that such a short could damage the primary winding of the mic transformer, pretty much a necessity for a carbon microphone.
There may be a definite answer buried somewhere in the literature, these are just some random thoughts.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3535. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 18:11:52 UTC
From: Rotten Robbie
Topic: 3534 Message: 3535

When I was in the USAF the headsets had PL-54/JK-26 connectors for the phones and a 2 pin connector for the mic. No way to screw up!

But I have not looked at an ART-13/BC-348 system in 50 years so I don't remember them.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 10:59 AM
Subject: [DrakeRadio] Small vs standard mic connector

> Drake along with Collins and probably others use a
> small diameter RTS connector for the microphone. It has been
> suggested that this is to prevent damaging microphones by
> accidently connecting to the headphone output. Since my
> T4-XB has been modified with a standard 1/4" RTS connector
> I've given this some thought. I think the actual reason must
> be something else. The microphone is connected between the
> ring and sleeve, the tip being used for push-to-talk
> switching. So, assuming both have the same size connector,
> if a microphone is connected to a headphone jack it will not
> see anything because the ring will not be connected. It _is_
> possible that headphones _might_ be damaged by being
> connected to some transmitters where there is sufficient
> current in the PTT circuit. In the Drake T4 the PTT is very
> high impedance and I think its unlikely that enough current
> could flow to cause any problems although the headphones
> would probably key the transmitter.
> I think the real reason for the two different
> connectors may be an attempt at preventing errors in
> operating aircraft radios because interchanging the
> microphone and headphones would effectively disable
> communications. Aircraft have all sorts of safety
> precautions to make operation as fool-proof as possible and
> this may be one.
> Another possibility is that the use of different
> connectors is to prevent problems from shorting the DC
> supply to carbon microphones. While these must be quite rare
> now the use of the small connector dates from a time when
> they were common. A standard headphone plug might short the
> mic supply to ground through the sleeve. Its possible, but

> not very likely, that such a short could damage the primary
> winding of the mic transformer, pretty much a necessity for
> a carbon microphone.
> There may be a definite answer buried somewhere in the
> literature, these are just some random thoughts.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3536. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 18:26:28 UTC
From: Garey Barrell
Topic: 3534 Message: 3536

Richard -

I believe you are correct in your deductions.... Most Avionics
equipment uses the different connector sizes, as does quite a bit of
more recent military gear. (Post WW-II)

Certainly there is potential for damage in certain cases, along with
keying the transmitter "accidently", but probably not many.

However, I suspect plugging a D-104 with a crystal element into the
audio output could quite likely damage the mic, probably before you
could turn down the gain. There are many other very expensive mics that
could be damaged in the same way. Yes, it would be harder to do if the
sizes were reversed, but the 1/4" jack and plug for audio output have
been around for 100 years or so and would be quite a conversion program!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> Drake along with Collins and probably others use a
> small diameter RTS connector for the microphone. It has been
> suggested that this is to prevent damaging microphones by
> accidently connecting to the headphone output. Since my
> T4-XB has been modified with a standard 1/4" RTS connector
> I've given this some thought. I think the actual reason must
> be something else. The microphone is connected between the
> ring and sleeve, the tip being used for push-to-talk
> switching. So, assuming both have the same size connector,
> if a microphone is connected to a headphone jack it will not
> see anything because the ring will not be connected. It _is_
> possible that headphones _might_ be damaged by being
> connected to some transmitters where there is sufficient
> current in the PTT circuit. In the Drake T4 the PTT is very
> high impedance and I think its unlikely that enough current
> could flow to cause any problems although the headphones
> would probably key the transmitter.
> I think the real reason for the two different
> connectors may be an attempt at preventing errors in
> operating aircraft radios because interchanging the
> microphone and headphones would effectively disable
> communications. Aircraft have all sorts of safety
> precautions to make operation as fool-proof as possible and

> this may be one.
> Another possibility is that the use of different
> connectors is to prevent problems from shorting the DC
> supply to carbon microphones. While these must be quite rare
> now the use of the small connector dates from a time when
> they were common. A standard headphone plug might short the
> mic supply to ground through the sleeve. Its possible, but
> not very likely, that such a short could damage the primary
> winding of the mic transformer, pretty much a necessity for
> a carbon microphone.
> There may be a definite answer buried somewhere in the
> literature, these are just some random thoughts.
>
>

3537. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 19:31:12 UTC
From: Richard Knoppow
Topic: 3534 Message: 3537

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 11:26 AM
Subject: Re: [DrakeRadio] Small vs standard mic connector

> Richard -
>
> I believe you are correct in your deductions.... Most
> Avionics
> equipment uses the different connector sizes, as does
> quite a bit of
> more recent military gear. (Post WW-II)
>
> Certainly there is potential for damage in certain cases,
> along with
> keying the transmitter "accidently", but probably not
> many.
>
> However, I suspect plugging a D-104 with a crystal element
> into the
> audio output could quite likely damage the mic, probably
> before you
> could turn down the gain. There are many other very
> expensive mics that
> could be damaged in the same way. Yes, it would be harder
> to do if the
> sizes were reversed, but the 1/4" jack and plug for audio
> output have
> been around for 100 years or so and would be quite a
> conversion program!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
Well, the point is that no audio would get to the mic
because its connected to the ring rather than the tip of the
plug. When an RTS plug is put into a tip-sleeve jack the
ring is not connected to anything. If a two conductor plug
is put into an RTS jack the ring contact in the jack is
usually grounded to the sleeve of the plug.
I am not sure how vulnerable the elements of crystal
mics are. Certainly crystal elements can be fractured by
over driving with an input voltage, my memory is that this
was a problem with crystal disc cutting heads so its quite

possible that a mic could be damaged this way. There are crystal headphones. Mostly they were made by Brush. The problem is that the crystals tend to become degraded with time and, eventually, they stop working. Rochelle salt crystals are vulnerable to moisture and high temperature. While most crystal elements were pretty well sealed they still do not seem to have survived well; its rare to find working crystal mics and phonograph pickups and Brush headphones. Brush headphones, BTW, are completely glued together so one can not even open them. A curiousity; they are marked on the outside that the patent notice is inside. You _can't_ get inside!

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3538. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:06:23 UTC
From: Rotten Robbie
Topic: 3534 Message: 3538

FWIW:
The ART-13 transmitter uses a 1/4" plug for the mic. The tip is the audio
and the ring is the T/R switch.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 12:31 PM
Subject: Re: [DrakeRadio] Small vs standard mic connector

>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, April 26, 2010 11:26 AM
> Subject: Re: [DrakeRadio] Small vs standard mic connector
>
>
>> Richard -
>>
>> I believe you are correct in your deductions.... Most
>> Avionics
>> equipment uses the different connector sizes, as does
>> quite a bit of
>> more recent military gear. (Post WW-II)
>>
>> Certainly there is potential for damage in certain cases,
>> along with
>> keying the transmitter "accidently", but probably not
>> many.
>>
>> However, I suspect plugging a D-104 with a crystal element
>> into the
>> audio output could quite likely damage the mic, probably
>> before you
>> could turn down the gain. There are many other very
>> expensive mics that
>> could be damaged in the same way. Yes, it would be harder
>> to do if the
>> sizes were reversed, but the 1/4" jack and plug for audio
>> output have

>> been around for 100 years or so and would be quite a
>> conversion program!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
> Well, the point is that no audio would get to the mic
> because its connected to the ring rather than the tip of the
> plug. When an RTS plug is put into a tip-sleeve jack the
> ring is not connected to anything. If a two conductor plug
> is put into an RTS jack the ring contact in the jack is
> usually grounded to the sleeve of the plug.
> I am not sure how vulnerable the elements of crystal
> mics are. Certainly crystal elements can be fractured by
> over driving with an input voltage, my memory is that this
> was a problem with crystal disc cutting heads so its quite
> possible that a mic could be damaged this way. There are
> crystal headphones. Mostly they were made by Brush. The
> problem is that the crystals tend to become degraded with
> time and, eventually, they stop working. Rochelle salt
> crystals are vulnerable to moisture and high temperature.
> While most crystal elements were pretty well sealed they
> still do not seem to have survived well; its rare to find
> working crystal mics and phonograph pickups and Brush
> headphones. Brush headphones, BTW, are completely glued
> together so one can not even open them. A curiousity; they
> are marked on the outside that the patent notice is inside.
> You _can't_ get inside!
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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3539. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:14:48 UTC
From: Garey Barrell
Topic: 3534 Message: 3539

Uh-oh. So the mic element hits the PTT voltage as it's inserted. And somehow, I doubt that the PTT of the ART-13 is "low current" and/or "low voltage"!

73, Garey - K4OAH
Glen Allen, VA

Rotten Robbie wrote:
> FWIW:
> The ART-13 transmitter uses a 1/4" plug for the mic. The tip is the audio
> and the ring is the T/R switch.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: "Richard Knoppow"<1oldlens1@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Monday, April 26, 2010 12:31 PM
> Subject: Re: [DrakeRadio] Small vs standard mic connector
>
>
>
>> ----- Original Message -----
>> From: "Garey Barrell"<k4oah@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Monday, April 26, 2010 11:26 AM
>> Subject: Re: [DrakeRadio] Small vs standard mic connector
>>
>>
>>
>>> Richard -
>>>
>>> I believe you are correct in your deductions.... Most
>>> Avionics
>>> equipment uses the different connector sizes, as does
>>> quite a bit of
>>> more recent military gear. (Post WW-II)
>>>
>>> Certainly there is potential for damage in certain cases,
>>> along with
>>> keying the transmitter "accidently", but probably not
>>> many.
>>>

>>> However, I suspect plugging a D-104 with a crystal element
>>> into the
>>> audio output could quite likely damage the mic, probably
>>> before you
>>> could turn down the gain. There are many other very
>>> expensive mics that
>>> could be damaged in the same way. Yes, it would be harder
>>> to do if the
>>> sizes were reversed, but the 1/4" jack and plug for audio
>>> output have
>>> been around for 100 years or so and would be quite a
>>> conversion program!
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>>
>> Well, the point is that no audio would get to the mic
>> because its connected to the ring rather than the tip of the
>> plug. When an RTS plug is put into a tip-sleeve jack the
>> ring is not connected to anything. If a two conductor plug
>> is put into an RTS jack the ring contact in the jack is
>> usually grounded to the sleeve of the plug.
>> I am not sure how vulnerable the elements of crystal
>> mics are. Certainly crystal elements can be fractured by
>> over driving with an input voltage, my memory is that this
>> was a problem with crystal disc cutting heads so its quite
>> possible that a mic could be damaged this way. There are
>> crystal headphones. Mostly they were made by Brush. The
>> problem is that the crystals tend to become degraded with
>> time and, eventually, they stop working. Rochelle salt
>> crystals are vulnerable to moisture and high temperature.
>> While most crystal elements were pretty well sealed they
>> still do not seem to have survived well; its rare to find
>> working crystal mics and phonograph pickups and Brush
>> headphones. Brush headphones, BTW, are completely glued
>> together so one can not even open them. A curiousity; they
>> are marked on the outside that the patent notice is inside.
>> You _can't_ get inside!
>

3540. Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:19:22 UTC
From: Garey Barrell
Topic: 3534 Message: 3540

Is anybody else getting bounce messages from Drakelist? For the last couple of days everything I send gets a "Permanent Failure" message.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3541. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:30:06 UTC
From: Rotten Robbie
Topic: 3534 Message: 3541

The ART-13 is designed to use either a carbon mic(T-17) or a dynamic mic. I guess the dynamic mic can take the current.

The ART-13 has a switch to determine what type of mic is being used.

I just checked this out because the ART-13 was a Collins transmitter.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 1:14 PM
Subject: Re: [DrakeRadio] Small vs standard mic connector

> Uh-oh. So the mic element hits the PTT voltage as it's inserted. And
> somehow, I doubt that the PTT of the ART-13 is "low current" and/or "low
> voltage"!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
> Rotten Robbie wrote:
>> FWIW:
>> The ART-13 transmitter uses a 1/4" plug for the mic. The tip is the audio
>> and the ring is the T/R switch.
>>
>> Bob Macklin
>> K5MYJ
>> Seattle, Wa.
>> "Real Radios Glow In The Dark"
>> ----- Original Message -----
>> From: "Richard Knoppow"<1oldlens1@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Monday, April 26, 2010 12:31 PM
>> Subject: Re: [DrakeRadio] Small vs standard mic connector
>>
>>
>>
>>> ----- Original Message -----
>>> From: "Garey Barrell"<k4oah@...>
>>> To:<DrakeRadio@yahoogroups.com>

>>> Sent: Monday, April 26, 2010 11:26 AM
>>> Subject: Re: [DrakeRadio] Small vs standard mic connector
>>>
>>>
>>>
>>>> Richard -
>>>>
>>>> I believe you are correct in your deductions.... Most
>>>> Avionics
>>>> equipment uses the different connector sizes, as does
>>>> quite a bit of
>>>> more recent military gear. (Post WW-II)
>>>>
>>>> Certainly there is potential for damage in certain cases,
>>>> along with
>>>> keying the transmitter "accidently", but probably not
>>>> many.
>>>>
>>>> However, I suspect plugging a D-104 with a crystal element
>>>> into the
>>>> audio output could quite likely damage the mic, probably
>>>> before you
>>>> could turn down the gain. There are many other very
>>>> expensive mics that
>>>> could be damaged in the same way. Yes, it would be harder
>>>> to do if the
>>>> sizes were reversed, but the 1/4" jack and plug for audio
>>>> output have
>>>> been around for 100 years or so and would be quite a
>>>> conversion program!
>>>>
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>>
>>> Well, the point is that no audio would get to the mic
>>> because its connected to the ring rather than the tip of the
>>> plug. When an RTS plug is put into a tip-sleeve jack the
>>> ring is not connected to anything. If a two conductor plug
>>> is put into an RTS jack the ring contact in the jack is
>>> usually grounded to the sleeve of the plug.
>>> I am not sure how vulnerable the elements of crystal
>>> mics are. Certainly crystal elements can be fractured by
>>> over driving with an input voltage, my memory is that this
>>> was a problem with crystal disc cutting heads so its quite
>>> possible that a mic could be damaged this way. There are
>>> crystal headphones. Mostly they were made by Brush. The
>>> problem is that the crystals tend to become degraded with
>>> time and, eventually, they stop working. Rochelle salt
>>> crystals are vulnerable to moisture and high temperature.

>>> While most crystal elements were pretty well sealed they
>>> still do not seem to have survived well; its rare to find
>>> working crystal mics and phonograph pickups and Brush
>>> headphones. Brush headphones, BTW, are completely glued
>>> together so one can not even open them. A curiousity; they
>>> are marked on the outside that the patent notice is inside.
>>> You _can't_ get inside!
>>
>
>
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>
> Yahoo! Groups Links
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>

3542. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:31:23 UTC
From: LEE BAHR
Topic: 3534 Message: 3542

Test for bounce.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 26, 2010 3:19 PM
Subject: [DrakeRadio] Drakelist Problem??

Is anybody else getting bounce messages from Drakelist? For the last
couple of days everything I send gets a "Permanent Failure" message.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

3543. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:32:13 UTC
From: LEE BAHR
Topic: 3534 Message: 3543

Went through for me, Garey.

Lee, w0vt

----- Original Message -----
From: LEE BAHR
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 26, 2010 3:31 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

Test for bounce.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 26, 2010 3:19 PM
Subject: [DrakeRadio] Drakelist Problem??

Is anybody else getting bounce messages from Drakelist? For the last
couple of days everything I send gets a "Permanent Failure" message.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

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[Non-text portions of this message have been removed]

3544. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:45:43 UTC
From: Garey Barrell
Topic: 3534 Message: 3544

Lee -

Thanks, but I was complaining about the "Drakelist" @ zerobeat.net. It tends to get in "moods" sometimes, and just wondering if it's just me, or ...

DrakeRadio is working fine.

73, Garey - K4OAH
Glen Allen, VA

LEE BAHR wrote:
> Test for bounce.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Garey Barrell
>
>
>
> Is anybody else getting bounce messages from Drakelist? For the last
> couple of days everything I send gets a "Permanent Failure" message.
>
>
>

3545. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 22:11:18 UTC
From: Richard Knoppow
Topic: 3534 Message: 3545

----- Original Message -----
From: "Rotten Robbie" <rottenrobbie0@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 1:30 PM
Subject: Re: [DrakeRadio] Small vs standard mic connector

> The ART-13 is designed to use either a carbon mic(T-17) or
> a dynamic mic. I
> guess the dynamic mic can take the current.
>
> The ART-13 has a switch to determine what type of mic is
> being used.
>
> I just checked this out because the ART-13 was a Collins
> transmitter.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, April 26, 2010 1:14 PM
> Subject: Re: [DrakeRadio] Small vs standard mic connector
>
>
>> Uh-oh. So the mic element hits the PTT voltage as it's
>> inserted. And
>> somehow, I doubt that the PTT of the ART-13 is "low
>> current" and/or "low
>> voltage"!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA

If the connector is the old phone company TRS and not a
modern "stereo" type the center pin will not contact the
ring contact because it is considerably smaller in diameter.
BTW pushing a stereo plug into a standard telco type TRS
connector may bend the contacts too much resulsing in
eventual failure. The telco type TRS are standard for
broadcast patchbay use.
Carbon mics may have supplies running anywere from
about 1.5V to around 6V. Less is better but the whole reason

for using carbon mics is that they are _amplifiers_ and have very high output compared to generator type microphones. The amount of amplification depends on the voltage across the mic. However, excessive voltage can cause overheating and fusing of the granuals and even arcing. Most applications have a fairly high resistance in series with the mic supply to limit the current.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3546. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 22:16:23 UTC
From: Richard Knoppow
Topic: 3534 Message: 3546

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 1:45 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

> Lee -
>
> Thanks, but I was complaining about the "Drakelist" @
> zerobeat.net. It
> tends to get in "moods" sometimes, and just wondering if
> it's just me,
> or ...
>
> DrakeRadio is working fine.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
I am subscribed but have not posted to it recently. Is
it possible you used an alternative address that it does not
recognize? I can make a test posting if you like.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3547. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 20:36:05 UTC
From: Dave And Merrijoy
Topic: 3534 Message: 3547

The very BEST for a TEST.
Dave w9ocm

----- Original Message -----
From: LEE BAHR
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 26, 2010 4:31 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

Test for bounce.

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 26, 2010 3:19 PM
Subject: [DrakeRadio] Drakelist Problem??

Is anybody else getting bounce messages from Drakelist? For the last
couple of days everything I send gets a "Permanent Failure" message.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3548. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 23:36:00 UTC
From: Garey Barrell
Topic: 3534 Message: 3548

Dave -

Again, thanks, but I'm referring to the "Drakelist@...", not
"DrakeRadio@...".

This one seems to be working fine! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Dave And Merrijoy wrote:
> The very BEST for a TEST.
> Dave w9ocm
>
> ----- Original Message -----
> From: LEE BAHR
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, April 26, 2010 4:31 PM
> Subject: Re: [DrakeRadio] Drakelist Problem??
>
>
>
> Test for bounce.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, April 26, 2010 3:19 PM
> Subject: [DrakeRadio] Drakelist Problem??
>
> Is anybody else getting bounce messages from Drakelist? For the last
> couple of days everything I send gets a "Permanent Failure" message.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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3549. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-26 23:52:34 UTC
From: Richard Knoppow
Topic: 3534 Message: 3549

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 4:36 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

> Dave -
>
> Again, thanks, but I'm referring to the
> "Drakelist@...", not
> "DrakeRadio@...".
>
FWIW there is a post of yours from today (Monday, 26 April) there referring to a T4XC output. I can send a test message if you are still having problems.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3550. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 00:20:00 UTC
From: Jim Shorney
Topic: 3534 Message: 3550

On Mon, 26 Apr 2010 10:59:46 -0700, Richard Knoppow wrote:

>I think the real reason for the two different
>connectors may be an attempt at preventing errors in
>operating aircraft radios because interchanging the
>microphone and headphones would effectively disable
>communications.

I am somewhat amused by the thought that I built an adapter box with a .205
jack on it to adapt an aircraft headset to my TR-7.

WOrks great, BTW.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3551. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 00:23:17 UTC
From: Rotten Robbie
Topic: 3534 Message: 3551

What kind of mic connector did the aircraft headset have? Was it a military headset?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 5:20 PM
Subject: Re: [DrakeRadio] Small vs standard mic connector

> On Mon, 26 Apr 2010 10:59:46 -0700, Richard Knoppow wrote:
>
>>I think the real reason for the two different
>>connectors may be an attempt at preventing errors in
>>operating aircraft radios because interchanging the
>>microphone and headphones would effectively disable
>>communications.
>
>
> I am somewhat amused by the thought that I built an adapter box with a
> .205
> jack on it to adapt an aircraft headset to my TR-7.
>
> WOrks great, BTW.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and
> he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney

> http://www.nebraskaghosts.org
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>
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> Yahoo! Groups Links
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3552. Re: [DrakeRadio] Small vs standard mic connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 01:04:53 UTC
From: Jim Shorney
Topic: 3534 Message: 3552

The three conductor .205", a.k.a PJ-068, that is the standard mic plug on the tube Drakes, which Richard was discussing. This is a Telex Airman 500 ANR headset for commercial aviation.

Anyone who has worked K0KKV on Field Day the past couple of years has heard it on the air (and will again this year).

On Mon, 26 Apr 2010 17:23:17 -0700, Rotten Robbie wrote:

>What kind of mic connector did the aircraft headset have? Was it a military
>headset?
>
>Bob Macklin
>K5MYJ
>Seattle, Wa.
>"Real Radios Glow In The Dark"

>----- Original Message -----
>From: "Jim Shorney" <jshorney@...>
>To: <DrakeRadio@yahoogroups.com>
>Sent: Monday, April 26, 2010 5:20 PM
>Subject: Re: [DrakeRadio] Small vs standard mic connector
>
>
>> On Mon, 26 Apr 2010 10:59:46 -0700, Richard Knoppow wrote:
>>
>>>I think the real reason for the two different
>>>connectors may be an attempt at preventing errors in
>>>operating aircraft radios because interchanging the
>>>microphone and headphones would effectively disable
>>>communications.
>>
>>
>> I am somewhat amused by the thought that I built an adapter box with a
>> .205
>> jack on it to adapt an aircraft headset to my TR-7.
>>
>> WOrks great, BTW.
>>
>> 73
>>
>> -Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.

TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3553. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 02:47:52 UTC
From: Garey Barrell
Topic: 3534 Message: 3553

Richard -

Very interesting..... I sent several replies over the last two days, and none of them "came back". I got a "Permanent Error" on each one saying that the message was refused and a "550 Authentication required" error. It just occurred to me to look at the Archives, and some of them actually got through TO the server, but still didn't make it back to me.

This reflector has these "fits" sometimes, so I guess I'll just wait it out. So far at least, when this has happened in the past it HAS eventually "recovered".

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Monday, April 26, 2010 4:36 PM
> Subject: Re: [DrakeRadio] Drakelist Problem??
>
>
>
>> Dave -
>>
>> Again, thanks, but I'm referring to the
>> "Drakelist@...", not
>> "DrakeRadio@...".
>>
>>
> FWIW there is a post of yours from today (Monday, 26
> April) there referring to a T4XC output. I can send a test
> message if you are still having problems.
>
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

>
>
>

3554. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 03:20:33 UTC
From: Richard Knoppow
Topic: 3534 Message: 3554

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 7:47 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

> Richard -
>
> Very interesting..... I sent several replies over the
> last two days,
> and none of them "came back". I got a "Permanent Error"
> on each one
> saying that the message was refused and a "550
> Authentication required"
> error. It just occurred to me to look at the Archives,
> and some of them
> actually got through TO the server, but still didn't make
> it back to me.
>
> This reflector has these "fits" sometimes, so I guess I'll
> just wait it
> out. So far at least, when this has happened in the past
> it HAS
> eventually "recovered".
>
> 73, Garey - K4OAH
> Glen Allen, VA

Beyond me but at least some of your posts seem to be
getting to the list.
I have a strange problem with mailing lists which are
on my dickburk address, which has a spam blocker on it. The
blocker puts all my posts into its "suspect" e-mail folder
but doesn't send me challenge messages. I have to move them
manually. This is evidently a bug in the software Earthlink
uses for its spam blocker and others have complained about
it but nothing has been done. Note that it does not stop
other posts from the same lists, just mine! The oldlens
account, which I use for the two Drake lists does not have
the tight spam blocker turned on (just "known spam") so
everything comes back normally. I don't use the oldlens
account on Usenet or the web, just a few friends have it and
a couple of mailing lists that won't accept address with
blockers so I don't get spam (yet).
BTW I also have an account at ARRL which reflects to

the oldlens account: WB6KBL@... Since its not
independent I am not sure what of what use it is.
At the moment I am listening to W1AW send code practice
on 20M. Steady as a rock. I have been working on my code
since I was about twelve. Faster than I used to be but not
up to where I want. I think it takes steady practice. I can
recognize some words and occasional phrases up to about 40
wpm but can't read reliably beyond about 20. I have the Koch
Trainer on this machine at work but there I listen to the
W1AW stuff off the web. An old friend, now dead, who was a
wireless pioneer told me about one of his friends who was a
commercial op. This fellow could take down high speed Morse
and talk to you at the same time. The code must of gone
right to his fingers, I doubt if he knew what he was
copying. I almost remember his name, I think he worked in
San Francisco for either RCA or MRT. My friend started with
the Robert Dollar line and Federal Radio and Telegraph and
eventually worked for Heintz & Kaufmann and later for Eimac.
He thought the world of Bill Eitel and thought Jack
McCollough was a first class bastard.
Anyway enough.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3555. Re: [DrakeRadio] Drakelist Problem??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-27 04:43:23 UTC
From: Richard Knoppow
Topic: 3534 Message: 3555

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 26, 2010 8:20 PM
Subject: Re: [DrakeRadio] Drakelist Problem??

Pardon me, this was supposed to be a personal post to
Garey. Because the e-mail filters route everything with
certain headers into the list folders its hard to tell which
are personal and which are list. In any case, this was all
personal stuff and should not have gone to the list.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3556. Re: TR7 Transmit power

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 00:02:23 UTC
From: MIke
Topic: 3506 Message: 3556

I do have the manual, so it looks like a good project in on the horizon. Thanks for the help!
Mike, WD5CCW
--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
>
> OK, that's a good start. If the entire 22-30 band segment is affected, you
> could have a dirty bandswitch in the lowpass filter section, or a fault in the
> lowpass filter for 22-30.
>
> I presume you have a service manual. If not, there are free versions available
> on the internet for download that are usable, although not the highest quality.
> Google will turn them up, but mods.dk is a good place to look for starters.
>
> 73
>
> -Jim
>
> On Sat, 24 Apr 2010 21:16:09 -0000, MIke wrote:
>
> >Ok, Jim! Let me take it in order:
> >No movement of the meter on transmit, but does receive. I do have the allband transmit mod in place, so on that band, I am at a stand still.
> >
> >And after the rainstorm we had, 10 meter is doing the same. All other bands are ok! So this has to be isolated to the 28.5 switch I would guess!
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3557. FS Drake SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 00:09:40 UTC
From: Saad Mahaini
Topic: 3506 Message: 3557

Hello, I have a real nice Drake SPR-4 that i decided to sell or trade. It's in excellent, original non modified condition. No flaws, no scratches, no dents, sparkling clean no corrosion chassis, super nice and works perfectly. Comes in the standard configuration with no additional options or extra rocks. $350 plus shipping and trades will be considered. I have a matching MS-4 speaker that i will offer the buyer for an additional $50 or will sell separately for $75 after the receiver sells. This is very well cared for receiver and its hard to find one in such condition. 73 Saad N5FF

[Non-text portions of this message have been removed]

3558. TR 7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 00:44:01 UTC
From: Lorne Barber
Topic: 3558 Message: 3558

Some time ago I ran across someone selling a blue LED readout for the TR7.
Can someone on the list please stear me in the right direction?
7 3
Lorne
ve7box

3559. Re: [DrakeRadio] TR 7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 00:51:06 UTC
From: Craig Roberts
Topic: 3558 Message: 3559

Lorne Barber wrote:
>
>
> Some time ago I ran across someone selling a blue LED readout for the
> TR7....
>
That would be Don Buska -- nice guy -- good products -- attractive
prices -- quick shipping.
http://www.radiolabworks.com/products/tr7lamp/d7lamp.html

73,

Craig
W3CRR

[Non-text portions of this message have been removed]

3560. Re: [DrakeRadio] TR 7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 00:58:28 UTC
From: Lorne Barber
Topic: 3558 Message: 3560

Thanks Craig, that is the one.
7 3
Lorne
ve7box

3561. Re: [DrakeRadio] TR 7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 01:02:04 UTC
From: Jim Shorney
Topic: 3558 Message: 3561

Willi, DF4NW:

http://www.df4nw.de/

I've got a blue readout in my TR-7 and it looks seriously freakin' cool.

73

-Jim

On Tue, 27 Apr 2010 17:44:01 -0700, Lorne Barber wrote:

>
>Some time ago I ran across someone selling a blue LED readout for the TR7.
>Can someone on the list please stear me in the right direction?
>7 3
>Lorne
>ve7box

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3562. Re: [DrakeRadio] TR 7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-28 01:05:45 UTC
From: Jim Shorney
Topic: 3558 Message: 3562

If you mean LED lamps, that is one of several. If you mean LED readout, DF4NW
is the only one.

On Tue, 27 Apr 2010 17:58:28 -0700, Lorne Barber wrote:

>Thanks Craig, that is the one.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3563. FS: Drake C-Line (T-4XC, R-4C, MS-4, AC-4) Free Delivery to Dayton Hamvention

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-29 04:16:26 UTC
From: mecograph
Topic: 3563 Message: 3563

Hi Everyone!

Free Delivery to 2010 Dayton Hamvention!

I'll be traveling from St. Louis, MO to Dayton Hamvention along I-70 and can deliver at no charge anywhere along that route or to the Hamvention itself.

I can't keep all the radios so I've decided to sell my Drake C-Line.

Included are the following.

* T-4XC transmitter with original (not a copy) Drake manual. Serial No. 21532.
* R-4C receiver with original (not a copy) Drake manual. Serial No. 18028. Receiver has the followng accessory filters: 6KHz AM, 500hz CW, and 250hz CW Filter. Also installed is a 39.1 accessory crystal for 28.0 - 28.5Mhz.
* AC-4 Power Supply for the T-4XC. Serial No. 42944
* MS-4 Speaker for the R-4C.

All the interconnecting cables (all are original Drake except for one). Price for all items as a package is $750.00 not including shipping or take advantage of free delivery to Dayton.

Here are photos:

http://www.mindspring.com/~vibroplex/drake_c_line.html

73,

Derek
WB0TUA

3564. FS: Drake C-Line (T-4XC, R-4C, MS-4, AC-4) Free Delivery to Dayton Hamvention

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-29 04:16:45 UTC
From: mecograph
Topic: 3563 Message: 3564

Hi Everyone!

Free Delivery to 2010 Dayton Hamvention!

I'll be traveling from St. Louis, MO to Dayton Hamvention along I-70 and can deliver at no charge anywhere along that route or to the Hamvention itself.

I can't keep all the radios so I've decided to sell my Drake C-Line.

Included are the following.

* T-4XC transmitter with original (not a copy) Drake manual. Serial No. 21532.
* R-4C receiver with original (not a copy) Drake manual. Serial No. 18028. Receiver has the followng accessory filters: 6KHz AM, 500hz CW, and 250hz CW Filter. Also installed is a 39.1 accessory crystal for 28.0 - 28.5Mhz.
* AC-4 Power Supply for the T-4XC. Serial No. 42944
* MS-4 Speaker for the R-4C.

All the interconnecting cables (all are original Drake except for one). Price for all items as a package is $750.00 not including shipping or take advantage of free delivery to Dayton.

Here are photos:

http://www.mindspring.com/~vibroplex/drake_c_line.html

73,

Derek
WB0TUA

3565. Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-29 15:22:31 UTC
From: Garey Barrell
Topic: 3565 Message: 3565

I regret that I am consistently unable to access the Drakelist @ zerobeat.net. This is the ONLY
list I have these problems with, out of 40 some lists I subscribe to.

So I give up and have moved to DrakeRadio@...

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

3566. RE: [DrakeRadio] Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-29 17:16:56 UTC
From: Terrell Hamilton
Topic: 3565 Message: 3566

40?????????? Lists? Whew!
I'll bet your eyes get tired.

Are all these radio or Drake
lists? Which are the best?

The world wants to know.
(grin)

73 -

Terry

K7WLD

Wenatchee, WA

From:
DrakeRadio@yahoogroups.com
[mailto:DrakeRadio@yahoogroups
.com] On Behalf Of Garey
Barrell
Sent: Thursday, April 29, 2010
8:23 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio]
Drakelist Failure

I regret that I am
consistently unable to access
the Drakelist @ zerobeat.net.
This is the ONLY
list I have these problems
with, out of 40 some lists I
subscribe to.

So I give up and have moved to
DrakeRadio@...
<mailto:DrakeRadio%40yahoo.com
>

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line &
TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

3567. Re: [DrakeRadio] Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-29 19:26:18 UTC
From: Garey Barrell
Topic: 3565 Message: 3567

Terry -

I just checked, and actually it's only 32 Yahoo groups, all but two are radio and/or electronics related. Add to that two QTH "mailman" groups and a couple of "forum" memberships and you're approaching 40.

This list (DrakeRadio) seems to have more traffic lately, probably because others are having the same problem with Drakelist. There have been two posts today, and I responded, copying the OP of course, but neither of my messages made it to the list. I guess I'll just make this list my "home" list.

Don't know what causes it, but every so often Drakelist (or something along the way) refuses my posts and sends me a bounce message. I'm sure this is pretty far down the list of things Thom has to do, so it's just the way it is. I haven't changed ISP, email address, or anything else for over 10 years, and whatever it is has "cleared up" after a week or so the other 5-6 times it's happened in the last year.

I'm just tired of fooling with it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Terrell Hamilton wrote:
> 40?????????? Lists? Whew!
> I'll bet your eyes get tired.
>
>
>
> Are all these radio or Drake
> lists? Which are the best?
>
>

3568. TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 01:28:12 UTC
From: yash@aol.com
Topic: 3568 Message: 3568

What is the purpose of the J2 jack, looks like a socket for a relay. something for a remote vfo ? is a jumper needed if no remote is used on the tr-3?
thanks
dale wt4t

[Non-text portions of this message have been removed]

3569. Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 01:33:31 UTC
From: Paul Kraemer
Topic: 3568 Message: 3569

Dale
It is for remote vfo.
I think the dummy plug is required.
I have one around here if you need connection data
Paul K0UYA
----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 29, 2010 8:28 PM
Subject: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

>
> What is the purpose of the J2 jack, looks like a socket for a relay.
> something for a remote vfo ? is a jumper needed if no remote is used on
> the tr-3?
> thanks
> dale wt4t
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
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>
> Yahoo! Groups Links
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>

3570. Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 01:42:47 UTC
From: Garey Barrell
Topic: 3568 Message: 3570

Dale -

Yes, it is for the Remote PTO, RV-3/4/4C. In the TR-3 ONLY, you need to jumper Pin 2 to Pin 8.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

yash@... wrote:
> What is the purpose of the J2 jack, looks like a socket for a relay. something for a remote vfo ? is a jumper needed if no remote is used on the tr-3?
> thanks
> dale wt4t
>
>
>

3571. Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 12:18:27 UTC
From: yash@aol.com
Topic: 3568 Message: 3571

Paul
Thanks ,the manual makes a quick referance to it but no many details ,guess will read it again.
dale wt4t

-----Original Message-----
From: Paul Kraemer <elespe@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, Apr 29, 2010 9:33 pm
Subject: Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

Dale
It is for remote vfo.
I think the dummy plug is required.
I have one around here if you need connection data
Paul K0UYA
----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 29, 2010 8:28 PM
Subject: [DrakeRadio] TR-3 J2 jack on bottom of chassis,

>
> What is the purpose of the J2 jack, looks like a socket for a relay.
> something for a remote vfo ? is a jumper needed if no remote is used on
> the tr-3?
> thanks
> dale wt4t
>
>
>
>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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>
>
>

[Non-text portions of this message have been removed]

3572. Re: Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 14:27:26 UTC
From: David & Chris Drake
Topic: 3565 Message: 3572

Garey,
I prefer the Yahoo groups over all the others. More convenient, reliable, and a bit more objective in comments rather than big egos.
Just my take.
David Drake
Wd9cmd

[Non-text portions of this message have been removed]

3573. Re: [DrakeRadio] Re: Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 14:36:33 UTC
From: Joe
Topic: 3565 Message: 3573

Sure...of course you would say that..all you DRAKE'S stick together!

LOL......

Doncha wish you were part of the Drake Radio company?!! (Or were you?)

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "David & Chris Drake" <drakes@...>
Subject: [DrakeRadio] Re: Drakelist Failure

> Garey,
> I prefer the Yahoo groups over all the others. More convenient, reliable,
> and a bit more objective in comments rather than big egos.
> Just my take.
> David Drake
> Wd9cmd

3574. Re: TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 15:14:31 UTC
From: w5rkl
Topic: 3568 Message: 3574

Pin 2 on the TR3's remote VFO 8 pin socket is connected to the TR3's VFO tube's cathode through the coil in T5.

Without the RV3 plugged into the remote VFO 8 pin socket, pin 2, the cathode of V2, must be grounded to pin 8 for the TR3's internal VFO to work.

When the RV3 is plugged into the TR3's remote VFO 8 pin socket and the RV3's Function switch is set to "OFF", pin 2 of the TR3's remote VFO socket is grounded. Placing the RV3's Function switch in other positions removes the ground on pin 2 except in the RV3's "RCV/XMT" Function switch position.

Bama has the RV4 schematic but not the RV3 manual or the schematic. However, mod.dk has the manual which includes the schematic.

http://www.mods.dk/manual.php?brand=drake

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, yash@... wrote:
>
>
> Paul
> Thanks ,the manual makes a quick referance to it but no many details ,guess will read it again.
> dale wt4t
>
>
>
>
>
>
> -----Original Message-----
> From: Paul Kraemer <elespe@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Thu, Apr 29, 2010 9:33 pm
> Subject: Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,
>
>
>
>
> Dale
> It is for remote vfo.
> I think the dummy plug is required.
> I have one around here if you need connection data

> Paul K0UYA
> ----- Original Message -----
> From: <yash@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, April 29, 2010 8:28 PM
> Subject: [DrakeRadio] TR-3 J2 jack on bottom of chassis,
>
> >
> > What is the purpose of the J2 jack, looks like a socket for a relay.
> > something for a remote vfo ? is a jumper needed if no remote is used on
> > the tr-3?
> > thanks
> > dale wt4t
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

3575. Re: TR-3 J2 jack on bottom of chassis,

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 15:20:11 UTC
From: w5rkl
Topic: 3568 Message: 3575

I said,

"Placing the RV3's Function switch in other positions removes the ground on pin 2 except in the RV3's "RCV/XMT" Function switch position."

that's incorrect! Sorry about that, I misread the schematic.

What happens with the RV3 Function switch set to "RCV/XMT", the cathode of the RV3's VFO tube is grounded and the ground on the TR3's internal VFO tube's cathode that is connected to pin 2 is removed. This allows the RV3 to provide both transmit and receive VFO signals to the TR3 over pin 6 in the 8 pin socket.

Sorry for the incorrect statement.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> Pin 2 on the TR3's remote VFO 8 pin socket is connected to the TR3's VFO tube's cathode through the coil in T5.
>
> Without the RV3 plugged into the remote VFO 8 pin socket, pin 2, the cathode of V2, must be grounded to pin 8 for the TR3's internal VFO to work.
>
> When the RV3 is plugged into the TR3's remote VFO 8 pin socket and the RV3's Function switch is set to "OFF", pin 2 of the TR3's remote VFO socket is grounded. Placing the RV3's Function switch in other positions removes the ground on pin 2 except in the RV3's "RCV/XMT" Function switch position.
>
> Bama has the RV4 schematic but not the RV3 manual or the schematic. However, mod.dk has the manual which includes the schematic.
>
> http://www.mods.dk/manual.php?brand=drake
>
> 73s
> Mike
> W5RKL
>
>
>
> --- In DrakeRadio@yahoogroups.com, yash@ wrote:
> >

> >
> > Paul
> > Thanks ,the manual makes a quick referance to it but no many details ,guess will read it again.
> > dale wt4t
> >
> >
> >
> >
> >
> >
> > -----Original Message-----
> > From: Paul Kraemer <elespe@>
> > To: DrakeRadio@yahoogroups.com
> > Sent: Thu, Apr 29, 2010 9:33 pm
> > Subject: Re: [DrakeRadio] TR-3 J2 jack on bottom of chassis,
> >
> >
> >
> >
> > Dale
> > It is for remote vfo.
> > I think the dummy plug is required.
> > I have one around here if you need connection data
> > Paul K0UYA
> > ----- Original Message -----
> > From: <yash@>
> > To: <DrakeRadio@yahoogroups.com>
> > Sent: Thursday, April 29, 2010 8:28 PM
> > Subject: [DrakeRadio] TR-3 J2 jack on bottom of chassis,
> >
> > >
> > > What is the purpose of the J2 jack, looks like a socket for a relay.
> > > something for a remote vfo ? is a jumper needed if no remote is used on
> > > the tr-3?
> > > thanks
> > > dale wt4t
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
> >
>

3576. Re: [DrakeRadio] Re: Drakelist Failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-04-30 17:25:24 UTC
From: Garey Barrell
Topic: 3565 Message: 3576

David -

Drakelist has always been pretty good about that. It works very well,
when it works.

I responded to something there last night, and it went through! Just
takes "fits" now and then.

Guess I'll just stick around here for a while and see what happens.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

David & Chris Drake wrote:
> Garey,
> I prefer the Yahoo groups over all the others. More convenient, reliable, and a bit more objective in comments rather than big egos.
> Just my take.
> David Drake
> Wd9cmd
>
>

3577. pto knob and skirt

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 15:02:47 UTC
From: yash@aol.com
Topic: 3577 Message: 3577

Have a nice tr-3 ,but has a mickey mouse pto knob and skirt. Looking for anything from the origional tr series knob and skirt, to a set ,off a set of wtins. Will consider all.
thanks
dale wt4t

[Non-text portions of this message have been removed]

3578. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 20:01:07 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3578

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3579. Drake R-4B aux crystal window

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 20:40:43 UTC
From: w4mjr
Topic: 3579 Message: 3579

I have been looking through the message history with no luck. What is the best way to mark the frequency inside the little small aux crystal window on the R-4B and do a neat job with it ?

3580. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 20:44:21 UTC
From: Dave And Merrijoy
Topic: 206 Message: 3580

Thanks Don,
I'm Dave w9ocm from Fairmount, IN (hometown of James Dean), with
nearly 50 years of hamming experience.
I do not currently own a Drake product but I joined this group in
hopes that I might find another TR-4 like I had before. (My wife keeps
asking me why I sell off the rigs I like - I don't have an answer.)
I've enjoyed the various topics for discussion that I've read here so far and am
looking forward to more.
The TR-4 that I owned a few years back had the smoothest VFO control
of any transceiver I have ever used.
I did some DX work with it and maybe again one day, eh?
One question - if I were to consider a Drake receiver, to match up with
a Ranger xmtr, what would be some recommendations? And why? Lots
of changes here at this QTH since Social Security became part of my life.
Have a fine afternoon.
Dave w9ocm

----- Original Message -----
From: DrakeRadio@yahoogroups.com
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 02, 2010 4:01 PM
Subject: [DrakeRadio] File - Bi-Weekly Statement

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

[Non-text portions of this message have been removed]

3581. Re: [DrakeRadio] Drake R-4B aux crystal window

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 21:34:33 UTC
From: Richard Knoppow
Topic: 3579 Message: 3581

----- Original Message -----
From: "w4mjr" <w4mjr@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, May 02, 2010 1:40 PM
Subject: [DrakeRadio] Drake R-4B aux crystal window

>I have been looking through the message history with no
>luck. What is the best way to mark the frequency inside the
>little small aux crystal window on the R-4B and do a neat
>job with it ?
>
I don't know the best way but I just tried this with a
"carbon" pencil. It works, makes a nice dark mark which
comes off with a standard eraser or window cleaner. The
particular pencil I used is a General's Carbo-Weld Black
Marker. I think a Wolf's Carbon Pencil, available at art
supply stores would also work. These pencils do not have a
sheen on the marks and are darker than normal writing
pencils, even very soft ones. I don't think a permanent
marker or decals should be used because you might want to
get the marks off again. I don't know what sort of plastic
is used for the dial. It stands up to window cleaner and
"Fantastic" but might not to some more powerful solvent.
That's why I would not use a "Sharpie" or similar marker on
it. Others may well have better ideas.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3582. Re: [DrakeRadio] Welcome

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 21:35:20 UTC
From: Garey Barrell
Topic: 206 Message: 3582

Hi Dave -

Welcome to the group. I used to hang out over on Drakelist, but for some reason every so often I am unable to post there. Pops up every month or so, and lasts for a "while". So I gave up. :-)

Don started this list about 5 years ago, and when he moved on to other interests he asked me to take ownership of the group.

I guess the first question would be do you intend to operate CW or AM with the Ranger/Drake combination? Should the answer be "CW Only", (my preference!,) the 2-B would be great, although it IS a little dwarfed by the Ranger. Any of the R-4/A/B would be a little better, adding 1 kHz dial calibration, crystal calibrator, and even transceive capability with the T-4X(any) transmitters.

The maximum IF bandwidth of the 2-B is 3.6 kHz, a little narrow for AM unless you want to use ECSS, which kind of begs the question of "why AM"! The 4 Series receivers have a 4.8 kHz bandwidth, which is a little better, but still kind of pinched for AM.

The R-4C has an 8 kHz "roofing" filter, and combined with a bypass for the optional AM (6 or 8 kHz) crystal filter does fairly well. Unfortunately, the R-4C audio leaves a little to be desired, which again begs that question.....

My personal opinion is that the R-4B is the epitome of Drake receivers for just day-to-day operating. It has the Passband Tuner L/C IF filters which I prefer over the crystal filters in the R-4C, unless you are trying to dig out a weak signal amidst a pile of 40 dB over S-9 signals. This used to be important, but nowadays the only time you find that kind of situation is trying to pull a DX station out from all the "policemen", or a Low Band contest.

The R-4B has smooth audio you can listen to all day without fatigue, thanks in part to the lack of steep crystal filter skirts, plus you can hear what's going on around your frequency, just at reduced levels.

On the other hand, it's hard to beat an HQ-129X, HQ-140X, NC-300 or 75A-2 for just good, solid AM! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Dave And Merrijoy wrote:
> Thanks Don,
> I'm Dave w9ocm from Fairmount, IN (hometown of James Dean), with
> nearly 50 years of hamming experience.
> I do not currently own a Drake product but I joined this group in
> hopes that I might find another TR-4 like I had before. (My wife keeps
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> I've enjoyed the various topics for discussion that I've read here so far and am
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> of any transceiver I have ever used.
> I did some DX work with it and maybe again one day, eh?
> One question - if I were to consider a Drake receiver, to match up with
> a Ranger xmtr, what would be some recommendations? And why? Lots
> of changes here at this QTH since Social Security became part of my life.
> Have a fine afternoon.
> Dave w9ocm
>
>
>

3583. RE: [DrakeRadio] Welcome

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 22:30:23 UTC
From: Bob Spooner
Topic: 206 Message: 3583

Garey,

You mentioned the 75A-2 for AM; I'm curious, but how would you compare the 75A-2 and 75A-3?

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Sunday, May 02, 2010 5:35 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Welcome

Hi Dave - .

On the other hand, it's hard to beat an HQ-129X, HQ-140X, NC-300 or 75A-2 for just good, solid AM! :-)

[Non-text portions of this message have been removed]

3584. Re: [DrakeRadio] Drake R-4B aux crystal window

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 22:37:24 UTC
From: Jim Shorney
Topic: 3579 Message: 3584

On Sun, 02 May 2010 20:40:43 -0000, w4mjr wrote:

>
>I have been looking through the message history with no luck. What is the best way to mark the frequency inside the little small aux crystal window on the R-4B and do a neat job with it ?

Black-on-clear P-Touch labels work well. You can pick your font size and trim them to fit, and they look good.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3585. Re: [DrakeRadio] Drake R-4B aux crystal window

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-02 23:36:28 UTC
From: Richard Knoppow
Topic: 3579 Message: 3585

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, May 02, 2010 3:37 PM
Subject: Re: [DrakeRadio] Drake R-4B aux crystal window

> On Sun, 02 May 2010 20:40:43 -0000, w4mjr wrote:
>
>>
>>I have been looking through the message history with no
>>luck. What is the best way to mark the frequency inside
>>the little small aux crystal window on the R-4B and do a
>>neat job with it ?
>
>
> Black-on-clear P-Touch labels work well. You can pick your
> font size and trim
> them to fit, and they look good.
>
> 73
>
> -Jim

I forgot about these although I use them at work. I
would be concerned with getting them off again if it was
desired. Do you find they peel off cleanly after being on
for a while?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3586. Re: [DrakeRadio] Drake R-4B aux crystal window

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 01:19:03 UTC
From: Jim Shorney
Topic: 3579 Message: 3586

On Sun, 2 May 2010 16:36:28 -0700, Richard Knoppow wrote:

>> Black-on-clear P-Touch labels work well.

>I forgot about these although I use them at work. I
>would be concerned with getting them off again if it was
>desired. Do you find they peel off cleanly after being on
>for a while?

Can't say, I haven't tried to take one off yet.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3587. Re: [DrakeRadio] Welcome

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 02:19:08 UTC
From: Garey Barrell
Topic: 206 Message: 3587

Hi Bob -

The 75A-3 has the mechanical filter, (3 kHz,) which to me makes it unsuitable for AM. A "real" AM signal needs at least 6 kHz to be worthwhile, if you're only going to listen to one sideband and restrict it at that, you may as well use SSB! :-) Even without the mechanical filter, the IF bandwidth of the A-3 is too narrow for good AM.

You just haven't heard AM until you hear it on one of the receivers I mentioned earlier.! Preferably with a 10" or larger speaker in a good case. There are other good AM receivers, just about any of the old Hammarlunds or Nationals, or even Hallicrafter's SX-99. The SX-100 was a little too narrow for great AM.

SSB is definitely superior for _communication_ , i.e., carrying information from one place to another, especially under crowded conditions, but "being in the room" with someone takes AM! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Bob Spooner wrote:
> Garey,
>
> You mentioned the 75A-2 for AM; I'm curious, but how would you compare
> the 75A-2 and 75A-3?
>
> 73,
> Bob AD3K
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell
> Sent: Sunday, May 02, 2010 5:35 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Welcome
>
>
> Hi Dave - .
>
>
> On the other hand, it's hard to beat an HQ-129X, HQ-140X, NC-300 or
> 75A-2 for just good, solid AM! :-)
>

>
>

3588. Re: [DrakeRadio] Welcome

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 03:48:55 UTC
From: Richard Knoppow
Topic: 206 Message: 3588

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, May 02, 2010 7:19 PM
Subject: Re: [DrakeRadio] Welcome

> Hi Bob -
>
> The 75A-3 has the mechanical filter, (3 kHz,) which to me
> makes it
> unsuitable for AM. A "real" AM signal needs at least 6
> kHz to be
> worthwhile, if you're only going to listen to one sideband
> and restrict
> it at that, you may as well use SSB! :-) Even without
> the mechanical
> filter, the IF bandwidth of the A-3 is too narrow for good
> AM.
>
> You just haven't heard AM until you hear it on one of the
> receivers I
> mentioned earlier.! Preferably with a 10" or larger
> speaker in a good
> case. There are other good AM receivers, just about any
> of the old
> Hammarlunds or Nationals, or even Hallicrafter's SX-99.
> The SX-100 was
> a little too narrow for great AM.
>
> SSB is definitely superior for _communication_ , i.e.,
> carrying
> information from one place to another, especially under
> crowded
> conditions, but "being in the room" with someone takes AM!
> :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
Best of all is an old Hammarlund Super-Pro. These have
a variable IF bandpass which is about 15 khz at maximum, a
low distortion detector and relatively high fidelity

push-pull audio. The IF transformers use a sliding coil arrangement to vary the coupling and thus the bandwidth. They also have an excellent crystal filter for CW and isolated AVC so that the BFO does not show up in the AVC. The later SP-600-JX also has a pretty wide maximum IF, about 13 khz. The audio amp is the usual single-ended job found in most communication receivers but there is a direct detector output which will amaze you when connected to a good audio system.
A few receivers have over coupled IFs that require tuning with a sweeper. The HQ-100/120/140 series have this arrangement as does the RCA-88A/C series. In fact, I think the Collins 75A has a similar arrangement. If just peaked the bandwidth is narrower but the skirt selectivty is lost. The bandwidth across a properly tuned IF is about 4.5 to 5 khz. Not exactly hi-fi for AM but enough. Also, the Hallicrafters SX-28 and SX-25 have variable IFs and push-pull audio but are not quite in the same class with the old Super-Pro.
I have a beef with AM radio broadcasting. Its _capable_ of quite high quality if not full high fidelity. In the bad old days stations tried to sound as good as possible, now they just want to sound loud. Modern transmitters are much better than the old ones were but the processors that feed them are just awful and no one in the business seems to realize that bad audio chases listeners away. You can always tell when sweeps week comes because all the AM stations crank everything up and sound even more awful than usual. Even a five tube wonder will sound pretty good when fed with a clean signal.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3589. FS: 2LF 160M converter for Drake 2B or 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 04:08:39 UTC
From: mecograph
Topic: 3589 Message: 3589

Hi Everyone,

I have a 2LF for the Drake 2B or 2A. I don't have either of those receivers so I can't test it. It is missing a crystal so you would need to buy one of those to make this work. Here are a few photos:

http://www.railroadmorse.com/2lf%20004.jpg

http://www.railroadmorse.com/2lf%20003.jpg

http://www.railroadmorse.com/2lf.jpg

Price is USD$75.00 plus shipping which should only be a few bucks because of the small size. I'll be coming to the Dayton Hamvention this year and I can bring it with me to save shipping expense if you like.

Thanks and 73,

Derek
WB0TUA

3590. Re: [DrakeRadio] FS: 2LF 160M converter for Drake 2B or 2A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 04:43:17 UTC
From: Lou W0TQ
Topic: 3589 Message: 3590

Derek

I'll buy it. I'm in Webster Groves so can pickup.

Lou W0TQ

On 5/2/2010 11:08 PM, mecograph wrote:
>
> Hi Everyone,
>
> I have a 2LF for the Drake 2B or 2A. I don't have either of those
> receivers so I can't test it. It is missing a crystal so you would
> need to buy one of those to make this work. Here are a few photos:
>
> http://www.railroadmorse.com/2lf%20004.jpg
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>
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> <http://www.railroadmorse.com/2lf%20003.jpg>
>
> http://www.railroadmorse.com/2lf.jpg
> <http://www.railroadmorse.com/2lf.jpg>
>
> Price is USD$75.00 plus shipping which should only be a few bucks
> because of the small size. I'll be coming to the Dayton Hamvention
> this year and I can bring it with me to save shipping expense if you like.
>
> Thanks and 73,
>
> Derek
> WB0TUA
>
>

[Non-text portions of this message have been removed]

3591. T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 15:32:35 UTC
From: jeu3pneu
Topic: 3591 Message: 3591

Hell to all
i have some spare time and always trying to repair my T4XC.
I was looking why there's a erratic difference between tune (100w)and cw mode(25w)... some time it is OK ...
was on 21 mhz and R25 on board2 blow.
Any idea why ?
Martin
Tnx for help
VE2EDK

3592. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 16:53:50 UTC
From: Garey Barrell
Topic: 3591 Message: 3592

Hi Martin -

The Drake 4 Line transmitters all require a higher GAIN setting for CW, sometimes over to 3 or 4 O'clock or almost full clockwise. It will be advanced further on the higher bands, and does vary from band to band. Very high settings are sometimes the result of weak tubes, especially V2-V4 and V5 and V6.

R25 blowing is a sign of a short on V2, Pin 5 (result of an internal short from Plate to Suppressor grid inside the tube), or sometimes a short INSIDE T2. Possibly a shorted C20, but that is way down the list of likely causes. I would first check the transformer lead that R25 connects to (with R25 OUT) to ground with an ohmmeter. IF very low resistance (or short), then remove V2 and recheck. If OK, the problem was a shorted tube. IF still shorted, it's probably inside T2.

If the tube is at fault, T2 may have been damaged (overheated) and will need to be replaced. If the short was on the "high" (R25) side of T2, the transformer is probably still ok. If on the "low" side (V2, Pin 5) T2 has probably been damaged.

Let us know what you find.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hell to all
> i have some spare time and always trying to repair my T4XC.
> I was looking why there's a erratic difference between tune (100w)and cw mode(25w)...
some time it is OK ...
> was on 21 mhz and R25 on board2 blow.
> Any idea why ?
> Martin
> Tnx for help
> VE2EDK
>
>
>

3593. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-03 22:17:21 UTC
From: Martin
Topic: 3591 Message: 3593

Tnx Gary for your answer,

The gain was full clockwise cw position. Always same erratic problem ... full output on tune and 25 watts on cw position.

Rapidly this afternoon i used radio agn and on tune position radio was right.

Further information later.

Agn very tnx for your help. I changed the dirver for a new one and finals seems ok. I will change other suggested tubes.

TNX tnx and best 73 Gary

Martin VE2EDK

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 3 mai 2010 12:54
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC R25 blow why?

Hi Martin -

The Drake 4 Line transmitters all require a higher GAIN setting for CW, sometimes over to 3 or 4 O'clock or almost full clockwise. It will be advanced further on the higher bands, and does vary from band to band. Very high settings are sometimes the result of weak tubes, especially V2-V4 and V5 and V6.

R25 blowing is a sign of a short on V2, Pin 5 (result of an internal short from Plate to Suppressor grid inside the tube), or sometimes a short INSIDE T2. Possibly a shorted C20, but that is way down the list of likely causes. I would first check the transformer lead that R25 connects to (with R25 OUT) to ground with an ohmmeter. IF very low resistance (or short), then remove V2 and recheck. If OK, the problem was a shorted tube. IF still shorted, it's probably inside T2.

If the tube is at fault, T2 may have been damaged (overheated) and will need to be replaced. If the short was on the "high" (R25) side of T2, the transformer is probably still ok. If on the "low" side (V2, Pin 5) T2 has probably been damaged.

Let us know what you find.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hell to all
> i have some spare time and always trying to repair my T4XC.
> I was looking why there's a erratic difference between tune (100w)and cw
mode(25w)... some time it is OK ...
> was on 21 mhz and R25 on board2 blow.
> Any idea why ?
> Martin
> Tnx for help
> VE2EDK
>
>
>

[Non-text portions of this message have been removed]

3594. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 01:34:50 UTC
From: Martin
Topic: 3591 Message: 3594

I made a mistake, to nite i checked agn the radio and NO output on CW or Tune position with R25 blow.

I checked OHM between Pin5 of V2 and R25 and there is 3 ohms. With or without V2.

I put a new resistance and new V2 and no output and no smoke !!!

I can try new V5 and V6.

I hope it can help.

Martin

[Non-text portions of this message have been removed]

3595. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 01:37:30 UTC
From: Martin
Topic: 3591 Message: 3595

I am wondering if T2 in a T4XB is the same as in T4XC.

I have a spare T4XB and TR4....

Tnx

Martin

[Non-text portions of this message have been removed]

3596. MS7 replacement speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 01:52:38 UTC
From: mfelack
Topic: 3596 Message: 3596

Hi Group!!!
I recently acquired an average quality MS7 from eBay that sounds terrible on my TR7 - like the speaker is "blown" - all distorted and scratchy. Do any of you Drake enthusiasts know of a suitable replacement (hopefully better than OEM version that it came with) to install in its place to make it functional again or perhaps even better than new? Also, does anyone know what the actual hole spacing is for the mounting screws?
TNX ES 73 DE MIKE WA3WOM K

3597. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 02:05:54 UTC
From: Garey Barrell
Topic: 3591 Message: 3597

Martin -

If R25 is blown, then there is a reason in the V2 stage. Most likely is
a shorted tube. I would be careful using it until you replace V2, as
damage to T2 is quite possible IF it is in fact the tube. Something is
drawing excessive current if R25 is blown!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Tnx Gary for your answer,
>
> The gain was full clockwise cw position. Always same erratic problem ...
> full output on tune and 25 watts on cw position.
>
> Rapidly this afternoon i used radio agn and on tune position radio was
> right.
>
> Further information later.
>
> Agn very tnx for your help. I changed the dirver for a new one and finals
> seems ok. I will change other suggested tubes.
>
> TNX tnx and best 73 Gary
>
> Martin VE2EDK
>
>
>
> De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
> part de Garey Barrell
> Envoy? : 3 mai 2010 12:54
> ? : DrakeRadio@yahoogroups.com
> Objet : Re: [DrakeRadio] T4XC R25 blow why?
>
>
>
>
>
> Hi Martin -
>
> The Drake 4 Line transmitters all require a higher GAIN setting for CW,

> sometimes over to 3 or 4 O'clock or almost full clockwise. It will be
> advanced further on the higher bands, and does vary from band to band.
> Very high settings are sometimes the result of weak tubes, especially
> V2-V4 and V5 and V6.
>
> R25 blowing is a sign of a short on V2, Pin 5 (result of an internal
> short from Plate to Suppressor grid inside the tube), or sometimes a
> short INSIDE T2. Possibly a shorted C20, but that is way down the list
> of likely causes. I would first check the transformer lead that R25
> connects to (with R25 OUT) to ground with an ohmmeter. IF very low
> resistance (or short), then remove V2 and recheck. If OK, the problem
> was a shorted tube. IF still shorted, it's probably inside T2.
>
> If the tube is at fault, T2 may have been damaged (overheated) and will
> need to be replaced. If the short was on the "high" (R25) side of T2,
> the transformer is probably still ok. If on the "low" side (V2, Pin 5)
> T2 has probably been damaged.
>
> Let us know what you find.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
>
>> Hell to all
>> i have some spare time and always trying to repair my T4XC.
>> I was looking why there's a erratic difference between tune (100w)and cw
>>
> mode(25w)... some time it is OK ...
>
>> was on 21 mhz and R25 on board2 blow.
>> Any idea why ?
>> Martin
>> Tnx for help
>> VE2EDK
>

3598. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 02:25:46 UTC
From: Garey Barrell
Topic: 3591 Message: 3598

Martin -

OK. Seems most likely that the old tube was shorted, Pin 5 to Pin 2.
It may or may not show with an ohmmeter check with the tube cold.

I can't say for certain, but I believe that the T2 is identical in both
the T-4XB and T-4XC. They both have the same internal cap, and the same
circuit topology. It tunes to 5.645 MHz in both units and the output
link matches to the same crystal filters.

When you get the old one out, open it up and inspect it for damage.

There is nothing in the TR-4 that would help, as it is an entirely
different IF.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> I am wondering if T2 in a T4XB is the same as in T4XC.
>
> I have a spare T4XB and TR4....
>
> Tnx
>
> Martin
>
>

3599. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 13:38:54 UTC
From: Martin B
Topic: 3591 Message: 3599

Hello Gary

just before leaving home this morning i used the T4XC.

New V2 and i have got 5 watts output on 40 meters.

Gain pot half and i tried full and no difference.

I am not very enthusiastic to change T2 ...

I am wondering if there another possibility ????

Another thing to check before T2 job ...

Tnx agn Gary

Martin

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Mon, 3 May 2010 22:25:46 -0400
Subject: Re: [DrakeRadio] T4XC R25 blow why?

Martin -

OK. Seems most likely that the old tube was shorted, Pin 5 to Pin 2. V2 V4V
It may or may not show with an ohmmeter check with the tube cold.

I can't say for certain, but I believe that the T2 is identical in both
the T-4XB and T-4XC. They both have the same internal cap, and the same
circuit topology. It tunes to 5.645 MHz in both units and the output
link matches to the same crystal filters.

When you get the old one out, open it up and inspect it for damage.

There is nothing in the TR-4 that would help, as it is an entirely
different IF.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> I am wondering if T2 in a T4XB is the same as in T4XC.
>
> I have a spare T4XB and TR4....
>

> Tnx
>
> Martin
>
>

[Non-text portions of this message have been removed]

3600. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 15:03:12 UTC
From: Garey Barrell
Topic: 3591 Message: 3600

Martin -

Yes, changing T2 is not a pleasant task, although there are worse ones! :-)

I would tune the transmitter, switch to CW, and adjust the core in T2.
It should have an obvious peak very close to where it is currently set.
If it DOES peak, we may have to look elsewhere. If it does NOT peak,
then I think changing T2 is the task.

If you have an oscilloscope, in TUNE mode you should see about 200 mV
p-p on the Grid (Pin 1, V2) and about 6V p-p on the Plate (Pin 5, V2).
You'll probably have to increase the GAIN to compensate for loading of
the scope. You should have about 2V p-p on the Secondary of T2.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin B wrote:
> Hello Gary
>
> just before leaving home this morning i used the T4XC.
>
> New V2 and i have got 5 watts output on 40 meters.
>
> Gain pot half and i tried full and no difference.
>
> I am not very enthusiastic to change T2 ...
>
> I am wondering if there another possibility ????
>
> Another thing to check before T2 job ...
>
> Tnx agn Gary
>
> Martin
>
>
>
> To: DrakeRadio@yahoogroups.com
> From: k4oah@...
> Date: Mon, 3 May 2010 22:25:46 -0400
> Subject: Re: [DrakeRadio] T4XC R25 blow why?
>

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>
> Martin -
>
> OK. Seems most likely that the old tube was shorted, Pin 5 to Pin 2. V2 V4V
> It may or may not show with an ohmmeter check with the tube cold.
>
> I can't say for certain, but I believe that the T2 is identical in both
> the T-4XB and T-4XC. They both have the same internal cap, and the same
> circuit topology. It tunes to 5.645 MHz in both units and the output
> link matches to the same crystal filters.
>
> When you get the old one out, open it up and inspect it for damage.
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> There is nothing in the TR-4 that would help, as it is an entirely
> different IF.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Martin wrote:
>
>> I am wondering if T2 in a T4XB is the same as in T4XC.
>>
>> I have a spare T4XB and TR4....
>>
>> Tnx
>>
>> Martin
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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3601. B Line Panel Lights

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 14:58:11 UTC
From: kzerofl
Topic: 3601 Message: 3601

So whats the best method to change the meter light in the TX4B? I see the lights are in series to when one goes they both go. The meter light bulb is really in there tight...is there a secret to easy changing it?

Thanks for any replies

de Tim KØFL

3602. Re: [DrakeRadio] B Line Panel Lights

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 15:10:00 UTC
From: Garey Barrell
Topic: 3601 Message: 3602

Tim -

I usually use a small screwdriver and pry the meter light clip against whatever is close to work it off. Once you get it started, you can insert your tool in the bend of the clip to pry it the rest of the way off.

I would replace both bulbs with #755 bulbs, and you probably won't have to do this again. The #47 is rated for 2-3000 hours of life and the #755 is rated at 20,000 hours.

When you replace the bulb, be sure and orient the lugs on the back of the socket so they aren't near the bracket or housing. They will turn, and if there is tension on the wires it can pull them into contact with the chassis, resulting in a blown bulb, or filament fuse.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kzerofl wrote:
> So whats the best method to change the meter light in the TX4B? I see the lights are in series to when one goes they both go. The meter light bulb is really in there tight...is there a secret to easy changing it?
>
> Thanks for any replies
>
> de Tim K?FL
>
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> Yahoo! Groups Links
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3603. Re: [DrakeRadio] B Line Panel Lights

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 15:38:45 UTC
From: Tim Randa
Topic: 3601 Message: 3603

Hi Garey and thanks for the advice. I couldn't get the clip to break loose from the bracket so I went ahead and removed the front panel to be able to loosen the meter and get to the bulb. Wasn't hard be there had to be a better way. I broke loose the bulb clip when I had access so next time will be easier. I am a new owner to the B's and so far really like the station. One thing I notice is I have a 50 watt difference between using the TX or the RX for transceive operation. What might I look at to resolve this?

Thanks again

de Tim K?FL

Garey Barrell wrote:
>
> Tim -
>
> I usually use a small screwdriver and pry the meter light clip against
> whatever is close to work it off. Once you get it started, you can
> insert your tool in the bend of the clip to pry it the rest of the way
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>
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> #755 is rated at 20,000 hours.
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> the socket so they aren't near the bracket or housing. They will turn,
> and if there is tension on the wires it can pull them into contact with
> the chassis, resulting in a blown bulb, or filament fuse.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> kzerofl wrote:
> > So whats the best method to change the meter light in the TX4B? I
> see the lights are in series to when one goes they both go. The meter
> light bulb is really in there tight...is there a secret to easy
> changing it?
> >
> > Thanks for any replies
> >
> > de Tim K?FL

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> > Yahoo! Groups Links
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3604. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 18:10:00 UTC
From: Martin B
Topic: 3591 Message: 3604

Tnx Gary!!!! I will follow your instruction.

Martin

VE2EDK

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Tue, 4 May 2010 11:03:12 -0400
Subject: Re: [DrakeRadio] T4XC R25 blow why?

Martin -

Yes, changing T2 is not a pleasant task, although there are worse ones! :-)

I would tune the transmitter, switch to CW, and adjust the core in T2.
It should have an obvious peak very close to where it is currently set.
If it DOES peak, we may have to look elsewhere. If it does NOT peak,
then I think changing T2 is the task.

If you have an oscilloscope, in TUNE mode you should see about 200 mV
p-p on the Grid (Pin 1, V2) and about 6V p-p on the Plate (Pin 5, V2).
You'll probably have to increase the GAIN to compensate for loading of
the scope. You should have about 2V p-p on the Secondary of T2.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin B wrote:
> Hello Gary
>
> just before leaving home this morning i used the T4XC.
>
> New V2 and i have got 5 watts output on 40 meters.
>
> Gain pot half and i tried full and no difference.
>
> I am not very enthusiastic to change T2 ...
>
> I am wondering if there another possibility ????
>
> Another thing to check before T2 job ...
>
> Tnx agn Gary

>
> Martin
>
>
>
> To: DrakeRadio@yahoogroups.com
> From: k4oah@...
> Date: Mon, 3 May 2010 22:25:46 -0400
> Subject: Re: [DrakeRadio] T4XC R25 blow why?
>
>
>
>
>
>
> Martin -
>
> OK. Seems most likely that the old tube was shorted, Pin 5 to Pin 2. V2 V4V
> It may or may not show with an ohmmeter check with the tube cold.
>
> I can't say for certain, but I believe that the T2 is identical in both
> the T-4XB and T-4XC. They both have the same internal cap, and the same
> circuit topology. It tunes to 5.645 MHz in both units and the output
> link matches to the same crystal filters.
>
> When you get the old one out, open it up and inspect it for damage.
>
> There is nothing in the TR-4 that would help, as it is an entirely
> different IF.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Martin wrote:
>
>> I am wondering if T2 in a T4XB is the same as in T4XC.
>>
>> I have a spare T4XB and TR4....
>>
>> Tnx
>>
>> Martin
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3605. RE: [DrakeRadio] B Line Panel Lights

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-04 19:35:42 UTC
From: Terrell Hamilton
Topic: 3601 Message: 3605

Tim: Swearing at it has always worked pretty well for me

73

Terry

K7WLD

Wenatchee, WA

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of kzerofl
Sent: Tuesday, May 04, 2010 7:58 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] B Line Panel Lights

So whats the best method to change the meter light in the TX4B? I see the lights are in series to when one goes they both go. The meter light bulb is really in there tight...is there a secret to easy changing it?

Thanks for any replies

de Tim KØFL

[Non-text portions of this message have been removed]

3606. Re: [DrakeRadio] B Line Panel Lights

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-05 00:00:32 UTC
From: Tim Randa
Topic: 3601 Message: 3606

I can only swear for so long before the wife slaps me...hi

Tim

Terrell Hamilton wrote:
>
> Tim: Swearing at it has
> always worked pretty well for
> me?
>
> 73
>
> Terry
>
> K7WLD
>
> Wenatchee, WA
>
> From:
> DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups
> .com] On Behalf Of kzerofl
> Sent: Tuesday, May 04, 2010
> 7:58 AM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: [DrakeRadio] B Line
> Panel Lights
>
> So whats the best method to
> change the meter light in the
> TX4B? I see the lights are in
> series to when one goes they
> both go. The meter light bulb
> is really in there tight...is
> there a secret to easy
> changing it?
>
> Thanks for any replies
>
> de Tim K?FL
>
> [Non-text portions of this message have been removed]
>
>

3607. FS B-1000

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-05 03:54:06 UTC
From: n5dpk
Topic: 3607 Message: 3607

I have a B-1000 surplus to my needs. Anyone need one email me at n5dpk@yahoo.com. Looking for 80.00 shipped.

Dennis

3608. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-05 12:58:20 UTC
From: Martin
Topic: 3591 Message: 3608

Hello Gary
I have 2 hours to play in the T4XC.
I tried T2 and it peak very well ...
Martin

-----Message d'origine-----
De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Martin B
Envoyé : 4 mai 2010 09:39
À : DrakeRadio@yahoogroups.com
Objet : RE: [DrakeRadio] T4XC R25 blow why?

Hello Gary

just before leaving home this morning i used the T4XC.

New V2 and i have got 5 watts output on 40 meters.

Gain pot half and i tried full and no difference.

I am not very enthusiastic to change T2 ...

I am wondering if there another possibility ????

Another thing to check before T2 job ...

Tnx agn Gary

Martin

To: DrakeRadio@yahoogroups.com
From: k4oah@...
Date: Mon, 3 May 2010 22:25:46 -0400
Subject: Re: [DrakeRadio] T4XC R25 blow why?

Martin -

OK. Seems most likely that the old tube was shorted, Pin 5 to Pin 2. V2 V4V
It may or may not show with an ohmmeter check with the tube cold.

I can't say for certain, but I believe that the T2 is identical in both
the T-4XB and T-4XC. They both have the same internal cap, and the same
circuit topology. It tunes to 5.645 MHz in both units and the output
link matches to the same crystal filters.

When you get the old one out, open it up and inspect it for damage.

There is nothing in the TR-4 that would help, as it is an entirely
different IF.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> I am wondering if T2 in a T4XB is the same as in T4XC.
>
> I have a spare T4XB and TR4....
>
> Tnx
>
> Martin
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

3609. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-05 13:54:47 UTC
From: Garey Barrell
Topic: 3591 Message: 3609

Martin -

OK. Sounds like T2 is ok, good. There just aren't many things that could cause R25 to burn. It appears that it was probably a shorted 12BA6 in V2.

Since you did not comment, I assume you do not have access to an oscilloscope. That makes it a little tougher.

Have you tried a new, known good V1? 12AX7A

Check the value of R28. 220 ohms

Check the DC voltages on V2, V3 and V4. Tune up the transmitter on a dummy load on 40M. Leave the unit in TUNE, and reduce GAIN to minimum and measure the voltages on this three stages.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello Gary
> I have 2 hours to play in the T4XC.
> I tried T2 and it peak very well ...
> Martin
>
> -----Message d'origine-----
> De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
> part de Martin B
> Envoy? : 4 mai 2010 09:39
> ? : DrakeRadio@yahoogroups.com
> Objet : RE: [DrakeRadio] T4XC R25 blow why?
>
>
> Hello Gary
>
> just before leaving home this morning i used the T4XC.
>
> New V2 and i have got 5 watts output on 40 meters.
>
> Gain pot half and i tried full and no difference.
>
> I am not very enthusiastic to change T2 ...
>

> I am wondering if there another possibility ????
>
> Another thing to check before T2 job ...
>
> Tnx agn Gary
>
> Martin
>
>
>

3610. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-05 14:14:24 UTC
From: Garey Barrell
Topic: 3591 Message: 3610

Martin -

Also check value and condition of R44.

I'm assuming this is the same on several bands?.

73, Garey - K4OAH
Glen Allen, VA

3611. RE: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-07 01:29:40 UTC
From: Martin
Topic: 3591 Message: 3611

Hello Gary

Yesterday was very encouraging for my T4XC.

R26 burned, pin 6 of V2 short to ground.

Now T4XC transmit.

On 15 and 10 meters need more gain. Pot is full butit is not enough. I have 75 watts on 21 but on tune position. 5 on cw position.

I will check frequency in carr osc jack with my frequency meter.

Martin

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 5 mai 2010 10:14
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC R25 blow why?

Martin -

Also check value and condition of R44.

I'm assuming this is the same on several bands?.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

3612. Re: [DrakeRadio] T4XC R25 blow why?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-07 02:53:35 UTC
From: Garey Barrell
Topic: 3591 Message: 3612

Martin -

OK. Probably what happened was that the Plate of V2 shorted to the Suppressor, burning R25, and when Plate voltage was lost the Screen began trying to take its place. That caused the Screen to short to the suppressor also, taking out R25. So almost certainly a bad V2 started the whole thing.

The Car Osc frequency should be near 5.644999 MHz in CW, and shift up about 800-900 Hz in CW. Check value and condition of R104.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello Gary
>
> Yesterday was very encouraging for my T4XC.
>
> R26 burned, pin 6 of V2 short to ground.
>
> Now T4XC transmit.
>
> On 15 and 10 meters need more gain. Pot is full butit is not enough. I
> have 75 watts on 21 but on tune position. 5 on cw position.
>
> I will check frequency in carr osc jack with my frequency meter.
>
> Martin
>
>
>
> De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
> part de Garey Barrell
> Envoy? : 5 mai 2010 10:14
> ? : DrakeRadio@yahoogroups.com
> Objet : Re: [DrakeRadio] T4XC R25 blow why?
>
>
>
>
>
> Martin -

>
> Also check value and condition of R44.
>
> I'm assuming this is the same on several bands?.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
>
>
>

3613. Difference Between T-4X And The T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 07:04:50 UTC
From: Joe
Topic: 3613 Message: 3613

I was just given a complete Drake system, including AC-4 and MN-4 tuner and D-104, non-amplified mic.

The transmitter is a T-4X....It doesn't have the 'moguled' knobs my B has....but other than that, what IS the difference between the older transmitter and the B??

BTW...the copper on this one is pristine, only one little blemish on the T-4X and none on the R-4B.

I was helping an older lady (One of my wife's patients) move to an assisted living facility...and she had this radio wrapped in big garbage bags in one of closets. It belonged to her late husband who passed away 30 years ago. I looked at the radio and told her she had a 'barn find' in her closet...I told her I would try and sell it for her.....she asked if I had any use for it....get that? Use for it??!! I told her yes but it was worth some money and she should try and sell it...she said, "No, just take it...thanks for helping an old lady move."

How could I be so lucky a second time! My first B line came to me in pristine condition, cosmetically, as well. Oh well, I didn't win anything at our Emcomm raffle here in Reno last week, so this was my raffle prize.

Ahem....Still looking for an L-4B.....thank you very much!

Joe Wolfe

WA6RKN

Reno, Nevada

3614. Re: [DrakeRadio] Difference Between T-4X And The T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 12:25:51 UTC
From: John Daly
Topic: 3613 Message: 3614

Joe:

RE: The L-4B - keep offering kindness to others and the L-4B will eventually appear!

Best regards (73) .

John WA9WHD
Lutz, FL

--- On Sat, 5/8/10, Joe <WA6RKN@...> wrote:

From: Joe <WA6RKN@...>
Subject: [DrakeRadio] Difference Between T-4X And The T-4XB
To: DrakeRadio@yahoogroups.com
Date: Saturday, May 8, 2010, 12:04 AM

I was just given a complete Drake system, including AC-4 and MN-4 tuner and
D-104, non-amplified mic.

The transmitter is a T-4X....It doesn't have the 'moguled' knobs my B
has....but other than that, what IS the difference between the older
transmitter and the B??

BTW...the copper on this one is pristine, only one little blemish on the
T-4X and none on the R-4B.

I was helping an older lady (One of my wife's patients) move to an assisted
living facility...and she had this radio wrapped in big garbage bags in one
of closets. It belonged to her late husband who passed away 30 years ago.
I looked at the radio and told her she had a 'barn find' in her closet...I
told her I would try and sell it for her......she asked if I had any use for
it....get that? Use for it??!! I told her yes but it was worth some money
and she should try and sell it...she said, "No, just take it...thanks for
helping an old lady move."

How could I be so lucky a second time! My first B line came to me in
pristine condition, cosmetically, as well. Oh well, I didn't win anything
at our Emcomm raffle here in Reno last week, so this was my raffle prize.

Ahem....Still looking for an L-4B.......thank you very much!

Joe Wolfe

WA6RKN

Reno, Nevada

[Non-text portions of this message have been removed]

3615. Re: [DrakeRadio] Difference Between T-4X And The T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 12:39:58 UTC
From: Dave And Merrijoy
Topic: 3613 Message: 3615

Blessings come in all forms, Joe.
She appreciated your help, that is sure!!
Dave w9ocm

----- Original Message -----
From: Joe
To: DrakeRadio@yahoogroups.com
Sent: Saturday, May 08, 2010 3:04 AM
Subject: [DrakeRadio] Difference Between T-4X And The T-4XB

I was just given a complete Drake system, including AC-4 and MN-4 tuner and D-104, non-amplified mic.

The transmitter is a T-4X....It doesn't have the 'moguled' knobs my B has....but other than that, what IS the difference between the older transmitter and the B??

BTW...the copper on this one is pristine, only one little blemish on the T-4X and none on the R-4B.

I was helping an older lady (One of my wife's patients) move to an assisted living facility...and she had this radio wrapped in big garbage bags in one of closets. It belonged to her late husband who passed away 30 years ago. I looked at the radio and told her she had a 'barn find' in her closet...I told her I would try and sell it for her.....she asked if I had any use for it....get that? Use for it??!! I told her yes but it was worth some money and she should try and sell it...she said, "No, just take it...thanks for helping an old lady move."

How could I be so lucky a second time! My first B line came to me in pristine condition, cosmetically, as well. Oh well, I didn't win anything at our Emcomm raffle here in Reno last week, so this was my raffle prize.

Ahem....Still looking for an L-4B.....thank you very much!

Joe Wolfe

WA6RKN

Reno, Nevada

[Non-text portions of this message have been removed]

3616. Re: [DrakeRadio] Difference Between T-4X And The T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 15:26:50 UTC
From: Garey Barrell
Topic: 3613 Message: 3616

Hi Joe -

I've been doing this stuff for 50 years, and I've NEVER fallen into one like that! :-) Obviously I've picked the wrong old ladies to help!!

Other than a few cosmetic differences, black lettering about the "belt line", "PTO in use" light, dished dial skirt, and removal of the five kHz dial marks, they are essentially identical.

The only significant difference between the T-4X and the "B" is that the former has four pole crystal filters and the latter has six pole filters.

As a result, the T-4X is marginal at best on SSB for Carrier and unwanted sideband suppression, by today's standards. The only caveat I would suggest is to not drive an L-4B, (or any other,) linear with it on SSB. It's fine for CW, but for SSB I'd stick to barefoot operation, especially if you have any nearby Ham "friends"!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> I was just given a complete Drake system, including AC-4 and MN-4 tuner and
> D-104, non-amplified mic.
>
>
>
> The transmitter is a T-4X....It doesn't have the 'moguled' knobs my B
> has....but other than that, what IS the difference between the older
> transmitter and the B??
>
>
>
> BTW...the copper on this one is pristine, only one little blemish on the
> T-4X and none on the R-4B.
>
>
>
> I was helping an older lady (One of my wife's patients) move to an assisted
> living facility...and she had this radio wrapped in big garbage bags in one
> of closets. It belonged to her late husband who passed away 30 years ago.
> I looked at the radio and told her she had a 'barn find' in her closet...I
> told her I would try and sell it for her.....she asked if I had any use for
> it....get that? Use for it??!! I told her yes but it was worth some money

> and she should try and sell it...she said, "No, just take it...thanks for
> helping an old lady move."
>
>
>
> How could I be so lucky a second time! My first B line came to me in
> pristine condition, cosmetically, as well. Oh well, I didn't win anything
> at our Emcomm raffle here in Reno last week, so this was my raffle prize.
>
>
>
>
>
> Ahem....Still looking for an L-4B.......thank you very much!
>
>
>
> Joe Wolfe
>
> WA6RKN
>
> Reno, Nevada
>
>
>

3617. Drake Parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 15:56:13 UTC
From: Jim K5JG
Topic: 3617 Message: 3617

If anyone is interested, I have an R-4B and three lots of Drake parts listed on that unmentionable auction site. Some Heathkit stuff, too.

73, Jim K5JG

3618. Drake Niose Blanker 34-PNB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-08 23:10:46 UTC
From: Gary S
Topic: 3617 Message: 3618

Hi Folks,

I am after a 34-PNB for my Tr4c, if you've got one to spare....

73
Gary
vk2zbb

[Non-text portions of this message have been removed]

3619. L4B for sale on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 01:34:52 UTC
From: Daniel Galligan
Topic: 3619 Message: 3619

I remember someone recently saying they want an L-4B, and just saw this on QRZ:
http://forums.qrz.com/showthread.php?t=247739
Dan Galligan
W3RXO
dgalligan60 (at) mac (dot) com
w3rxo (at) mac (dot) com

The price of freedom is eternal vigilance.
Thomas Jefferson

[Non-text portions of this message have been removed]

3620. Re: [DrakeRadio] L4B for sale on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 01:59:17 UTC
From: Joe
Topic: 3619 Message: 3620

'Twas I who is looking...He won't sell it to me as I would have to have it shipped and he won't ship unless he can get the extra 100 or so from an eBay sale. Too bad.....I would have paid for the packaging and shipping.

Dan...thanks for remembering I was looking...(And still am!)

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Daniel Galligan" <w3rxo@...>
Subject: [DrakeRadio] L4B for sale on QRZ

>I remember someone recently saying they want an L-4B, and just saw this on
>QRZ:
> http://forums.qrz.com/showthread.php?t=247739

3621. Re: [DrakeRadio] L4B for sale on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 02:12:02 UTC
From: Dan Galligan
Topic: 3619 Message: 3621

No problem. Wish it could have helped. I have one, but don't want to sell it. I had been looking, inactively, for 15 years, for the righ one, at the right price, and found one, by chance, last November, for $500, in near mint shape, with a spare set of NOS 3-500ZG's. I figured I wasn't going to find a better price, so I grabbed it.
You'll find one. You just need to look long and hard.
Dan Galligan
W3RXO
dgalligan60 (at) mac (dot) com
w3rxo (at) mac (dot) com

When injustice becomes law, resistance becomes duty.
Thomas Jefferson

[Non-text portions of this message have been removed]

3622. Re: [DrakeRadio] L4B for sale on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 13:23:05 UTC
From: K4GM-George
Topic: 3619 Message: 3622

Joe,

I have a spare L4B for sale for $800 plus shipping. It works great and is currently wired into the operating position in case you would like to hear it "live". Tubes are in great shape and as far as I can tell it works perfectly. Cosmetically it looks excellent. I'm selling it only because I acquired a virtually brand new L4B with new tubes and am rebuilding the power supply with Mike Bryce's board. Don't need two!

73, K4GM- George

K4GM- George

Joe wrote:
>
> 'Twas I who is looking...He won't sell it to me as I would have to
> have it
> shipped and he won't ship unless he can get the extra 100 or so from
> an eBay
> sale. Too bad.......I would have paid for the packaging and shipping.
>
> Dan...thanks for remembering I was looking...(And still am!)
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> ----- Original Message -----
> From: "Daniel Galligan" <w3rxo@... <mailto:w3rxo%40mac.com>>
> Subject: [DrakeRadio] L4B for sale on QRZ
>
> >I remember someone recently saying they want an L-4B, and just saw
> this on
> >QRZ:
> > http://forums.qrz.com/showthread.php?t=247739
> <http://forums.qrz.com/showthread.php?t=247739>
>
>

3623. Re: [DrakeRadio] L4B for sale on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 17:34:35 UTC
From: Joe
Topic: 3619 Message: 3623

Hi George.....

Sorta sounds like a dumb question, but the L4B you have...that does or does not include the power supply. Your message sounds a bit like you are rebuilding that P/S for the new(er) L4B.

If it does include the P/S, I would be interested. 4 call. Virginia? Your call is very familiar....I think I wrote you a while back....you have labs, if memory serves.....I mentioned that my oldest son has a red lab, I think it is....good bird dog...took to upland game birds with no problem. (Quail, chukkar, pheasant, grouse, sage hen, etc.)

I wander from the subject...if you have pictures, in and out, I would be delighted to view them.....my Gmail address accepts large files so you could send them to me there.

Joe Wolfe
WA6RKN
WA6RKN@...
Reno, Nevada

----- Original Message -----
From: "K4GM-George" <k4gm@...>
Subject: Re: [DrakeRadio] L4B for sale on QRZ

> Joe,
>
> I have a spare L4B for sale for $800 plus shipping. It works great and
> is currently wired into the operating position in case you would like to
> hear it "live". Tubes are in great shape and as far as I can tell it
> works perfectly. Cosmetically it looks excellent. I'm selling it only
> because I acquired a virtually brand new L4B with new tubes and am
> rebuilding the power supply with Mike Bryce's board. Don't need two!

3624. Re: [Drakelist] Dayton Hamvention

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 19:38:02 UTC
From: Dave And Merrijoy
Topic: 3624 Message: 3624

I'll bet it would be fun to join together with folks to discuss Drake radios.
I'm sorry I can't afford to get there.
Maybe one day.

Dave w9ocm

----- Original Message -----
From: k9sqg@...
To: drakelist@...
Sent: Saturday, May 08, 2010 11:03 AM
Subject: [Drakelist] Dayton Hamvention

Fellow Drake Enthusiasts,

The Drake Forum Committee would like to invite you and welcome you to the Drake Forum and the Dayton Hamvention. The Forum is on Saturday of Hamvention weekend, next weekend, at 10:30 to 11:30, in Room 2. Featured speaker is Rob Sherwood, and there is a free raffle. More details are on the DARA website.

Informal gatherings of Drake Enthusiasts can be found throughout the weekend at the fleamarket spaces for Jeff, WA8SAJ, one of the net controllers for the Drake Technical Net. His space numbers are 2328, 2329, and 2330. Be sure to stop by and say hello. Take a look at what he has for sale too, you might just find what you need.

Safe travel and welcome to Dayton!

Evan, K9SQG
For the Drake Forum Committee

_____
Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

[Non-text portions of this message have been removed]

3625. Drake TR-4 low output on 40 meters only

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-09 22:31:33 UTC
From: Eric 12374
Topic: 3625 Message: 3625

My TR-4 works FB on all bands except 40 were the power output is pretty low, down around 75 watts or less. On the other bands it is well over 150 watts pep. Anyone have any ideas what to look for and what i need to do?

K9FON

3626. Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-12 19:47:10 UTC
From: arsnf7z
Topic: 3626 Message: 3626

funny, it never seemed much of an issue when I used my Drake equipment in the 1970's. fast forward thirty years, and spoiled by newer Icom transceivers with 1-hertz tuning, and my Drake PTO seems way too coarse. that is, I'm always wishing for another 2:1 reduction. anyone else notice this? it seems the tuning is, for me, right on the ragged edge of being acceptable for sideband signals. I'm adjusting, slowly, but it did occur to me that the ratios aren't optimized for SSB. are the Collins PTO's about the same tuning rate per dial revolution?

is it just me?

73's

NF7Z, daniel

3627. Re: [DrakeRadio] Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-12 20:44:25 UTC
From: Garey Barrell
Topic: 3626 Message: 3627

Daniel -

All I can say is that 'way back then' nobody was concerned whether they were on 14.175000 or 14.175100 kHz. :-)

There seems to be an increasing "need" to be on an "even" kHz, or 10 kHz, etc. We're becoming channelized!! It's not nearly as bad on CW as it is on SSB, perhaps it's the influx of CB operators who are used to channels?

Personally, I, like MANY others, developed a "safe-cracker's touch" from using receivers with dials that covered the entire 50 kHz wide Novice CW band on less than one fourth of a 1 kHz division on the Drake. Seriously... :-)

All that aside, the Drake PTO is 25 kHz per revolution, and the Collins S-Line is 20 kHz per revolution. So if you really NEED that degree of control, aside from buying one of the new $5000 + transceivers with 1 Hz synthesizer steps, you might want to work on your "touch"!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> funny, it never seemed much of an issue when I used my Drake equipment in the 1970's. fast forward thirty years, and spoiled by newer Icom transceivers with 1-hertz tuning, and my Drake PTO seems way too coarse. that is, I'm always wishing for another 2:1 reduction. anyone else notice this? it seems the tuning is, for me, right on the ragged edge of being acceptable for sideband signals. I'm adjusting, slowly, but it did occur to me that the ratios aren't optimized for SSB. are the Collins PTO's about the same tuning rate per dial revolution?
>
> is it just me?
>
> 73's
>
> NF7Z, daniel
>
>
>

3628. Re: [DrakeRadio] Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-12 21:08:03 UTC
From: Jim Shorney
Topic: 3626 Message: 3628

I'm with Garey on this. All you need is a fine touch and a little patience. I always thought the "modern" radios with 100 Hz or smaller tuning steps tune too slowly. Even mobil with my HR-2510, I usually go in 1 KHz steps and make up the difference with the variable knob formerly known as "RIT".

I'll take any analog VFO any day over a digital gadget, because you can never seem to get right.on.the.other.guy's.frequency with digital stepped tuning.

73

-Jim

On Wed, 12 May 2010 16:44:25 -0400, Garey Barrell wrote:

>Daniel -
>
>All I can say is that 'way back then' nobody was concerned whether they
>were on 14.175000 or 14.175100 kHz. :-)
>
>There seems to be an increasing "need" to be on an "even" kHz, or 10
>kHz, etc. We're becoming channelized!! It's not nearly as bad on CW as
>it is on SSB, perhaps it's the influx of CB operators who are used to
>channels?
>
>Personally, I, like MANY others, developed a "safe-cracker's touch" from
>using receivers with dials that covered the entire 50 kHz wide Novice CW
>band on less than one fourth of a 1 kHz division on the Drake.
>Seriously... :-)
>
>All that aside, the Drake PTO is 25 kHz per revolution, and the Collins
>S-Line is 20 kHz per revolution. So if you really NEED that degree of
>control, aside from buying one of the new $5000 + transceivers with 1 Hz
>synthesizer steps, you might want to work on your "touch"!! :-)
>
>73, Garey - K4OAH
>Glen Allen, VA
>
>Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
><www.k4oah.com>
>
>
>arsnf7z wrote:
>> funny, it never seemed much of an issue when I used my Drake equipment in the 1970's. fast forward thirty years, and spoiled by newer Icom transceivers with 1-hertz tuning, and my Drake PTO seems way too coarse. that is, I'm always wishing for another 2:1 reduction. anyone else notice this? it seems the tuning is, for me, right on the ragged edge of being

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>>
>> is it just me?
>>
>> 73's
>>
>> NF7Z, daniel
>>
>>
>>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3629. Re: [DrakeRadio] Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-12 21:26:01 UTC
From: William Houghton
Topic: 3626 Message: 3629

Hi Garey,

Recently you kindly replied to my inquiry about the TR-4C tuning gears. The gear seems to have loosened up and doesn't stick on the shaft anymore :)

However, I have noticed what seems to be a bit of clutch slipping. Is there anyway to fix this ?

I feel like I'm really close to getting the TR-4C back on the air.

Next up on my fix list:

RV-4C
R-4A
TR-3 with a very strange problem.

thanks,

Bill

Thanks,

Bill

--- On Wed, 5/12/10, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake PTO tuning rate ..
To: DrakeRadio@yahoogroups.com
Date: Wednesday, May 12, 2010, 1:44 PM

Daniel -

All I can say is that 'way back then' nobody was concerned whether they were on 14.175000 or 14.175100 kHz. :-)

There seems to be an increasing "need" to be on an "even" kHz, or 10 kHz, etc. We're becoming channelized! ! It's not nearly as bad on CW as it is on SSB, perhaps it's the influx of CB operators who are used to channels?

Personally, I, like MANY others, developed a "safe-cracker' s touch" from using receivers with dials that covered the entire 50 kHz wide Novice CW band on less than one fourth of a 1 kHz division on the Drake. Seriously... :-)

All that aside, the Drake PTO is 25 kHz per revolution, and the Collins S-Line is 20 kHz per revolution. So if you really NEED that degree of control, aside from buying one of the new $5000 + transceivers with 1 Hz

synthesizer steps, you might want to work on your "touch"!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> funny, it never seemed much of an issue when I used my Drake equipment in the 1970's. fast forward thirty years, and spoiled by newer Icom transceivers with 1-hertz tuning, and my Drake PTO seems way too coarse. that is, I'm always wishing for another 2:1 reduction. anyone else notice this? it seems the tuning is, for me, right on the ragged edge of being acceptable for sideband signals. I'm adjusting, slowly, but it did occur to me that the ratios aren't optimized for SSB. are the Collins PTO's about the same tuning rate per dial revolution?
>
> is it just me?
>
> 73's
>
> NF7Z, daniel
>
>
>

[Non-text portions of this message have been removed]

3630. Re: [DrakeRadio] Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-12 21:48:49 UTC
From: Garey Barrell
Topic: 3626 Message: 3630

Bill -

The "clutch" is just behind the dial plate behind the MAIN TUNING knob. If you remove the knob and plate, you'll find a (probably gray) piece of plastic/rubber tubing slipped over the shaft. It's 3/8" o.d., 1/4" i.d., and a little over 1/2" long. Over time, this material gets hard and the ends become "polished" and slip against the back of the metal dial plate.

First step is to replace the knob and plate, and press in on the knob towards the panel while tightening the knob setscrew, essentially compressing the clutch. If it still slips, you can "sand" the ends to roughen them up a bit and try again. Still no luck, then see what kind of tubing you can find. I have used the clear poly tubing from the hardware store rack, (you get funny looks when you ask for 1' of tubing,) rubber surgical tubing, and some have used automotive "heater" hose, the stuff with the re-inforcing threads in it.

In all cases, press in on the knob while you tighten the setscrew to engage the friction clutch.

Let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Hi Garey,
>
> Recently you kindly replied to my inquiry about the TR-4C tuning gears. The gear seems to have loosened up and doesn't stick on the shaft anymore :)
>
> However, I have noticed what seems to be a bit of clutch slipping. Is there anyway to fix this ?
>
> I feel like I'm really close to getting the TR-4C back on the air.
>
> Next up on my fix list:
>
> RV-4C
> R-4A
> TR-3 with a very strange problem.
>
> thanks,

>
> Bill
>
> Thanks,
>
> Bill
>
>

3631. Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-13 04:03:44 UTC
From: arsnf7z
Topic: 3626 Message: 3631

I think my 'touch' is just fine. I too grew up with a BC-348, Arc-5's, and other less refined receivers, and never had a problem. of course, they generally all had BFO controls or some other form of RIT. my question is as an engineer, and has nothing to do with finesse. my point is, is that touch or no-touch, the tuning-rate could benefit from a slight reduction as with Collins. it's a personal preference, most certainly, and I would have designed it slightly slower.

I have no issues with digital tuning. the channelization is a simple artifact of synthesized tuning and is a benefit. my complaint is the implementation. I dislike having to enter a menu to change the tuning rate, but do appreciate the precision and stability of my Icom 7000. the Drake tuning rate is fine for AM and CW, and acceptable for SSB, but not optimum in my opinion.

73's

NF7Z, daniel

3632. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-13 07:53:54 UTC
From: Richard Knoppow
Topic: 3626 Message: 3632

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 12, 2010 9:03 PM
Subject: [DrakeRadio] Re: Drake PTO tuning rate ..

>I think my 'touch' is just fine. I too grew up with a
>BC-348, Arc-5's, and other less refined receivers, and
>never had a problem. of course, they generally all had BFO
>controls or some other form of RIT. my question is as an
>engineer, and has nothing to do with finesse. my point is,
>is that touch or no-touch, the tuning-rate could benefit
>from a slight reduction as with Collins. it's a personal
>preference, most certainly, and I would have designed it
>slightly slower.
>
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> is a simple artifact of synthesized tuning and is a
> benefit. my complaint is the implementation. I dislike
> having to enter a menu to change the tuning rate, but do
> appreciate the precision and stability of my Icom 7000.
> the Drake tuning rate is fine for AM and CW, and
> acceptable for SSB, but not optimum in my opinion.
>
> 73's
>
> NF7Z, daniel
>
I wonder if some sort of slow-motion drive, a'la the
75A4 could be devised. I don't know the details of the
Collins arrangement but the first receivers did not have it.
I think it may be no more than a ball-bearing speed reducer
as part of the tuning knob. Not sure if this could be
implimented on a Drake receiver easily, but perhaps someone
with more knowledge of these things could tell us if its
practical. I am able to tune SSB satisfactorily with my R-4B
but then I am somewhat old-fashioned.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3633. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-13 14:35:06 UTC
From: Garey Barrell
Topic: 3626 Message: 3633

Richard Knoppow wrote:
> ----- Original Message -----
> From: "arsnf7z"<ars.nf7z@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, May 12, 2010 9:03 PM
> Subject: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
>
>> I think my 'touch' is just fine. I too grew up with a
>> BC-348, Arc-5's, and other less refined receivers, and
>> never had a problem. of course, they generally all had BFO
>> controls or some other form of RIT. my question is as an
>> engineer, and has nothing to do with finesse. my point is,
>> is that touch or no-touch, the tuning-rate could benefit
>>
> >from a slight reduction as with Collins. it's a personal
>
>> preference, most certainly, and I would have designed it
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>> benefit. my complaint is the implementation. I dislike
>> having to enter a menu to change the tuning rate, but do
>> appreciate the precision and stability of my Icom 7000.
>> the Drake tuning rate is fine for AM and CW, and
>> acceptable for SSB, but not optimum in my opinion.
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>>
>>
> I wonder if some sort of slow-motion drive, a'la the
> 75A4 could be devised. I don't know the details of the
> Collins arrangement but the first receivers did not have it.
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> as part of the tuning knob. Not sure if this could be
> implimented on a Drake receiver easily, but perhaps someone
> with more knowledge of these things could tell us if its
> practical. I am able to tune SSB satisfactorily with my R-4B
> but then I am somewhat old-fashioned.
>
>

Richard -

Surely, as an "engineer" who's "touch" is "just fine", he should be able to devise such a mechanism! :-)

I envision a bracket bolted to the table in front of the receiver with a ball reduction drive mounted on it, and an eight inch diameter knob on it! :-)

Another layer of skin might help too!

Actually, the Collins 4:1 knob is what I believe is called a cyclical drive, or possibly ring and pinion. NO "stinkin' " ball drive for Collins. See attached photos. It was a $29.95 option on the 75A-4 in the 50's, but this is a repro, and cost more than an R-4B today! :-)

Yes, YOU can tune SSB, _BUT_ can you set your receiver to 14.175000, huh!?!?!?!? Can you!?!?!??!

73, Garey - K4OAH

[Non-text portions of this message have been removed]

3634. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 00:35:05 UTC
From: Jim Shorney
Topic: 3626 Message: 3634

On Thu, 13 May 2010 04:03:44 -0000, arsnf7z wrote:

> the Drake tuning rate is fine for AM and CW, and acceptable for SSB, but not optimum in my opinion.
>

Different strokes for different folks, I guess. :) I find the Drake tuning to be a good middle ground between band surfing and gnat's-behind nailing. Slow tuning rates annoy me, but that's just me. I think Garey and I could find each other on HF SSB just fine.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3635. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 01:55:23 UTC
From: Jim Shorney
Topic: 3626 Message: 3635

On Thu, 13 May 2010 10:36:50 -0400, Garey Barrell wrote:

>
>I envision a bracket bolted to the table in front of the receiver with a ball reduction drive
>mounted on it, and an eight inch diameter knob on it! :-)

Wow.

This isn't April, so those pics must be real.

Would be much simpler to build one of those nifty DDS VFOs, then he could microhertz to his heart's content.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3636. Re: TR-4C clutch slipping

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 05:21:45 UTC
From: wa6neq
Topic: 3626 Message: 3636

Garey,

Took off the knob and skirt and the grey plastic "clutch". Ran it over a sanding block for a few short passes just to roughen the ends without removing much material. Put it back together wi5th some pressure on the knobs. Reset the dials to read the proper frequency. Now it tracks pretty well from 0 to 500KHz.

I need to do the same with the RV-4C, too.

Thanks for the help,

Bill

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
> The "clutch" is just behind the dial plate behind the MAIN TUNING knob.
> If you remove the knob and plate, you'll find a (probably gray) piece of
> plastic/rubber tubing slipped over the shaft. It's 3/8" o.d., 1/4"
> i.d., and a little over 1/2" long. Over time, this material gets hard
> and the ends become "polished" and slip against the back of the metal
> dial plate.
>
> First step is to replace the knob and plate, and press in on the knob
> towards the panel while tightening the knob setscrew, essentially
> compressing the clutch. If it still slips, you can "sand" the ends to
> roughen them up a bit and try again. Still no luck, then see what kind
> of tubing you can find. I have used the clear poly tubing from the
> hardware store rack, (you get funny looks when you ask for 1' of
> tubing,) rubber surgical tubing, and some have used automotive "heater"
> hose, the stuff with the re-inforcing threads in it.
>
> In all cases, press in on the knob while you tighten the setscrew to
> engage the friction clutch.
>
> Let us know!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> William Houghton wrote:

> > Hi Garey,
> >
> > Recently you kindly replied to my inquiry about the TR-4C tuning gears. The gear seems to have loosened up and doesn't stick on the shaft anymore :)
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> > However, I have noticed what seems to be a bit of clutch slipping. Is there anyway to fix this ?
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> > I feel like I'm really close to getting the TR-4C back on the air.
> >
> > Next up on my fix list:
> >
> > RV-4C
> > R-4A
> > TR-3 with a very strange problem.
> >
> > thanks,
> >
> > Bill
> >
> > Thanks,
> >
> > Bill
> >
> >
>

3637. FS RV-4 serial number 15039 (early 1973) Two-Tube version Silver trim

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 10:29:43 UTC
From: Kris Merschrod
Topic: 3626 Message: 3637

This is a nice Drake assesory - provides a speaker, and a place for the AC-3 or AC-4 plus allows split operating for the TR-3 or TR-4 lines.

I have for sale this early RV-4, Two Tube version (OA2 and 12AU7) Later models were single tube). Face plate is very clean (has the silver trim around the perimeter), the cabinet is dull and scuffed in places. The chassis (copper plated) has the usual "freckles" and underneat in one corner it is "rusted." I have tried to use it with my late model TR-4CWx and it only works in one position and I can't figure out why.

Although I have the original speaker (it was buzzing) and will include it, I have installed a new 4 ohm speaker.

Who will give me $125 for it?

Photo from all angles via direct email

Kris (KM2KM as of Tuesday!)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

3638. L7 and MN2700 for sale in Australia

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 12:49:36 UTC
From: vk6xhg0
Topic: 3638 Message: 3638

I have both the above for sale, but they are too heavy to export. Perhaps there are some Drake lovers here in Australia who may be interested. Please contact me off the group at vk6rk@... for details. The amp has the Heathkit shop upgrade to the caps and resistors in the power supply.
Thanks
Keith VK6RK

3639. Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 14:07:42 UTC
From: arsnf7z
Topic: 3626 Message: 3639

funny -

there is a difference between using a tool, and suggesting that the tool could be refined. I was really just contributing a post/topic to liven up an abeyant forum. I don't hold such an allegiance to Drake, to not recognize and suggest areas of improvement. I still think the tuning rate is slightly too fast for a receiver without some form of RIT.

no problem though, hearing from others with a differing opinion. one persons complaint is anothers feature ... if I want to operate exactly on 14.175000 Mhz I'd use my Agilent 33220A Arbitrary Waveform Generator as the Injection source. or use my Icom :)

or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.

just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks <grin>

73's

3640. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 17:03:10 UTC
From: Garey Barrell
Topic: 3626 Message: 3640

Daniel -

Absolutely! Please don't let the "humor" here put you off..... I
guess for some it's a little too pointed.

I like the "stepper-motor and belt drive" idea.! There was a similar
approach taken many years ago to scan the six meter band on a Collins
75A-4 with a converter in front of it. I believe it may even have been
a cover article! Would certainly touch a nerve with the Collins guys
today, although it was considered "innovative" at the time.... :-)

I'm looking forward to your next topic!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> funny -
>
> there is a difference between using a tool, and suggesting that the tool could be refined. I was really just contributing a post/topic to liven up an abeyant forum. I don't hold such an allegiance to Drake, to not recognize and suggest areas of improvement. I still think the tuning rate is slightly too fast for a receiver without some form of RIT.
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> no problem though, hearing from others with a differing opinion. one persons complaint is anothers feature ... if I want to operate exactly on 14.175000 Mhz I'd use my Agilent 33220A Arbitrary Waveform Generator as the Injection source. or use my Icom :)
>
> or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.
>
> just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks<grin>
>
> 73's
>
>

3641. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 18:43:22 UTC
From: Richard Knoppow
Topic: 3626 Message: 3641

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, May 14, 2010 10:03 AM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

> Daniel -
>
> Absolutely! Please don't let the "humor" here put you
> off..... I
> guess for some it's a little too pointed.
>
> I like the "stepper-motor and belt drive" idea.! There
> was a similar
> approach taken many years ago to scan the six meter band
> on a Collins
> 75A-4 with a converter in front of it. I believe it may
> even have been
> a cover article! Would certainly touch a nerve with the
> Collins guys
> today, although it was considered "innovative" at the
> time.... :-)
>
> I'm looking forward to your next topic!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
A long time ago I saw a picture of a receiver at
coastal telegraph station KLC in Galveston set up for
automatic scanning. It was a WW-2 vintage Super-Pro with a
motor drive attached to the band spread shaft. I never saw
any details of how it was rigged.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3642. Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 18:41:09 UTC
From: arsnf7z
Topic: 3626 Message: 3642

to be fair .. I think the Drake tuning rate is only marginally fast. I think the 20khz rate cited for the Collins PTO would be perfect. no need for anything slower than that.

the RCA phono jacks are a strange choice, until you look at the costs and the fact that we're operating at relatively low frequencies. I've own seven Drake pieces, with a mint TR4XC and R4C sitting here on my sailboat, and when I had an engineering lab available I did some studies and couldn't really justify changing to BNC. I think I did change RCVR input on my R4B to BNC .. but there is little need to do so. this week I finally bought a T4XC, so the phono plug makes sense when used with a companion Drake. those RCA/SO-239 adapters are evil!

I never liked the SSB audio on my Drake R4B. so, it wasn't long before I bought the R4C which to my ears, sounded much better. oddly enough, the word on the street is that the R4C product detector is inferior to the R4B, but I sure didn't see it that way. I also hear reports of the 'stunning' audio on the R4C, and wonder if everyone knows it is a solid-state audio amplifier. even the TR4XC has a solid-state buffer/pre-amp, though it does drive a bona-fide tube output stage. AM sounds great on both!

I love Drake equipment and its design. I'm having a blast using equipment that has tubes and big knobs. heck, I just ordered a 100th Anniversary Vibroplex Original Bug .. just to keep the mood going. no lava lamps though .. yet :)

73's

3643. Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 19:04:41 UTC
From: arsnf7z
Topic: 3626 Message: 3643

sorry ... I meant to say TR4C and not TR4XC.

anyone, sell me your RV4C!

one more point. I just bought this mint TR4C, and the previous owner had swapped out the original speaker for a Jensen speaker with a 10oz voice coil. it sounds soooooo good. just the right added response on the low end to add ooomph to most signals. not optimized for DX, but it really does bring a new dimension to many signals. I just bought another MS-4 and since I am partial to Alpine speakers, I am wondering about the experience of others that have found a great replacement for the MS-4.

73's

3644. DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 19:14:55 UTC
From: arsnf7z
Topic: 3644 Message: 3644

I am up against a real obstacle. I live on a sailboat. a large sailboat, but nonetheless, one that doesn't come with a 110 VAC source. my latest foray into restoring Drake equipment has left me with the harsh awareness that DC/AC inverters are horrendously noisey. in fact, they are useless. so much has is generated that I cannot use the Drakes on the boat. one partial solution, is to bypass the inverter on the boat, and generate 110 VAC with my Honda generator. it's better .. but now I have ignition noise, and still, RFI that is unacceptable. ok above 10 Mhz, but wipes out 80 and 40 meters.

I've been looking for a smallish, 600-1000 watt inverter that is relatively shielded and quiet. it occurred to me that those that work Field Day may have been up against this same problem. anyone discover a DC/AC inverter that is relatively noise-free on 4 Mhz?

yes, I know .. why the heck are you using tube rigs on a sailboat? like I mentioned previously, ham radio lacked lustre with the new rigs. no uncertainty! there was something missing, that I used to love when I used older equipment. same with electronic keyers. sure, I can send faster and more accurately with an iambic keyer, but I missed hearing a signal and being able to identify the station from the operator's fist (and clicks/chirp). so, I bought a new Vibroplex bug. talk about personality! I have a couple of Icoms on the boat, but ho-hum. I missed dipping plate-current and a real 'loading' control!

anyone?

73's

3645. RE: [DrakeRadio] DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 19:29:33 UTC
From: Bob Spooner
Topic: 3644 Message: 3645

I think what you need is something like a pure sine wave inverter. The stepped sine wave inverters generate RFI. See:

http://www.theinverterstore.com/the-inverter-store-category.php?cat=PSW

for some examples.

Do you use the backstay for an antenna?

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of arsnf7z
Sent: Friday, May 14, 2010 3:15 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] DC/AC converters ...

I am up against a real obstacle. I live on a sailboat. a large sailboat, but nonetheless, one that doesn't come with a 110 VAC source. my latest foray into restoring Drake equipment has left me with the harsh awareness that DC/AC inverters are horrendously noisey. in fact, they are useless. so much has is generated that I cannot use the Drakes on the boat. one partial solution, is to bypass the inverter on the boat, and generate 110 VAC with my Honda generator. it's better .. but now I have ignition noise, and still, RFI that is unacceptable. ok above 10 Mhz, but wipes out 80 and 40 meters.

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anyone?

73's

[Non-text portions of this message have been removed]

3646. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 19:31:24 UTC
From: mike
Topic: 3644 Message: 3646

Two thoughts:

1) Get another Honda generator (or similar) with a scrap engine. Replace it with a suitable DC motor & arrange feedback to the motor to maintain the 60Hz.

2) How about a 60Hz osc driving a modern Class-D amplifier? I believe they're super-efficient these days (& big, too).

Mike

--- In DrakeRadio@yahoogroups.com, "arsnf7z" <ars.nf7z@...> wrote:
>
> I am up against a real obstacle. I live on a sailboat. a large sailboat, but nonetheless, one that doesn't come with a 110 VAC source. my latest foray into restoring Drake equipment has left me with the harsh awareness that DC/AC inverters are horrendously noisey. in fact, they are useless. so much has is generated that I cannot use the Drakes on the boat. one partial solution, is to bypass the inverter on the boat, and generate 110 VAC with my Honda generator. it's better .. but now I have ignition noise, and still, RFI that is unacceptable. ok above 10 Mhz, but wipes out 80 and 40 meters.
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> anyone?
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> 73's
>

3647. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 19:42:46 UTC
From: toptyp19
Topic: 3644 Message: 3647

Daniel-

Here's the perfect solution! Check out how Thor Heyerdahl did it in
1947 on the Kon-Tiki. Here's the site:

http://en.wikipedia.org/wiki/Kon-Tiki

Scroll down to communications.

GL, Joe

--- In DrakeRadio@yahoogroups.com, "arsnf7z" <ars.nf7z@...> wrote:
>
> I am up against a real obstacle. I live on a sailboat. a large sailboat, but nonetheless, one that doesn't come with a 110 VAC source. my latest foray into restoring Drake equipment has left me with the harsh awareness that DC/AC inverters are horrendously noisey. in fact, they are useless. so much has is generated that I cannot use the Drakes on the boat. one partial solution, is to bypass the inverter on the boat, and generate 110 VAC with my Honda generator. it's better .. but now I have ignition noise, and still, RFI that is unacceptable. ok above 10 Mhz, but wipes out 80 and 40 meters.
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> anyone?
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> 73's
>

3648. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 20:19:49 UTC
From: arsnf7z
Topic: 3644 Message: 3648

my wife loves me dearly .. but I am afraid that if I suggested she hand-crank a generator during my QSO's there would be serious problems with my marriage!

yes, it has to be a pure sine-wave generator. anything else will make the iron in the transformers quiver till they fail. the marine inverters are pure-sine, and you have to pay extra for a pure-sine small inverter. no problem .. I just want to fine one that is adequately shielded and doesn't emit DC-to-Daylight hash. so far, it's no go. the Drakes, my R4C and TR4C outperform my IC-7000 (except for selectivity) but to power them, I need to generate 110 VAC and the insuing noise blankets 80-meters. dang!

so, my search is for a very low noise inverter, pure-sinewave, and relatively cheap. I have Xantrex inverters on the boat, but I need something more refined in terms of RFI. the Honda generator comes close, and I might be able to replace the spark-plug with a resistor-plug and do some shielding. I was hoping to find Field Day addicts that have been up against the same problems and have found a solution.

still looking for a MN-2000 and L4-B ... who isn't!

73's

3649. Re: [DrakeRadio] DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 20:31:08 UTC
From: Gary Woods
Topic: 3644 Message: 3649

On Fri, 14 May 2010 19:14:55 -0000, you wrote:

>I am up against a real obstacle. I live on a sailboat. a large sailboat, but nonetheless, one that doesn't come with a 110 VAC source. my latest foray into restoring Drake equipment has left me with the harsh awareness that DC/AC inverters are horrendously noisey. in fact, they are useless. so much has is generated that I cannot use the Drakes on the boat.
Can't you replace the Drake power supply with a DC-DC one made for mobile
use? Then, all you need is a hefty 12V battery or three, perhaps even
solar charged.

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

3650. Re: [DrakeRadio] Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 20:39:29 UTC
From: Garey Barrell
Topic: 3644 Message: 3650

Daniel -

Have you considered the Drake DC-4? It's designed to power the TR-4C or
T-4XC plus a 130 VAC outlet for an R-4C.

There's one on eBay right now with at $0.99 with no bids.

Not gonna drive the L-4B tho.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> my wife loves me dearly .. but I am afraid that if I suggested she hand-crank a generator during my QSO's there would be serious problems with my marriage!
>
> yes, it has to be a pure sine-wave generator. anything else will make the iron in the transformers quiver till they fail. the marine inverters are pure-sine, and you have to pay extra for a pure-sine small inverter. no problem .. I just want to fine one that is adequately shielded and doesn't emit DC-to-Daylight hash. so far, it's no go. the Drakes, my R4C and TR4C outperform my IC-7000 (except for selectivity) but to power them, I need to generate 110 VAC and the insuing noise blankets 80-meters. dang!
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> so, my search is for a very low noise inverter, pure-sinewave, and relatively cheap. I have Xantrex inverters on the boat, but I need something more refined in terms of RFI. the Honda generator comes close, and I might be able to replace the spark-plug with a resistor-plug and do some shielding. I was hoping to find Field Day addicts that have been up against the same problems and have found a solution.
>
> still looking for a MN-2000 and L4-B ... who isn't!
>
> 73's
>
>

3651. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 20:41:28 UTC
From: arsnf7z
Topic: 3644 Message: 3651

Gary,

it's a very good suggestion. it won't power up the R4C, but I can easily craft a solution I suppose. and, I think the Drake DC/AC inverters are scarce and expensive. I use an isolated backstay, that helps hold my mast up, and a Icom AT-140 tuner. I use the Icom-7000 to tune the antenna, and then swap the antenna to the Drake. unfortunately, the noise generated by my means of generating 110 VAC almost blankets the receiver. boo hoo .. when I am in the marina, I have access to clean 110 VAC, but the noise generated from 1000 boats and the University of Washington Marine Science Lab .. is worse than my Honda generator.

73's

3652. Re: [DrakeRadio] Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 20:49:07 UTC
From: Garey Barrell
Topic: 3644 Message: 3652

Daniel -

YES, it will power the R-4C. Has a 115 VAC outlet at ~300 Hz for just
that purpose!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> Gary,
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>
> 73's
>
>

3653. FS: 100 kHz Calibrator Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 21:41:13 UTC
From: Bry Carling
Topic: 3653 Message: 3653

FOR SALE:

New 100 kHz calibrator crystals suitable for all ham equipment.
These are the standard hc13/u configuration - that is to say the
metal can, just like hc6/u only taller. Found throughout all classic
amateur radio equipment products. Sockets also available.

Available for $19.00 each plus shipping.

73 de AF4K, Brian

-~ø¤º°º¤ø~-"ßrÿ in FLÕRÎÐÁ"-~ø¤º°º¤ø~-

[Non-text portions of this message have been removed]

3654. FS: 100 kHz Cazlibrator Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-14 21:33:55 UTC
From: Bry Carling
Topic: 3654 Message: 3654

FOR SALE:

New 100 kHz calibrator crystals suitable for all ham equipment.
These are the standard hc13/u configuration - that is to say the
metal can, just like hc6/u only taller. Found throughout all classic
amateur radio equipment products. Sockets also available.

Available for $19.00 each plus shipping.

73 de AF4K, Brian

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[Non-text portions of this message have been removed]

3655. Re: [DrakeRadio] Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 01:18:28 UTC
From: William Houghton
Topic: 3644 Message: 3655

I've seen the DC-3s go for $20 on ebay a few times. I know a lcoal guy who had one for sale for $50, don't know if he still has it.

Bill

--- On Fri, 5/14/10, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: DC/AC converters ...
To: DrakeRadio@yahoogroups.com
Date: Friday, May 14, 2010, 1:49 PM

Daniel -

YES, it will power the R-4C. Has a 115 VAC outlet at ~300 Hz for just
that purpose!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> Gary,
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> it's a very good suggestion. it won't power up the R4C, but I can easily craft a solution I suppose. and, I think the Drake DC/AC inverters are scarce and expensive. I use an isolated backstay, that helps hold my mast up, and a Icom AT-140 tuner. I use the Icom-7000 to tune the antenna, and then swap the antenna to the Drake. unfortunately, the noise generated by my means of generating 110 VAC almost blankets the receiver. boo hoo .. when I am in the marina, I have access to clean 110 VAC, but the noise generated from 1000 boats and the University of Washington Marine Science Lab .. is worse than my Honda generator.
>
> 73's
>
>

[Non-text portions of this message have been removed]

3656. DRAKE TR4-C Potentiometer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 09:00:13 UTC
From: radiomilitary
Topic: 3656 Message: 3656

Hi, Hall

The potentiometer (RCVR / RF + SW) of my TR4-c is not ok.
help me, which are the characteristics of the 2 sections, on schematic
the value are (For RF GAIN 10K and RCVR GAIN 500K)
Question : Linear o Logarit.

Where I can acquire something of similar or to assemble an different model.
thank you for all
Frank

3657. Re: [DrakeRadio] DRAKE TR4-C Potentiometer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 13:47:03 UTC
From: Garey Barrell
Topic: 3656 Message: 3657

Frank -

The 500k rear section is an "Audio" (log) taper and the 10k front
section is "Linear". The switch is rated at 6 A @ 120 VAC.

Aside from a replacement from a "donor" unit, the best chance is to find
single potentiometers from the original manufacturer (CTS in most cases)
and 'transplant' just the resistive wafers to the old mechanism.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

radiomilitary wrote:
> Hi, Hall
>
> The potentiometer (RCVR / RF + SW) of my TR4-c is not ok.
> help me, which are the characteristics of the 2 sections, on schematic
> the value are (For RF GAIN 10K and RCVR GAIN 500K)
> Question : Linear o Logarit.
> ---
> Where I can acquire something of similar or to assemble an different model.
> thank you for all
> Frank
>
>
>

3658. Re: DRAKE TR4-C Potentiometer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 14:56:40 UTC
From: radiomilitary
Topic: 3656 Message: 3658

Thanks You , For information,
who in USA that sells potenziometer CTS , in Italy does not have
Magazine with CTS Material
Tnx Frank

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Frank -
>
> The 500k rear section is an "Audio" (log) taper and the 10k front
> section is "Linear". The switch is rated at 6 A @ 120 VAC.
>
> Aside from a replacement from a "donor" unit, the best chance is to find
> single potentiometers from the original manufacturer (CTS in most cases)
> and 'transplant' just the resistive wafers to the old mechanism.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> radiomilitary wrote:
> > Hi, Hall
> >
> > The potentiometer (RCVR / RF + SW) of my TR4-c is not ok.
> > help me, which are the characteristics of the 2 sections, on schematic
> > the value are (For RF GAIN 10K and RCVR GAIN 500K)
> > Question : Linear o Logarit.
> > --
> > Where I can acquire something of similar or to assemble an different model.
> > thank you for all
> > Frank
> >
> >
> >
>

3659. Re: [DrakeRadio] Re: DRAKE TR4-C Potentiometer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 15:27:36 UTC
From: Garey Barrell
Topic: 3656 Message: 3659

Frank -

Fast Elettronica Italiana, S.p.A.
Via Rovetta 35
20127 Milan
Italy
Tel: 39-0-2-2610141
Fax: 39-0-2-2822287
E-mail: sales@... <mailto:sales@...>

is shown as a stocking distributor for CTS products. I would call and speak to an applications engineer, and explain your problem.

You should check the potentiometer in your radio to be sure it IS CTS, most are, but not all.

It would also be worthwhile to post a request on the list(s) to see if perhaps someone has one from a junker radio.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

radiomilitary wrote:
> Thanks You , For information,
> who in USA that sells potenziometer CTS , in Italy does not have
> Magazine with CTS Material
> Tnx Frank
>
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Frank -
>>
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>> section is "Linear". The switch is rated at 6 A @ 120 VAC.
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>> Aside from a replacement from a "donor" unit, the best chance is to find
>> single potentiometers from the original manufacturer (CTS in most cases)
>> and 'transplant' just the resistive wafers to the old mechanism.
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>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> <www.k4oah.com>
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>>
>> radiomilitary wrote:
>>
>>> Hi, Hall
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>>> The potentiometer (RCVR / RF + SW) of my TR4-c is not ok.
>>> help me, which are the characteristics of the 2 sections, on schematic
>>> the value are (For RF GAIN 10K and RCVR GAIN 500K)
>>> Question : Linear o Logarit.
>>> ---
>>> Where I can acquire something of similar or to assemble an different model.
>>> thank you for all
>>> Frank
>>>

3660. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 22:15:17 UTC
From: William Houghton
Topic: 3626 Message: 3660

We could mechanically couple the tuning shaft to a DC motor fitted with an optical shaft encoder such as the HP HEDS series. Connect that to an LM629 PID controller (provides both PWM drive and encoder position sensing). Connect that to a microcontroller. Buffer the PTO output and feed that to a counter of the MCU to measure the PTO frequency. Add a display and keypad. Write some embedded firmware and you could probably get tuning that matches today's rigs.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, May 14, 2010 10:03:10 AM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Daniel -

Absolutely! Please don't let the "humor" here put you off..... I guess for some it's a little too pointed.

I like the "stepper-motor and belt drive" idea.! There was a similar approach taken many years ago to scan the six meter band on a Collins 75A-4 with a converter in front of it. I believe it may even have been a cover article! Would certainly touch a nerve with the Collins guys today, although it was considered "innovative" at the time.... :-)

I'm looking forward to your next topic!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> funny -
>
> there is a difference between using a tool, and suggesting that the tool could be refined. I was really just contributing a post/topic to liven up an abeyant forum. I don't hold such an allegiance to Drake, to not recognize and suggest areas of improvement. I still think the tuning rate is slightly too fast for a receiver without some form of RIT.
>
> no problem though, hearing from others with a differing opinion. one persons complaint is anothers feature ... if I want to operate exactly on 14.175000 Mhz I'd use my Agilent 33220A Arbitrary Waveform Generator as the Injection source. or use my Icom :)
>
> or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do

it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.
>
> just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks<grin>
>
> 73's
>
>

[Non-text portions of this message have been removed]

3661. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 22:22:12 UTC
From: Garey Barrell
Topic: 3626 Message: 3661

Bill -

Might be a product opportunity there Bill. People that purchase
"digital dials" with resolution, (not accuracy!,) obviously need a way
to set their station on EXACTLY a 10kHz frequency.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
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>
> Bill
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, May 14, 2010 10:03:10 AM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
> Daniel -
>
> Absolutely! Please don't let the "humor" here put you off..... I
> guess for some it's a little too pointed.
>
> I like the "stepper-motor and belt drive" idea.! There was a similar
> approach taken many years ago to scan the six meter band on a Collins
> 75A-4 with a converter in front of it. I believe it may even have been
> a cover article! Would certainly touch a nerve with the Collins guys
> today, although it was considered "innovative" at the time.... :-)
>
> I'm looking forward to your next topic!
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> 73, Garey - K4OAH

> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
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> arsnf7z wrote:
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>> no problem though, hearing from others with a differing opinion. one persons complaint is anothers feature ... if I want to operate exactly on 14.175000 Mhz I'd use my Agilent 33220A Arbitrary Waveform Generator as the Injection source. or use my Icom :)
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>> or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.
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>> just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks<grin>
>>
>> 73's
>>

3662. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 22:34:24 UTC
From: William Houghton
Topic: 3626 Message: 3662

My background is in microcontroller applications. I've done a lot of PID motor control using the LM629 in the stage lighting industry, mostly for major rock-n-roll groups. For this application we could probably eliminate the PID portion of it. Since I was laid off a few weeks ago, I probably have time to try it !

As a product opportunity? How many people buy an old tube rig and expect to be able to tune the frequency like a modern radio ? I do have to say that from what I have heard on the bands, people seem to be a lot pickier about being exactly on frequency these days. (I think the real reason for RIT was for round tables on SSB).

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, May 15, 2010 3:22:12 PM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Bill -

Might be a product opportunity there Bill. People that purchase
"digital dials" with resolution, (not accuracy!,) obviously need a way
to set their station on EXACTLY a 10kHz frequency.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
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>
> Bill
>
>
>
>
> ---
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, May 14, 2010 10:03:10 AM

> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
> Daniel -
>
> Absolutely! Please don't let the "humor" here put you off..... I
> guess for some it's a little too pointed.
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> 73, Garey - K4OAH
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> arsnf7z wrote:
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>>
>> 73's
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[Non-text portions of this message have been removed]

3663. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 23:04:11 UTC
From: Garey Barrell
Topic: 3626 Message: 3663

Bill -

Just ask yourself "how many 'digital dials' have been sold for the old radios"? !?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> My background is in microcontroller applications. I've done a lot of PID motor control using the LM629 in the stage lighting industry, mostly for major rock-n-roll groups. For this application we could probably eliminate the PID portion of it. Since I was laid off a few weeks ago, I probably have time to try it !
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> Bill
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, May 15, 2010 3:22:12 PM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
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>
> Bill -
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> 73, Garey - K4OAH
> Glen Allen, VA
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>> Bill
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>> Daniel -
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>> arsnf7z wrote:
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>>> or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.
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>>> just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks<grin>
>>>
>>> 73's
>>>

3664. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-15 23:29:42 UTC
From: William Houghton
Topic: 3626 Message: 3664

""how many 'digital dials' have been sold for the old
radios"? !?"

I actually have no idea at all.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, May 15, 2010 4:04:11 PM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Bill -

Just ask yourself "how many 'digital dials' have been sold for the old
radios"? !?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> My background is in microcontroller applications. I've done a lot of PID motor control using the LM629 in the stage lighting industry, mostly for major rock-n-roll groups. For this application we could probably eliminate the PID portion of it. Since I was laid off a few weeks ago, I probably have time to try it !
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> As a product opportunity? How many people buy an old tube rig and expect to be able to tune the frequency like a modern radio ? I do have to say that from what I have heard on the bands, people seem to be a lot pickier about being exactly on frequency these days. (I think the real reason for RIT was for round tables on SSB).
>
> Bill
>
>
>
> ---
> From: Garey Barrell<k4oah@mindspring.com>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, May 15, 2010 3:22:12 PM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
> Bill -

>
> Might be a product opportunity there Bill. People that purchase
> "digital dials" with resolution, (not accuracy!,) obviously need a way
> to set their station on EXACTLY a 10kHz frequency.
>
> 73, Garey - K4OAH
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> William Houghton wrote:
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>> We could mechanically couple the tuning shaft to a DC motor fitted with an optical shaft encoder such as the HP HEDS series. Connect that to an LM629 PID controller (provides both PWM drive and encoder position sensing). Connect that to a microcontroller. Buffer the PTO output and feed that to a counter of the MCU to measure the PTO frequency. Add a display and keypad. Write some embedded firmware and you could probably get tuning that matches today's rigs.
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>> Bill
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>> From: Garey Barrell<k4oah@mindspring.com>
>> To: DrakeRadio@yahoogroups.com
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>> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
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>> Daniel -
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>> Absolutely! Please don't let the "humor" here put you off..... I
>> guess for some it's a little too pointed.
>>
>> I like the "stepper-motor and belt drive" idea.! There was a similar
>> approach taken many years ago to scan the six meter band on a Collins
>> 75A-4 with a converter in front of it. I believe it may even have been
>> a cover article! Would certainly touch a nerve with the Collins guys
>> today, although it was considered "innovative" at the time.... :-)
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>> I'm looking forward to your next topic!
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>> arsnf7z wrote:
>>
>>
>>> funny -
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>>> there is a difference between using a tool, and suggesting that the tool could be refined. I was really just contributing a post/topic to liven up an abeyant forum. I don't hold such an allegiance to Drake, to not recognize and suggest areas of improvement. I still think the tuning rate is slightly too fast for a receiver without some form of RIT.
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>>> no problem though, hearing from others with a differing opinion. one persons complaint is anothers feature ... if I want to operate exactly on 14.175000 Mhz I'd use my Agilent 33220A Arbitrary Waveform Generator as the Injection source. or use my Icom :)
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>>> or possibly, I could build a stepper-motor and belt drive to the main tuning knob and do it 'old tech'. or maybe my tuning 'touch' is sub-par and I can take a workshop.
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>>> just a bit of levity ... like I said, the forum was quiescent. my next topic will be critical of the RCA phono connectors used or the 'less-than-optimum' product-detectors. there is room for improvements. good topics for a forum about Drake radios methinks<grin>
>>>
>>> 73's
>>>

[Non-text portions of this message have been removed]

3665. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 00:25:45 UTC
From: Richard Knoppow
Topic: 3626 Message: 3665

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, May 15, 2010 4:04 PM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

> Bill -
>
> Just ask yourself "how many 'digital dials' have been sold
> for the old
> radios"? !?
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>

OK, since we are going all out... I suppose it would
be possible to modifiy a Drake transmitter and receiver to
work from an external frequency synthesizer. For maximum
stability and accuracy the synthesizer should be locked to a
GPS satellite or, perhaps, a local atomic standard. All this
is not quite as far-fetched as it might seem.
OTOH, I suspect that if one knew how the PTO's were set
up at the factory it would be possible to improve the
accuracy of the dials by choosing the various fixed trimmer
or padder caps correctly. I wonder if anyone has tried this,
I am not quite curious enough to have at it.
--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3666. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 02:32:52 UTC
From: Garey Barrell
Topic: 3626 Message: 3666

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Saturday, May 15, 2010 4:04 PM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
>
>> Bill -
>>
>> Just ask yourself "how many 'digital dials' have been sold
>> for the old
>> radios"? !?
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>> 73, Garey - K4OAH
>> Glen Allen, VA
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> OTOH, I suspect that if one knew how the PTO's were set
> up at the factory it would be possible to improve the
> accuracy of the dials by choosing the various fixed trimmer
> or padder caps correctly. I wonder if anyone has tried this,
> I am not quite curious enough to have at it.
>
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There were several "ladies" at Drake who did the linearization and temperature compensation on all the PTOs. They were the ONLY ones who knew how to do it! I believe it was Bill Frost who told me that they would sit and talk about their Grandchildren and wave their hands over PTOs all day. There are NO trimmers, only selected ceramic caps, about 3-6 of them in various PTOs. If you open one up, there are caps in some places, none in others, and some tapped halfway up a bus-wire lead. I don't know of anyone who has made one "better"! :-) I have changed

FETs in a couple with no apparent effect on either linearity or tempco, so the compensation is probably almost all coil dependent. I also heard that the coils were wound, coated and baked for several hours prior to assembly.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3667. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 02:51:24 UTC
From: Jim Shorney
Topic: 3626 Message: 3667

On Sat, 15 May 2010 19:04:11 -0400, Garey Barrell wrote:

>Just ask yourself "how many 'digital dials' have been sold for the old
>radios"? !?

Enough that there are probably at least three (that I know of) fellows making
add-on DDS VFO units for sale to hams.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3668. Crystals for 12 and17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 02:59:56 UTC
From: Joe
Topic: 3668 Message: 3668

Who has the best price on crystals for the B line Drakes? I need a set for 12 and 17 meters.

Joe Wolfe
WA6RKN
Reno, Nevada

3669. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 03:01:57 UTC
From: Garey Barrell
Topic: 3626 Message: 3669

I don't either, but there seems to be "several" suppliers addressing the market, so I would say in the hundreds at least, probably thousands overall.??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> ""how many 'digital dials' have been sold for the old
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> I actually have no idea at all.
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> Bill
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>
>
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> From: Garey Barrell<k4oah@...>
> To:DrakeRadio@yahoogroups.com
> Sent: Sat, May 15, 2010 4:04:11 PM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
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>> Bill
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>> To:DrakeRadio@yahoogroups.com
>> Sent: Sat, May 15, 2010 3:22:12 PM
>> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
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>>> Bill
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>>>
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>>> _____
>>> From: Garey Barrell<k4oah@...>
>>> To:DrakeRadio@yahoogroups.com
>>> Sent: Fri, May 14, 2010 10:03:10 AM
>>> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
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>>>

>>> Daniel -
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>>> Absolutely! Please don't let the "humor" here put you off..... I
>>> guess for some it's a little too pointed.
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>>> I like the "stepper-motor and belt drive" idea.! There was a similar
>>> approach taken many years ago to scan the six meter band on a Collins
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>>>> 73's
>>>>
>

3670. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 04:15:10 UTC
From: Richard Knoppow
Topic: 3626 Message: 3670

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, May 15, 2010 7:32 PM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From: "Garey Barrell"<k4oah@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Saturday, May 15, 2010 4:04 PM
>> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>>
>>
>>
>>> Bill -
>>>
>>> Just ask yourself "how many 'digital dials' have been
>>> sold
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>>> 73, Garey - K4OAH
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>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>>>
>>>
>>>
>> OK, since we are going all out... I suppose it
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>> be possible to modifiy a Drake transmitter and receiver
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>> work from an external frequency synthesizer. For maximum
>> stability and accuracy the synthesizer should be locked
>> to a
>> GPS satellite or, perhaps, a local atomic standard. All
>> this
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>> OTOH, I suspect that if one knew how the PTO's were
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>> trimmer
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> me that they
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I have heard two similar stories: One is about the
eight gang tuning capacitors used in the Hammarlund
SP-600-JX. The stators are held on by three clamp screws and
must be aligned to the rotor. The story is that there were a
couple of three ladies at the plant who adjusted all of
them. AFAIK, no procedure exists but the requirements are
such that they can be aligned mechanically. BTW, NEVER bend
any capacitor plates on these things.
The other story is aout a small group of ladies who
loaded film packs at Kodak. Film packs have been gone long
enough now that I imagine many people don't know what they
were. A film pack was a package of anywhere up to eighteen
sheets of film in a holder that fit in a simple adaptor for

cameras that were designed for sheet film or glass plates.
The films were changed by pulling a paper tab on the side.
After exposing the picture the tab for that sheet was pulled
out which pulled the sheet around to the back of the holder
leaving a fresh sheet on top. The film was very thin similar
to roll film. I don't remember when the last ones were made,
I think about twenty-five years ago. One story is that the
last of the ladies retired and no one was left who knew how
to assemble them. Of course the truth is probably more
likely that sales fell off so the product was discontinued.
Setting up a Drake PTO sounds like a not impossible
but likely very tedious job. Adjusting temperature
compensation would be a bear since the things would have to
be tested over whatever temperature range is required and
some sort of record kept of the result. The PTOs in my Drake
4B twins do not seem to drift at all so evidently this job
was done well.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3671. Re: [DrakeRadio] Re: Drake PTO tuning rate ..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 04:23:12 UTC
From: Rotten Robbie
Topic: 3626 Message: 3671

In 1966 I had a business trip to Collin's in Cedar Rapids. While I was there
I was introduced to the tech that aligned ALL Collin's PTOs. He was blind.
He used a wheel on the shaft with holes in he could feel for positioning. He
listened to the beat note with a reference oscillator. He adjusted the
tracking by tweaking the coil in each position of the wheel.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, May 15, 2010 9:15 PM
Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..

>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Saturday, May 15, 2010 7:32 PM
> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>
>
>>
>> Richard Knoppow wrote:
>>> ----- Original Message -----
>>> From: "Garey Barrell"<k4oah@...>
>>> To:<DrakeRadio@yahoogroups.com>
>>> Sent: Saturday, May 15, 2010 4:04 PM
>>> Subject: Re: [DrakeRadio] Re: Drake PTO tuning rate ..
>>>
>>>
>>>
>>>> Bill -
>>>>
>>>> Just ask yourself "how many 'digital dials' have been
>>>> sold
>>>> for the old
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>>>> 73, Garey - K4OAH
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>>> OK, since we are going all out... I suppose it
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>>> stability and accuracy the synthesizer should be locked
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> cameras that were designed for sheet film or glass plates.
> The films were changed by pulling a paper tab on the side.
> After exposing the picture the tab for that sheet was pulled
> out which pulled the sheet around to the back of the holder
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> to roll film. I don't remember when the last ones were made,
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> be tested over whatever temperature range is required and
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> was done well.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

3672. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 20:36:57 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3672

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3673. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 21:08:07 UTC
From: Tim Randa
Topic: 206 Message: 3673

Ok Don, I guess I'll jump in feet first. This is Tim in Wichita, Ks. I recently acquired a set of B-Line Twins and have been having fun despite the band conditions. I have a set of inj cables in route that I should receive Monday and hope to give an alignment to the receiver a try. One of my question is...is the information in the manual enough to complete a good alignment or is there info in a service manual I should also have? I gotten some good emails and advice from some members on this group already and look forward to reading the list in the future.

I assume there is a Drake users net...freq and time would be good to know.

73 to all de Tim K?FL

DrakeRadio@yahoogroups.com wrote:
>
>
> All group memebers are welcome to post here on this message board, so
> for those that have questions please don't be shy and for those that
> have answers, please feel free to give advice to others (what you put
> into this group you will get back so participate if you have a
> chance). Although we would like to focus on Drake Radio subject matter
> any Ham Radio subject matter is allowed. This includes any QST's of
> events or hamfests, especially if Drake radios are included
>
> For those of you that have not introduced yourself we welcome you to
> do so and please feel free to upload your station pictures to the
> photos section of our groups home page, as well as links to Drake
> information or your homepage.
> Thanks to all members for your particapation.
>
> Don
> KE7FFM
>
>

3674. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 21:14:07 UTC
From: Dave And Merrijoy
Topic: 206 Message: 3674

I'm generally a lurker. Licensed since 1961 (50 years this next April), I
have
enjoyed many different aspects of ham radio.
My best contact thus far is the Amundsen-Scott South Pole Station in 2001.
I just got the winning bid of an original Drake TR-4 manual off eBay. It
should
be here soon. I'll have the manual; next I'm looking to get a really nice
TR-4
(again) as soon as I can part with some equipment.
I have to sell some because SS checks don't go too far, eh?
Dave w9ocm

>
> DrakeRadio@yahoogroups.com wrote:
>>
>>
>> All group memebers are welcome to post here on this message board, so
>> for those that have questions please don't be shy and for those that
>> have answers, please feel free to give advice to others (what you put
>> into this group you will get back so participate if you have a
>> chance). Although we would like to focus on Drake Radio subject matter
>> any Ham Radio subject matter is allowed. This includes any QST's of
>> events or hamfests, especially if Drake radios are included
>>
>> For those of you that have not introduced yourself we welcome you to
>> do so and please feel free to upload your station pictures to the
>> photos section of our groups home page, as well as links to Drake
>> information or your homepage.
>> Thanks to all members for your particapation.
>>
>> Don
>> KE7FFM
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3675. Re: [DrakeRadio] Crystals for 12 and17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-16 23:03:21 UTC
From: Bry Carling
Topic: 3668 Message: 3675

http://www.af4k.com

(of course!!)

On 15 May 2010 at 19:59, Joe wrote:

> Who has the best price on crystals for the B line Drakes? I need a
> set for
> 12 and 17 meters.
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3676. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-17 00:24:53 UTC
From: John
Topic: 3644 Message: 3676

HI All

I have this exact problem as well, I want to run my R-4A from a car battery.
I have been looking at the DC-4 in detail.
Being here in Australia they are rare as hens teeth. So I can not possibly test one.

Can anyone in this group provide first hand experience on using the 110V 300Hz output from the DC-4.

There is a few possible problems that I can see.
It is a square wave inverter, and as we all know, square wave have harmonics of every frequency in them, So just by using then within the inverter will cause RFI. This is why CPU controlled inverters make SO much RFI, it has little to do with the sinewave output.

300Hz is a fair bit higher than 60Hz, the iron in the transformer is made for 60Hz not 300 so it should get quite hot.

I have done a basic design of a NON-CPU sine wave inverter that uses a nice big transformer.
If uses an accurate analog sinewave oscillator that is than amplified, sent into the transformer and out comes the 240Vac Which is what we use here in VKland.
It works, but I need to design a feedback control so the output is better regulated.
At the moment the output voltage varies depending on the load.
The good news is, completely NO RFI except at 50Hz and it harmonics below 1000Hz

Is there anyone in this group that is skilled in analog power supply feedback design as I have no real idea what I am doing.

Regards John
VK2XCQ

--- In DrakeRadio@yahoogroups.com, William Houghton <rdrbill@...> wrote:
>
> I've seen the DC-3s go for $20 on ebay a few times. I know a lcoal guy who had one for sale for $50, don't know if he still has it.
> Â
> Bill
>
>
> --- On Fri, 5/14/10, Garey Barrell <k4oah@...> wrote:
>
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Re: DC/AC converters ...
> To: DrakeRadio@yahoogroups.com
> Date: Friday, May 14, 2010, 1:49 PM
>

>
> Â
>
>
>
> Daniel -
>
> YES, it will power the R-4C. Has a 115 VAC outlet at ~300 Hz for just
> that purpose!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> arsnf7z wrote:
> > Gary,
> >
> > it's a very good suggestion. it won't power up the R4C, but I can easily craft a solution I suppose. and, I think the Drake DC/AC inverters are scarce and expensive. I use an isolated backstay, that helps hold my mast up, and a Icom AT-140 tuner. I use the Icom-7000 to tune the antenna, and then swap the antenna to the Drake. unfortunately, the noise generated by my means of generating 110 VAC almost blankets the receiver. boo hoo .. when I am in the marina, I have access to clean 110 VAC, but the noise generated from 1000 boats and the University of Washington Marine Science Lab .. is worse than my Honda generator.
> >
> > 73's
> >
> >
>
>
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>
>
> [Non-text portions of this message have been removed]
>

3677. Re: [DrakeRadio] File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-17 02:52:18 UTC
From: Garey Barrell
Topic: 206 Message: 3677

Tim -

The information in the owner's manual is all you need to properly align the B-Line. My suggestion would be to ignore the 'alignment load' use, and just go through the adjustments several times on each transformer. I would also advise to NOT attempt the filter match item 8. regarding the wires twisted around transformer pins. This adjustment does not change, UNLESS someone has been fixing on it. This procedure can be a real bear, especially the first time or two you try to do it and is best left alone.

It is best to do the final adjustment of the INJ trimmers in both the Rx and Tx with the two units cabled together, using the correct INJ cable.

If you find repair is needed, you might take a look at my CD for the B-Line. It is a tremendous time and frustration saver if you work on these radios.

The Drake Technical net is on Sunday at 1600 EDT on 7.238 kHz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Tim Randa wrote:
> Ok Don, I guess I'll jump in feet first. This is Tim in Wichita, Ks. I
> recently acquired a set of B-Line Twins and have been having fun despite
> the band conditions. I have a set of inj cables in route that I should
> receive Monday and hope to give an alignment to the receiver a try. One
> of my question is...is the information in the manual enough to complete
> a good alignment or is there info in a service manual I should also
> have? I gotten some good emails and advice from some members on this
> group already and look forward to reading the list in the future.
>
> I assume there is a Drake users net...freq and time would be good to know.
>
> 73 to all de Tim K?FL
>
>

3678. Re: [DrakeRadio] Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-17 02:58:22 UTC
From: Garey Barrell
Topic: 3644 Message: 3678

John -

The DC-4 works just fine. The 'square waves' are smoothed quite well by
the iron and filter caps in the supply.

60 Hz transformer are MORE efficient and LESS lossy as the frequency
goes up. The receiver power transformer barely gets warm...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

John wrote:
> HI All
>
> I have this exact problem as well, I want to run my R-4A from a car battery.
> I have been looking at the DC-4 in detail.
> Being here in Australia they are rare as hens teeth. So I can not possibly test one.
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> Can anyone in this group provide first hand experience on using the 110V 300Hz output
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CPU controlled inverters make SO much RFI, it has little to do with the sinewave output.
>
> 300Hz is a fair bit higher than 60Hz, the iron in the transformer is made for 60Hz not
300 so it should get quite hot.
>
> I have done a basic design of a NON-CPU sine wave inverter that uses a nice big
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> If uses an accurate analog sinewave oscillator that is than amplified, sent into the
transformer and out comes the 240Vac Which is what we use here in VKland.
> It works, but I need to design a feedback control so the output is better regulated.
> At the moment the output voltage varies depending on the load.
> The good news is, completely NO RFI except at 50Hz and it harmonics below 1000Hz
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> Is there anyone in this group that is skilled in analog power supply feedback design as I
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> Regards John
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>> Bill
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>> Subject: Re: [DrakeRadio] Re: DC/AC converters ...
>> To: DrakeRadio@yahoogroups.com
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>> Daniel -
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>> YES, it will power the R-4C. Has a 115 VAC outlet at ~300 Hz for just
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>>> Gary,
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>>>
>>> 73's
>>>
>>>
>>>
>>

>>
>

3679. Re: DC/AC converters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-17 13:09:07 UTC
From: arsnf7z
Topic: 3644 Message: 3679

it certainly seems that the DC-4 would solve my problems. perfectly! obviously, the assumption is that it is rather noise free (after all, it was designed for this application), and that the R4C works well with the 110 VAC outlet (also designed for this application). I'm sure everyone know this, but the R4 series receivers do NOT like modified sine-wave inverters. I inadvertanly used one and the transformer was not happy before I could dive for the on/off switch! the DC-4 should work well.

now, where to find one? anyone have one for sale?

73's

NF7Z, daniel

3680. substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-18 06:03:47 UTC
From: wa6neq
Topic: 3680 Message: 3680

Has anyone had trouble when replacing a 6EV7 with a 6FQ7? I have one 6EV7 and when I use it in either my TR-3 or TR-4C it works fine. However, when replaced with any one of the six 6CG7/6FQ7 tubes I have on hand, the transmitter becomes keyed as soon as the 6FQ7 warms up. VOX is set to min and anti-vox set to max.

Has anyone seen this problem before?

thanks,

Bill

3681. Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-18 13:05:09 UTC
From: Garey Barrell
Topic: 3680 Message: 3681

Bill -

I've never used a 6FQ7, the 6EV7 is almost always cheaper!. But if you have them on hand..... Another story.

The 6EV7 was designed as a relay driver, while the 6FQ7 was designed as a Class A amplifier.

The only thing I can think of is that by the time Drake was using the 6FQ7, (because they could no longer get the 6EV7 in production quantities,) they had also dumped the 15k relay because of unreliability. Unless your TR-3 relay has been replaced, it's the 15k version, and the TR-4C could be either, depending upon serial number. When the 2.5k relay was used, a 1.5k resistor was installed in series with the relay, and this is the only version that used the 6FQ7 from the factory.

So. The easy answer is to get a 6EV7, which will probably last the rest of the life of the transceivers. If your TR-4C has the 2.5k relay, does it have the 1.5k resistor in series (usually installed across the tube socket)??

Otherwise, I'd check the voltages on the 6EV7 and 6FQ7 to see what's happening.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

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>
> Has anyone seen this problem before?
>
> thanks,
>
> Bill
>

3682. Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-18 21:30:58 UTC
From: William Houghton
Topic: 3680 Message: 3682

Garey,

I haven't looked at either relay yet. I looked online and saw the 6FQ7 as a substitute for the 6EV7. I did look at the datasheets for the tubes a little while ago.

The voltage charts for the TR-3 show a 75V drop in plate voltage between receive and xmit for the plate that connects to the relay. If it is 15K, then the current through the relay is 5ma when operating. The voltage charts say that the grid voltage is -6V in receive and -0.5V when transmitting.

If you apply a 15K load line to the curves for the 6FQ7, with an open circuit plate voltage of 250V, a -6V on the grid will give you about 6ma of plate current, enough to close the relay.

I'll measure it later this evening.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, May 18, 2010 6:05:09 AM
Subject: Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Bill -

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The 6EV7 was designed as a relay driver, while the 6FQ7 was designed as a Class A amplifier.

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> thanks,
>
> Bill
>

[Non-text portions of this message have been removed]

3683. Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-18 22:05:05 UTC
From: Garey Barrell
Topic: 3680 Message: 3683

Bill -

The 6EV7 curves show the -6V bias line at 0 mA at 250V, while the 6FQ7 with -6V bias doesn't reach 0 until less than 100V.

The TR-4C schematic that shows the 6FQ7 has R143 at 330k v. 680k, and R142 is 1M v. 68k.

The voltage chart says -9V for the receive voltage!

So it appears that the 6FQ7 is NOT a direct sub in the earlier TR-(any) transceivers.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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William Houghton wrote:
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>
> I'll measure it later this evening.
>
> Bill
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>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, May 18, 2010 6:05:09 AM
> Subject: Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7
>
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> a Class A amplifier.
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> 6FQ7, (because they could no longer get the 6EV7 in production
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> it have the 1.5k resistor in series (usually installed across the tube
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>> Bill
>

3684. Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-18 22:41:55 UTC
From: William Houghton
Topic: 3680 Message: 3684

Garey -

I think we are in agreement. In more than one place on the web, I saw the 6FQ7 as a sub for the 6EV7. Just goes to show that "subs" don't always work in all circuits.

I'll just have to find another 6EV7. I'll keep a few of my 6CG7/6FQ7 tubes in case I get a later Drake radio that uses them. At least we now know for the next ham who stumbles across this issue.

Bill

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Tue, May 18, 2010 3:05:05 PM
Subject: Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Bill -

The 6EV7 curves show the -6V bias line at 0 mA at 250V, while the 6FQ7 with -6V bias doesn't reach 0 until less than 100V.

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>> Bill
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[Non-text portions of this message have been removed]

3685. Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-19 01:13:57 UTC
From: Richard Knoppow
Topic: 3680 Message: 3685

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, May 18, 2010 3:41 PM
Subject: Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Garey -

I think we are in agreement. In more than one place on the
web, I saw the 6FQ7 as a sub for the 6EV7. Just goes to show
that "subs" don't always work in all circuits.

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them. At least we now know for the next ham who stumbles
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Bill

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To: DrakeRadio@yahoogroups.com
Sent: Tue, May 18, 2010 3:05:05 PM
Subject: Re: [DrakeRadio] substituting a 6FQ7 for a 6EV7

Bill -

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Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Sometimes tubes are listed as straight-across substitutes and sometimes only possible substitutes, the difference is not always made clear. For instance, there are ruggedized verssions of some tubes, the General Electric 5-Star series for instance, that are electrically and mechanically identical to the prototypes. They can be interchanged freely as long as the special long-life characteristics of the 5-Star type is not required. In some cases "ruggedized" tubes may have different heater characteristics which need to be taken into account. One can sometimes get away with substituting a "similar" tube, for instance using a 12AT7 in place of a 12AX7. Some circuits will tollerate the difference but many won't work properly or even at all with the wrong tube.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3686. a question for Drakesters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-19 13:49:24 UTC
From: arsnf7z
Topic: 3686 Message: 3686

I'll admit to having way too much fun refurbishing Drake equipment from a bygone era. so far, I've brought back to life a R4C, TR4C, and recently received a T4XC that is almost perfect except for someone with a shakey hand doing a modification. they added a jack for a phone-patch, and tapped over to the microphone jack through a resistor.

my question is about the mic jack, the coax cable running down to the 12AX7 preamp and a 47K resistor in series between the jack and the coax. currently, the resistor is 'flying' .. one end at the jack the other soldered to the coax. I want to bring things back to normal, and just wondering if that is how the original factory configuration wired it. there really isn't much else they could have done, but it isn't clear with the modification that was added. it appears to be a 1/8 watt 47K resistor in series to the input.

anyone familiar with the T4XC enough to remember how the factor wired it? my concern is that the 47K resistor was originally down at the tube socket, and the previous owner changed this to give better access for his phone-patch mod.

now, I still need to find a RV4C and a MN-2000. the L4B will have to wait until someone in the Pacific Northwest sells. FedEx shipping charges are killing me .. but it has been great fun to get these wonderful rigs running once again and putting them on the air.

73's

NF7Z, daniel

3687. Re: [DrakeRadio] a question for Drakesters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-19 14:23:32 UTC
From: Garey Barrell
Topic: 3686 Message: 3687

Daniel -

That is one of the few components that is NOT shown in my CD! :-)

Looking at the back of the MIC jack, the GND terminal is centered at the bottom (toward the chassis).

C109 is soldered to this terminal, with the other lead extending toward the front panel. R94 is soldered to the left-most terminal, and the other lead is connected to the "flying" lead of C109, forming a small triangle. The center conductor of the shielded wire is also connected to the common junction of these two components.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> I'll admit to having way too much fun refurbishing Drake equipment from a bygone era. so far, I've brought back to life a R4C, TR4C, and recently received a T4XC that is almost perfect except for someone with a shakey hand doing a modification. they added a jack for a phone-patch, and tapped over to the microphone jack through a resistor.
>
> my question is about the mic jack, the coax cable running down to the 12AX7 preamp and a 47K resistor in series between the jack and the coax. currently, the resistor is 'flying' .. one end at the jack the other soldered to the coax. I want to bring things back to normal, and just wondering if that is how the original factory configuration wired it. there really isn't much else they could have done, but it isn't clear with the modification that was added. it appears to be a 1/8 watt 47K resistor in series to the input.
>
> anyone familiar with the T4XC enough to remember how the factor wired it? my concern is that the 47K resistor was originally down at the tube socket, and the previous owner changed this to give better access for his phone-patch mod.
>
> now, I still need to find a RV4C and a MN-2000. the L4B will have to wait until someone in the Pacific Northwest sells. FedEx shipping charges are killing me .. but it has been great fun to get these wonderful rigs running once again and putting them on the air.
>
> 73's
>
> NF7Z, daniel
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>

3688. Re: a question for Drakesters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-19 14:48:26 UTC
From: arsnf7z
Topic: 3686 Message: 3688

thanks Garey. it looks to be an easy change to bring it back to factory normal. I do wish that people took more care with their soldering irons when they work on the jewels. way too much heat, with melted insulation and scarred coax jackets. not to mention solder splashes and flux residue. I suppose this might be an artifact of the age, when everyone used those massive Weller guns with 1/4" tips and high-wattage!

luckily, this was the only mod on the T4XC, though there must have been a problem with the oscillator board at some point in time, as they melted the wires resoldering them to the board. no problem cutting them back and soldering them correctly. I was also pleasantly surprised to find all the aux crystals loaded up for 160 and 10 meters.

the only other issue I am having is the observations from listeners that there are no lows from the Shure 444. this makes for a great DX signal, but I think these days the expectation is for a more rounded bottom-end, that the Shure can't provide. so, my next task is to find a microphone/preamp to yield a better response on AM, that doesn't go through the bandwidth limited SSB filters. anyone stumbled upon a combination that works well on AM?

73's

NF7Z, daniel

3689. Re: [DrakeRadio] Re: a question for Drakesters ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-19 17:48:31 UTC
From: Garey Barrell
Topic: 3686 Message: 3689

Daniel -

OK. I was on my way out to rehab this morning, so written in a bit of a rush! :-)

That network is at least in part an RF filter, so both components need to be right at the input. The cap is smaller than a bypass to avoid rolling off the top end of the audio too much. Drake claimed that the best microphone to use was one with a flat frequency response, as the "shaping" of the audio was done in the transmitter. The 444 has a rising peak starting at about 1200 Hz, rising sharply (+12 dB) at 3 kHz, then dropping back to zero dB at about 5 kHz. The low end is down 3 dB at about 250 Hz.

I like the E-V 644, which is relatively flat (+/- 3 dB from 200 to about 12 kHz) with the peak area between about 3 - 7 kHz. Unfortunately, Collins chose to use this microphone with the S-Line in some of their ads, so the price has been driven up considerably above similar mics.

Since you're working in that area anyway, you might want to try a 470 pF for C109 to tame down that peak. Of course voice characteristics can exacerbate peaks and valleys in microphone response curves too.

Art, N4JK, has an interesting page on the D-104 at

<http://members.cox.net/n4jk/d104.htm>

If you want to tailor a D-104, the article by Alan, W2AEW's circuit is here.

<http://www.qsl.net/w2aew/myd104amp.html>

The D-104, "barefoot" does a pretty good job on the Drake transmitters, with a series resistor in the plug to adjust the low end as necessary to accomodate your voice characteristic / preference.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> thanks Garey. it looks to be an easy change to bring it back to factory normal. I do wish that people took more care with their soldering irons when they work on the jewels. way too much heat, with melted insulation and scarred coax jackets. not to mention solder splashes and flux residue. I suppose this might be an artifact of the age, when everyone used those massive Weller guns with 1/4" tips and high-wattage!
>

> luckily, this was the only mod on the T4XC, though there must have been a problem with the oscillator board at some point in time, as they melted the wires resoldering them to the board. no problem cutting them back and soldering them correctly. I was also pleasantly surprised to find all the aux crystals loaded up for 160 and 10 meters.
>
> the only other issue I am having is the observations from listeners that there are no lows from the Shure 444. this makes for a great DX signal, but I think these days the expectation is for a more rounded bottom-end, that the Shure can't provide. so, my next task is to find a microphone/preamp to yield a better response on AM, that doesn't go through the bandwidth limited SSB filters. anyone stumbled upon a combination that works well on AM?
>
> 73's
>
> NF7Z, daniel
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>

3690. Drake DC-4 DC power supply and cable, or alternatives ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-25 16:31:11 UTC
From: arsnf7z
Topic: 3690 Message: 3690

in addressing my problem with powering Drake equipment on a sailboat, we explored a few possibilities; the best one seems to be locating a DC-4 DC power supply. they appear to be extremely rare .. so, please, anyone having one for sale, or knowing someone with one for sale, I would appreciate a response. I did find a DC-4, here, but it was offered 'as is' with no connecting cable. $70 for something that may very well be a paper weight (with no cable), isn't a good investment or risk. the fact that the cable is missing portends poorly in my view.

other than that, I am still open to recommendations for a noise-free DC/AC Pure-Sine inverter, as possibly used on Field Day. this must be a common problem for Field Day devotees, though I suspect that a gas-powered generator with ignition-shielding might be all that is required in many applications.

73's

NF7Z, daniel

3691. Re: [DrakeRadio] Drake DC-4 DC power supply and cable, or alternatives ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-25 17:39:50 UTC
From: Paul Kraemer
Topic: 3690 Message: 3691

Daniel
Guess you don't know me very well!
I have never sold anything that didn't work as described and I never would.
If I sent something un-tested and it came up with a bad report I would buy
it back including the shipping--no hassle---no questions. Plain and simple
it is my way of life---my way of doing business
I was going to sell it with the cable tested and gauranteed $100.
I don't have or can't find the cable and the time and expense of rigging it
up prompted me to offer it for less. Let someone else invest in testing it.
If it doesn't work they get their money back.
The DC4, TR4C, T4XC, R4C, L4B and several AC4 supplies all came from a
professional getleman who had them all since they were new. Everything else
worked exactly as he said. He wanted the simplicity of sending it all to a
new good home and that is the way I bought it. In fact, he sent the gear and
I received it before I even had gotten around to mailing his check.
Sounds like a better place to be in life. As for why isn't the missing cable
there--who knows, the extra microphones and tubes he generously gave me
certainly makes up for a missing cable or two (some of the R4/TR set were
missing too). Maybe I should call him on that
If you want the DC4 I will clip lead 12 v to it and see if it puts out the
right voltages but you will have to come up with your own cable.
Paul

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, May 25, 2010 11:31 AM
Subject: [DrakeRadio] Drake DC-4 DC power supply and cable, or alternatives
...

> in addressing my problem with powering Drake equipment on a sailboat, we
> explored a few possibilities; the best one seems to be locating a DC-4 DC
> power supply. they appear to be extremely rare .. so, please, anyone
> having one for sale, or knowing someone with one for sale, I would
> appreciate a response. I did find a DC-4, here, but it was offered 'as is'
> with no connecting cable. $70 for something that may very well be a paper
> weight (with no cable), isn't a good investment or risk. the fact that the
> cable is missing portends poorly in my view.
>
> other than that, I am still open to recommendations for a noise-free DC/AC
> Pure-Sine inverter, as possibly used on Field Day. this must be a common
> problem for Field Day devotees, though I suspect that a gas-powered
> generator with ignition-shielding might be all that is required in many
> applications.

>
> 73's
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> NF7Z, daniel
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> Yahoo! Groups Links
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3692. Re: Drake DC-4 DC power supply and cable, or alternatives ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-25 20:46:29 UTC
From: arsnf7z
Topic: 3690 Message: 3692

is there an issue with Yahoo groups email? I've been conversing via private email, and Paul's email to me is public. there is no need to discuss this matter publically, and I was careful not to mention any names in my previous posting.

Paul,

I certainly wasn't questioning your integrity. if you would give me my money back, that would be grand if it didn't work. I interpret 'AS IS' to be exactly that. you buy it .. it's yours. I think it is a logical extension to ask the history of the power supply. to get a complete Drake rig, including the power supply, extra microphones ... and yet, not receive the matching cable to the DC-4, would lead anyone to the conclusion that something happened along the way. the only scenarios I can think of, is that the owner forgot to give you the cable, or that the power supply was never used and no cable existed, or the power supply died and the cable was tossed. seems unlikely .. but the cable must be somewhere! <grin>

the cabling and connector are not a restriction. a dead DC-4 without the parts to fix it, would be. the best resolution, is to have you test it. if it is indeed, dead, then you would not want to sell it 'AS IS'. unless someone wants one for parts, of course. as the seller, I would think you would want to do that, or, sell it 'AS IS' and let the buyer take the risk. that seems wholly unfair to me (and a waste of time), when a few minutes with a power supply and a couple of clip-leads could address any doubts on both ends.

no slight intended ... just a buyer trying to determine what you are selling.

73's

daniel

3693. FS: Drake 4-line 30m Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-26 00:40:29 UTC
From: Bry Carling
Topic: 3693 Message: 3693

FOR SALE: Drake 4-Line 30m Crystals

This is the PROPER recommended crystal as described for
Drake equipment to be used on the 10 MHz band.
Great for your Drake T4X and R4B etc.

If you use 21.100 MHz crystals which would be the "normal" ones
to use, there is a severe reduction in sensitivity.
For best band coverage you need a crystal on 20.800 MHz.

I have had just a limited number of these made up for Drake owners.

They are currently available for $35.00 each and when they are gone,
that's it for the run.

Get the best performance from your Drake 4-Line equipment
on 30 meters.

Contact me off the list if you would like some of these.

73 - Brian, AF4K

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[Non-text portions of this message have been removed]

3694. Re: Drake 4-line 30m Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-26 15:54:00 UTC
From: Bry Carling
Topic: 3693 Message: 3694

Some folks have written to me asking WHY use a 20.8 MHz crystal
for your 4-line Drake rigs on the 30m band.

It is specified in the manual, but here is why - from the archives of
the Drakelist Group.... see below - 73, Bry AF4K.com
(Thanks David, Eric and Garey)

-~ø¤º°º¤ø~-"ßrÿ in FLÕRÎÐÁ"-~ø¤º°º¤ø~-

SUBJECT: [drakelist] 20.8 MHz (30 Meter) T-4XC Crystal wanted

-----Original Message-----
From: Garey Barrell
Sent: Sunday, February 27, 2005
To: Eric Webner; Drakelist
Subject: Re: [drakelist] 20.8 MHz (30 Meter) T-4XC Crystal wanted

Garey Barrell made an utterence to the drakelist gang:

Eric -

There is a very good reason for using the 20.8 MHz crystal instead of
the 21.1. There are several spurious outputs in and around 10 MHz
when using the 21.1. This is specified in the T-4X(any) manual with
"do not use" ranges for certain crystals. Keep in mind that the PTO
operates in and around 5 MHz.....

And yes, you can transceive on any crystal you have in the receiver,
but the same problems occur with a 21.1 MHz crystal in the R-4(any).
If you just want to listen to 10.1 - 10.150 the 21.1 MHz crystal will work
in the receiver. But don't transceive using that crystal. Transceive isn't
all that satisfactory on CW anyway, since the offset is around 900 Hz
and most folks like to listen to CW at a somewhat lower frequency.

73, Garey - K4OAH
Atlanta

Eric Webner wrote:

>I wonder if the 21.1 Mhz crystal would work as well. It sure would be
a lot easier to operated the vfo, since the band would start at 10.0
Mhz instead of 9.7 or whatever the manual says.

Can you experts tell me what it takes to transceive on accessory
crystals? Can I get a crystal for the receiver, set the T-4XC mode
switch to "RECEIVE" and be able to transmit and receive on the 30
meter band?

73,

Eric KA8FAN

David Havel wrote:

Hello gang,

I'm in search of a 20.8 MHz crystal for my T-4XC in order to put it on 30 meters. According to the manual, the 20.8 unit is the only recommended crystal for use on this band. If you have one you'd like to sell, please email me what you're asking for it!

Thank you in advance & 73,

David Havel - NO3K

[Non-text portions of this message have been removed]

3695. T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-26 23:16:21 UTC
From: Richard Knoppow
Topic: 3695 Message: 3695

I discovered my T4XB has a lot of distortion on AM.
Its especially noticable as "spitty" highs and there is some
splattering and it sounds "clippy". Its not overmodulation.
The voltages at the 6AU6A modulator are close to those
specified. Is this a common problem, if it is perhaps
someone could save me some tail chasing.
Also, a couple of days ago a mysterious problem showed
up in my R4B. When the mute is on for any length of time
(several seconds or more) the neon indicator lamp won't come
on again. The mute circuit itself seems to work OK. When the
problem happens I get a higher than normal voltage across
the leads to the lamp on the circuit board. That sounds like
the lamp is going open. Has anyone experienced this before?
I will try to find a replacement lamp but I am wondering how
it could be intermittant in this particular way. Turning the
receiver off for a minute or two will light the lamp but
does not actually fix the problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3696. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-26 23:24:47 UTC
From: Rotten Robbie
Topic: 3695 Message: 3696

You really need an audio signal generator to troubleshoot speech amp/modulator problems.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 4:16 PM
Subject: [DrakeRadio] T4XB AM distortion and a receiver problem

> I discovered my T4XB has a lot of distortion on AM.
> Its especially noticable as "spitty" highs and there is some
> splattering and it sounds "clippy". Its not overmodulation.
> The voltages at the 6AU6A modulator are close to those
> specified. Is this a common problem, if it is perhaps
> someone could save me some tail chasing.
> Also, a couple of days ago a mysterious problem showed
> up in my R4B. When the mute is on for any length of time
> (several seconds or more) the neon indicator lamp won't come
> on again. The mute circuit itself seems to work OK. When the
> problem happens I get a higher than normal voltage across
> the leads to the lamp on the circuit board. That sounds like
> the lamp is going open. Has anyone experienced this before?
> I will try to find a replacement lamp but I am wondering how
> it could be intermittant in this particular way. Turning the
> receiver off for a minute or two will light the lamp but
> does not actually fix the problem.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
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> Yahoo! Groups Links
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3697. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 00:00:48 UTC
From: Richard Knoppow
Topic: 3695 Message: 3697

----- Original Message -----
From: "Rotten Robbie" <rottenrobbie0@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 4:24 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> You really need an audio signal generator to troubleshoot
> speech
> amp/modulator problems.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

Well, I have a good audio generator (General Radio).
The mystery is that SSB is fine, just AM has a problem.
Also, the side tone seems OK. I tried replacing the 6AU6 and
12BY7 tubes with no change. Next will be C-134 but I would
think if it was leaky it would show up as a shift of the
bias at the 6AU6 grid. Anyway, I think I will hook up the
audio oscillator and scope and see what it shows. I just
thought someone had experienced this before and would know
the exact cause.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3698. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 00:09:36 UTC
From: Rotten Robbie
Topic: 3695 Message: 3698

I'd say the 1st thing to check is the bias setting on the controlled carrier modulator. The Drakes I know are different from other SSB/SM transmitters as they actually have two modulators.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 5:00 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

>
> ----- Original Message -----
> From: "Rotten Robbie" <rottenrobbie0@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, May 26, 2010 4:24 PM
> Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver
> problem
>
>
>> You really need an audio signal generator to troubleshoot
>> speech
>> amp/modulator problems.
>>
>> Bob Macklin
>> K5MYJ
>> Seattle, Wa.
>
> Well, I have a good audio generator (General Radio).
> The mystery is that SSB is fine, just AM has a problem.
> Also, the side tone seems OK. I tried replacing the 6AU6 and
> 12BY7 tubes with no change. Next will be C-134 but I would
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> bias at the 6AU6 grid. Anyway, I think I will hook up the
> audio oscillator and scope and see what it shows. I just
> thought someone had experienced this before and would know
> the exact cause.
>
>
> --
> Richard Knoppow
> Los Angeles

> WB6KBL
> dickburk@...
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3699. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 00:42:03 UTC
From: Richard Knoppow
Topic: 3695 Message: 3699

----- Original Message -----
From: "Rotten Robbie" <rottenrobbie0@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 5:09 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> I'd say the 1st thing to check is the bias setting on the
> controlled carrier
> modulator. The Drakes I know are different from other
> SSB/SM transmitters as
> they actually have two modulators.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
>
I am unaware of any way of setting the bias for the modulator. I agree that if its off it could cause the problem. I am about to run some tests with an oscillator and scope and may replace the coupling caps just on principle but I don't like shotgunning stuff. Unfortunately, the only voltages given are for "Tune" and may be quite different in other modes. I may never use AM but I don't like to leave things half-fixed.
Also, I don't quite understand what you mean by two modulators unless one of them is the balanced modulator for SSB. It appears that the controlled carrier modulator is the 6AU6 modulating the screen of the 12BY7 driver stage. The 6AU6 seems to do double-duty as the side-tone amp in CW. This seems to work OK but has some distortion when both the side-tone/anti-vox control and the main gain control are wide open, not a position I would normally use it. Anyway, I will report back on my measurements.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3700. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 03:48:09 UTC
From: Garey Barrell
Topic: 3695 Message: 3700

Hi Richard -

There is no adjustment for the bias on V11. You can put a resistor in the lead from the Plate up to the Screen of V4, either a pot or selected resistor to get the idle current you want. Parallel the resistor with a 0.47 uF capacitor. No more than 15-20W output from the PA with no modulation.

Have you checked R58? Those high value carbon comps are particularly prone to going up in value over time. I'd check R56 and R57 while you're in there just to be sure.

The problem with the PTO indicator lamp in the R-4B is that the firing voltage of the NE-2Es goes up with age, and the resistive divider across Q10 is fairly tight. Drake's fix was to just cut out R150 to allow that firing voltage to increase. Changing out the bulb isn't too bad if you have three hands! You have to pull the front panel, cut and resolder the leads to the new bulb and then reassemble the panel, the bulb, and the shield without breaking a lead off the bulb. The replacement bulb has to be short enough to fit in the shield, which unfortunately is shorter than the maximum allowable length of the bulb. Most are short enough to fit, but check before you're almost through with the re-installation!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> I am unaware of any way of setting the bias for the
> modulator. I agree that if its off it could cause the
> problem. I am about to run some tests with an oscillator and
> scope and may replace the coupling caps just on principle
> but I don't like shotgunning stuff. Unfortunately, the only
> voltages given are for "Tune" and may be quite different in
> other modes. I may never use AM but I don't like to leave
> things half-fixed.
> Also, I don't quite understand what you mean by two
> modulators unless one of them is the balanced modulator for
> SSB. It appears that the controlled carrier modulator is the
> 6AU6 modulating the screen of the 12BY7 driver stage. The
> 6AU6 seems to do double-duty as the side-tone amp in CW.
> This seems to work OK but has some distortion when both the
> side-tone/anti-vox control and the main gain control are

> wide open, not a position I would normally use it. Anyway, I
> will report back on my measurements.
>
>

3701. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 04:01:08 UTC
From: Richard Knoppow
Topic: 3695 Message: 3701

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 8:48 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> Hi Richard -
>
> There is no adjustment for the bias on V11. You can put a
> resistor in
> the lead from the Plate up to the Screen of V4, either a
> pot or selected
> resistor to get the idle current you want. Parallel the
> resistor with a
> 0.47 uF capacitor. No more than 15-20W output from the PA
> with no
> modulation.

What is typical output, mine has only about 5 watts when keyed but without modulation.
I think I checked all three resistors but will check them again.
I will try lifing the 150K resistor on the receiver. The voltage when the lamp does not fire goes up to around 101 volts but only to about 91 when it does fire. Of course the lamp is not drawing current when not fired. I don't know what the firing voltage is supposed to be but lifting the resistor seems like a good cure. I've had the lamp out, its a bother but doable. I know what you mean about lead length. Its one of those jobs where there are no short cuts.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3702. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 05:16:03 UTC
From: Richard Knoppow
Topic: 3695 Message: 3702

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 8:48 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> Hi Richard -
>
I lifted one end of R-150, that seems to have fixed it.
If the factory did this I should think no other change is necessary, is that the case?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3703. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 06:26:36 UTC
From: Richard Knoppow
Topic: 3695 Message: 3703

R-150 was the problem. I started out by just lifting it
decided to measure it, about 88K. This was just enough low
to cause a problem. While carbon comp resistors normally go
high evidently they can also go low. In any case replacing
it with a 100K film resistor seems to have fixed the
problem. Its also possible that the old resistor was
temperature sensitive, I've not checked it for that but
after running RX and TX for more than half an hour the PTO
light still works. So thanks for pointing me in the right
direction.
I have yet to complete trouble shooting the AM problem.
On AM I get lots of splatter especially if I blow into the
microphone. Intermod distortion perhaps? Anyway knowing the
normal amount of carrier in the absense of modulation would
be a clue.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3704. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 06:57:42 UTC
From: Richard Knoppow
Topic: 3695 Message: 3704

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 26, 2010 8:48 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> Hi Richard -
>
> There is no adjustment for the bias on V11. You can put a
> resistor in
> the lead from the Plate up to the Screen of V4, either a
> pot or selected
> resistor to get the idle current you want. Parallel the
> resistor with a
> 0.47 uF capacitor. No more than 15-20W output from the PA
> with no
> modulation.
>
> Have you checked R58? Those high value carbon comps are
> particularly
> prone to going up in value over time. I'd check R56 and
> R57 while
> you're in there just to be sure.

Checked all three and all are very close to the marked values.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3705. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 14:14:54 UTC
From: Garey Barrell
Topic: 3695 Message: 3705

Richard -

OK. Yes, sometimes carbon comp resistors do go low in resistance. R150 is there to limit the voltage on the transistor, so it's better that it's in there. Interestingly, the 2N3877 is only rated for 75 VDC Vceo. The divider results in about 110V at the junction of R150 / R151. Of course there is no voltage on the Collector until the NE2 fires, and it drops ~ 65V once fired. Minimum firing voltage is 90V. By the way, the NE-2E is now known as the A9A. Some have replaced the NE-2E with the high brightness version (NE-2H for example), only to find that after they got it all back together it still didn't work! The "H" versions drop ~95V and takes 135V to fire!

Typical output on AM with no modulation is ~ 3-5W, so you're in the ballpark. This is "controlled carrier", as opposed to "screen modulation", chosen to limit the dissipation in the PA. Theoretically the carrier power comes up with modulation to maintain the balance needed. Some don't like it because the receiver S-Meter swings around like it's on DSB. I have heard some that sound great as designed. There are several simple mods to convert to screen modulation, I'm not sure what effect they might have on SIDETONE operation. I've never played with AM, preferring to use "real" AM gear such as the Viking Ranger, Viking II, DX-100, 32V-3, etc.

73, Garey - K4OAH
Glen Allen, VA

Richard Knoppow wrote:
> R-150 was the problem. I started out by just lifting it
> decided to measure it, about 88K. This was just enough low
> to cause a problem. While carbon comp resistors normally go
> high evidently they can also go low. In any case replacing
> it with a 100K film resistor seems to have fixed the
> problem. Its also possible that the old resistor was
> temperature sensitive, I've not checked it for that but
> after running RX and TX for more than half an hour the PTO
> light still works. So thanks for pointing me in the right
> direction.
> I have yet to complete trouble shooting the AM problem.
> On AM I get lots of splatter especially if I blow into the
> microphone. Intermod distortion perhaps? Anyway knowing the
> normal amount of carrier in the absense of modulation would
> be a clue.
>
>

3706. RE: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 14:51:07 UTC
From: Bry Carling
Topic: 3695 Message: 3706

They almost always go up in resistance with age...

Brian Carling, sent from my smartphone

-----Original Message-----
From: Garey Barrell <k4oah@mindspring.com>
Sent: Thursday, May 27, 2010 10:14 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Richard -

OK. Yes, sometimes carbon comp resistors do go low in resistance. R150 is there to limit the voltage on the transistor, so it's better that it's in there. Interestingly, the 2N3877 is only rated for 75 VDC Vceo. The divider results in about 110V at the junction of R150 / R151. Of course there is no voltage on the Collector until the NE2 fires, and it drops ~ 65V once fired. Minimum firing voltage is 90V. By the way, the NE-2E is now known as the A9A. Some have replaced the NE-2E with the high brightness version (NE-2H for example), only to find that after they got it all back together it still didn't work! The "H" versions drop ~95V and takes 135V to fire!

Typical output on AM with no modulation is ~ 3-5W, so you're in the ballpark. This is "controlled carrier", as opposed to "screen modulation", chosen to limit the dissipation in the PA. Theoretically the carrier power comes up with modulation to maintain the balance needed. Some don't like it because the receiver S-Meter swings around like it's on DSB. I have heard some that sound great as designed. There are several simple mods to convert to screen modulation, I'm not sure what effect they might have on SIDETONE operation. I've never played with AM, preferring to use "real" AM gear such as the Viking Ranger, Viking II, DX-100, 32V-3, etc.

73, Garey - K4OAH
Glen Allen, VA

Richard Knoppow wrote:
> R-150 was the problem. I started out by just lifting it
> decided to measure it, about 88K. This was just enough low
> to cause a problem. While carbon comp resistors normally go
> high evidently they can also go low. In any case replacing
> it with a 100K film resistor seems to have fixed the
> problem. Its also possible that the old resistor was
> temperature sensitive, I've not checked it for that but
> after running RX and TX for more than half an hour the PTO
> light still works. So thanks for pointing me in the right

> direction.
> I have yet to complete trouble shooting the AM problem.
> On AM I get lots of splatter especially if I blow into the
> microphone. Intermod distortion perhaps? Anyway knowing the
> normal amount of carrier in the absense of modulation would
> be a clue.
>
>

Yahoo! Groups Links

3707. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 18:10:28 UTC
From: Richard Knoppow
Topic: 3695 Message: 3707

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 27, 2010 7:14 AM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> Richard -
>
> OK. Yes, sometimes carbon comp resistors do go low in
> resistance. R150
> is there to limit the voltage on the transistor, so it's
> better that
> it's in there. Interestingly, the 2N3877 is only rated
> for 75 VDC
> Vceo. The divider results in about 110V at the junction
> of R150 /
> R151. Of course there is no voltage on the Collector
> until the NE2
> fires, and it drops ~ 65V once fired. Minimum firing
> voltage is 90V.
> By the way, the NE-2E is now known as the A9A. Some have
> replaced the
> NE-2E with the high brightness version (NE-2H for
> example), only to find
> that after they got it all back together it still didn't
> work! The "H"
> versions drop ~95V and takes 135V to fire!
>
> Typical output on AM with no modulation is ~ 3-5W, so
> you're in the
> ballpark. This is "controlled carrier", as opposed to
> "screen
> modulation", chosen to limit the dissipation in the PA.
> Theoretically
> the carrier power comes up with modulation to maintain the
> balance
> needed. Some don't like it because the receiver S-Meter
> swings around
> like it's on DSB. I have heard some that sound great as
> designed.
> There are several simple mods to convert to screen
> modulation, I'm not
> sure what effect they might have on SIDETONE operation.
> I've never

> played with AM, preferring to use "real" AM gear such as
> the Viking
> Ranger, Viking II, DX-100, 32V-3, etc.
>
> 73, Garey - K4OAH
> Glen Allen, VA

After fooling around a bit I am not sure there really
is an AM problem, it may be an artifact of the way I am
testing. SSB sounds fine. On the scope the AM looks about
like it should, that is, a varying amount of amplitude of
the overall envelope but with about constant modulation
percentage. I don't hear any distortion (at least not gross)
on a single tone. I don't have a second oscillator available
to make two-tone tests.
I check the audio quality with the AVC off and fixed,
rather low RF gain. The test receiver is a Hammarlund
SP-600-JX on the other side of the room. There is enough
radiation from the dummy load, or perhaps directly from the
TX, to get a usable signal on it. At any rate, I am going to
do a final check on tuning and button the thing back up.
Thanks to all those who helped.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3708. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 19:13:59 UTC
From: Garey Barrell
Topic: 3695 Message: 3708

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Thursday, May 27, 2010 7:14 AM
> Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver
> problem
>
>
>
>> Richard -
>>
>> OK. Yes, sometimes carbon comp resistors do go low in
>> resistance. R150
>> is there to limit the voltage on the transistor, so it's
>> better that
>> it's in there. Interestingly, the 2N3877 is only rated
>> for 75 VDC
>> Vceo. The divider results in about 110V at the junction
>> of R150 /
>> R151. Of course there is no voltage on the Collector
>> until the NE2
>> fires, and it drops ~ 65V once fired. Minimum firing
>> voltage is 90V.
>> By the way, the NE-2E is now known as the A9A. Some have
>> replaced the
>> NE-2E with the high brightness version (NE-2H for
>> example), only to find
>> that after they got it all back together it still didn't
>> work! The "H"
>> versions drop ~95V and takes 135V to fire!
>>
>> Typical output on AM with no modulation is ~ 3-5W, so
>> you're in the
>> ballpark. This is "controlled carrier", as opposed to
>> "screen
>> modulation", chosen to limit the dissipation in the PA.
>> Theoretically
>> the carrier power comes up with modulation to maintain the
>> balance
>> needed. Some don't like it because the receiver S-Meter
>> swings around
>> like it's on DSB. I have heard some that sound great as
>> designed.
>> There are several simple mods to convert to screen

>> modulation, I'm not
>> sure what effect they might have on SIDETONE operation.
>> I've never
>> played with AM, preferring to use "real" AM gear such as
>> the Viking
>> Ranger, Viking II, DX-100, 32V-3, etc.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
> After fooling around a bit I am not sure there really
> is an AM problem, it may be an artifact of the way I am
> testing. SSB sounds fine. On the scope the AM looks about
> like it should, that is, a varying amount of amplitude of
> the overall envelope but with about constant modulation
> percentage. I don't hear any distortion (at least not gross)
> on a single tone. I don't have a second oscillator available
> to make two-tone tests.
> I check the audio quality with the AVC off and fixed,
> rather low RF gain. The test receiver is a Hammarlund
> SP-600-JX on the other side of the room. There is enough
> radiation from the dummy load, or perhaps directly from the
> TX, to get a usable signal on it. At any rate, I am going to
> do a final check on tuning and button the thing back up.
> Thanks to all those who helped.
>

> Richard -
>
>
>
> Without a two-tone generator, the best thing you can do is set up the
> mic in front of a BC radio and tune in either talk or music. Then
> listen on headphones to the test receiver.
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

3709. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 19:36:21 UTC
From: Richard Knoppow
Topic: 3695 Message: 3709

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 27, 2010 12:13 PM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

>>>
>> Without a two-tone generator, the best thing you can do
>> is set up the
>> mic in front of a BC radio and tune in either talk or
>> music. Then
>> listen on headphones to the test receiver.
>>
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
This is pretty much what I do. I use a direct connection with an attenuator from the headphone jack of a small radio to the mic input. The attenuator also serves to present both sides with the correct impedances. It seems to me that I got cleaner sounding AM at some point in the past than now but can't be sure. In any case, I don't intend to use the TX for AM but I like to have everything working right. I just rechecked tuning since I have the covers loose, all seems to be on the nose. I think I will button the thing up. The RX is still working right. I need to get busy and rig an antenna.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3710. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 21:00:43 UTC
From: William Houghton
Topic: 3695 Message: 3710

Richard,

Congratulations on getting the rig up and running.

Bill

From: Richard Knoppow <1oldlens1@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, May 27, 2010 11:10:28 AM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 27, 2010 7:14 AM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

> Richard -
>
> OK. Yes, sometimes carbon comp resistors do go low in
> resistance. R150
> is there to limit the voltage on the transistor, so it's
> better that
> it's in there. Interestingly, the 2N3877 is only rated
> for 75 VDC
> Vceo. The divider results in about 110V at the junction
> of R150 /
> R151. Of course there is no voltage on the Collector
> until the NE2
> fires, and it drops ~ 65V once fired. Minimum firing
> voltage is 90V.
> By the way, the NE-2E is now known as the A9A. Some have
> replaced the
> NE-2E with the high brightness version (NE-2H for
> example), only to find
> that after they got it all back together it still didn't
> work! The "H"
> versions drop ~95V and takes 135V to fire!
>
> Typical output on AM with no modulation is ~ 3-5W, so
> you're in the
> ballpark. This is "controlled carrier", as opposed to
> "screen
> modulation", chosen to limit the dissipation in the PA.

> Theoretically
> the carrier power comes up with modulation to maintain the
> balance
> needed. Some don't like it because the receiver S-Meter
> swings around
> like it's on DSB. I have heard some that sound great as
> designed.
> There are several simple mods to convert to screen
> modulation, I'm not
> sure what effect they might have on SIDETONE operation.
> I've never
> played with AM, preferring to use "real" AM gear such as
> the Viking
> Ranger, Viking II, DX-100, 32V-3, etc.
>
> 73, Garey - K4OAH
> Glen Allen, VA

After fooling around a bit I am not sure there really
is an AM problem, it may be an artifact of the way I am
testing. SSB sounds fine. On the scope the AM looks about
like it should, that is, a varying amount of amplitude of
the overall envelope but with about constant modulation
percentage. I don't hear any distortion (at least not gross)
on a single tone. I don't have a second oscillator available
to make two-tone tests.
I check the audio quality with the AVC off and fixed,
rather low RF gain. The test receiver is a Hammarlund
SP-600-JX on the other side of the room. There is enough
radiation from the dummy load, or perhaps directly from the
TX, to get a usable signal on it. At any rate, I am going to
do a final check on tuning and button the thing back up.
Thanks to all those who helped.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...m

[Non-text portions of this message have been removed]

3711. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 21:09:06 UTC
From: Rotten Robbie
Topic: 3695 Message: 3711

Test the audio by recording it and listening to it later. That's better than
listening to it real time.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 27, 2010 11:10 AM
Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver problem

>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, May 27, 2010 7:14 AM
> Subject: Re: [DrakeRadio] T4XB AM distortion and a receiver
> problem
>
>
>> Richard -
>>
>> OK. Yes, sometimes carbon comp resistors do go low in
>> resistance. R150
>> is there to limit the voltage on the transistor, so it's
>> better that
>> it's in there. Interestingly, the 2N3877 is only rated
>> for 75 VDC
>> Vceo. The divider results in about 110V at the junction
>> of R150 /
>> R151. Of course there is no voltage on the Collector
>> until the NE2
>> fires, and it drops ~ 65V once fired. Minimum firing
>> voltage is 90V.
>> By the way, the NE-2E is now known as the A9A. Some have
>> replaced the
>> NE-2E with the high brightness version (NE-2H for
>> example), only to find
>> that after they got it all back together it still didn't
>> work! The "H"
>> versions drop ~95V and takes 135V to fire!
>>
>> Typical output on AM with no modulation is ~ 3-5W, so

>> you're in the
>> ballpark. This is "controlled carrier", as opposed to
>> "screen
>> modulation", chosen to limit the dissipation in the PA.
>> Theoretically
>> the carrier power comes up with modulation to maintain the
>> balance
>> needed. Some don't like it because the receiver S-Meter
>> swings around
>> like it's on DSB. I have heard some that sound great as
>> designed.
>> There are several simple mods to convert to screen
>> modulation, I'm not
>> sure what effect they might have on SIDETONE operation.
>> I've never
>> played with AM, preferring to use "real" AM gear such as
>> the Viking
>> Ranger, Viking II, DX-100, 32V-3, etc.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>
> After fooling around a bit I am not sure there really
> is an AM problem, it may be an artifact of the way I am
> testing. SSB sounds fine. On the scope the AM looks about
> like it should, that is, a varying amount of amplitude of
> the overall envelope but with about constant modulation
> percentage. I don't hear any distortion (at least not gross)
> on a single tone. I don't have a second oscillator available
> to make two-tone tests.
> I check the audio quality with the AVC off and fixed,
> rather low RF gain. The test receiver is a Hammarlund
> SP-600-JX on the other side of the room. There is enough
> radiation from the dummy load, or perhaps directly from the
> TX, to get a usable signal on it. At any rate, I am going to
> do a final check on tuning and button the thing back up.
> Thanks to all those who helped.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>

3712. Re: [DrakeRadio] T4XB AM distortion and a receiver problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-27 23:45:07 UTC
From: Gary Woods
Topic: 3695 Message: 3712

On Thu, 27 May 2010 10:51:07 -0400, you wrote:

>They almost always go up in resistance with age...

The operative term is "almost."
I once chased my tail on a Navy loran set (APN-70) whose timebase was
running high in frequency; the plug-in crystal was OK.
Decoupling resistor to the oscillator tube had gone virtually shorted, and
the high B+ apparently overdrove things and caused the problem.
We were much more accustomed to open resistors, usually with the obvious
loss of internal smoke.

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

3713. Drake Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 13:11:03 UTC
From: Tim Kass
Topic: 3713 Message: 3713

Drake crystals - 20.6 = covers 9.5 - 10.0 Mhz Short wave band..
26.6 = covers 15.0 - 15.5 Mhz Short wave band
38.1 = covers 27.0 - 27.5 Mhz CB band
39.1 = covers 28.0 - 28.5 Mhz Ham band
37.6 = covers 26.5 - 27.0 Mhz CB band

All crystals $15 plus $5 shipping.. bundle with several and no extra shipping costs. I take Paypal and MO.

73, Tim K8WBL K8WBL@...

[Non-text portions of this message have been removed]

3714. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 20:40:20 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3714

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3715. R-4C with Late Serial Number

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 21:40:53 UTC
From: aa5wg
Topic: 3715 Message: 3715

Hi to all:
Has there been any 1st and 2nd mixer changes/modifications, including different tubes/valves, for a late serial number R-4C?

73,
Chuck - AA5WG
Cedar, Michigan

3716. Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 22:56:22 UTC
From: Joe
Topic: 3716 Message: 3716

Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming out of the power plug for the T4X-B.

What is that plug for?

Joe Wolfe
WA6RKN
Reno, Nevada

3717. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 22:57:59 UTC
From: LEE BAHR
Topic: 3716 Message: 3717

SPKR

Lee, w0vt

----- Original Message -----
From: Joe
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 30, 2010 5:56 PM
Subject: [DrakeRadio] Extra Pigtail

Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming out of the power plug for the T4X-B.

What is that plug for?

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

3718. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 23:03:43 UTC
From: Joe
Topic: 3716 Message: 3718

Nope...not speaker...that is a long pigtail that comes from the speaker itself....this one is connected inside the plug itself!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
Subject: Re: [DrakeRadio] Extra Pigtail

> SPKR
>

3719. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 23:12:28 UTC
From: Jim Shorney
Topic: 3716 Message: 3719

On Sun, 30 May 2010 16:03:43 -0700, Joe wrote:

>
>Nope...not speaker..

Speaker connection when used with a TR-3 or TR-4.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3720. Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 23:08:41 UTC
From: kb1sth
Topic: 3716 Message: 3720

I, too, was wondering.
Could not find the answer.
Ivan Shapiro
KB1STH

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming
> out of the power plug for the T4X-B.
>
> What is that plug for?
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

3721. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-30 23:55:27 UTC
From: Joe
Topic: 3716 Message: 3721

Hi Jim..

Not doubting you...

But.....

You say it is a speaker connection for the 3 and 4......My question is...how? There is no wiring between the speaker and the AC-3/4....The PS just sits in the speaker housing. There is a long pigtail that comes directly off the speaker and goes over to the R4-B. The pigtail I ask about is only 6 or so inches long and is wired directly into the power plug. It never 'sees' the speaker or speaker housing. I guess I need to look in the plug and see what its pin-out is...might answer my question.......it sure isn't shown in any of the manuals I have or the schematics either!

Does the TR-3/4 have a powered speaker? It could have been a power tap for that....or for an external VFO???

Joe Wolfe
WA6RKN
Reno, Nevada

Happy Memorial Day all...Make sure you thank a Vet for this day!

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Extra Pigtail

3722. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 00:02:46 UTC
From: Jim Shorney
Topic: 3716 Message: 3722

On Sun, 30 May 2010 16:55:27 -0700, Joe wrote:

>There is a long pigtail that comes
>directly off the speaker and goes over to the R4-B. The pigtail I ask about
>is only 6 or so inches long and is wired directly into the power plug.

It is not for use with the T-4any or R-4any. It is the speaker OUTPUT for the
TR series transcievers only. It has no function on the seperates.

http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm

Page 1.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3723. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 00:09:05 UTC
From: Joe
Topic: 3716 Message: 3723

So....instead of plugging the long speaker cord into the TR-3/4, it just plugs into the short pigtail and the speaker connection is made through the master power plug when it is plugged into the TR-3/4. Interesting.

Thanks!

Joe

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Extra Pigtail

> It is not for use with the T-4any or R-4any. It is the speaker OUTPUT for
> the
> TR series transcievers only. It has no function on the seperates.
>
> http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm

3724. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 00:46:43 UTC
From: Dan Galligan
Topic: 3716 Message: 3724

I now have had one of my long time questions answered.
Dan Galligan
W3RXO
dgalligan60 (at) mac (dot) com
w3rxo (at) mac (dot) com

When injustice becomes law, resistance becomes duty.
Thomas Jefferson

Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty, nor safety.
Benjamin Franklin

The price of freedom is eternal vigilance.
Thomas Jefferson

On May 30, 2010, at 5:09 PM, Joe wrote:

So....instead of plugging the long speaker cord into the TR-3/4, it just plugs into the short pigtail and the speaker connection is made through the master power plug when it is plugged into the TR-3/4. Interesting.

Thanks!

Joe

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Extra Pigtail

> It is not for use with the T-4any or R-4any. It is the speaker OUTPUT for
> the
> TR series transcievers only. It has no function on the seperates.
>
> http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm

---

Yahoo! Groups Links

[Non-text portions of this message have been removed]

3725. Re: [DrakeRadio] Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 01:46:19 UTC
From: Garey Barrell
Topic: 3716 Message: 3725

Joe -

As others have said, that pigtail is a speaker output when the AC-4 is used with the TR-3/4 transceivers. I believe the original thought was to have just one connector and one antenna lead to pull the radio out of the vehicle.

One caveat.... The AC-3 power supply was designed for use with the TR-3, before the T-4X was designed, but the AC-3 was sold for the early T-4X transmitters. It had NO connection for keying an external amplifier, not even the nutsy two pin connector that was on the AC-4. So... There are more than a few AC-3 power supplies floating around out there that have had that little pigtail "repurposed" as an external amp keying connection.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming
> out of the power plug for the T4X-B.
>
> What is that plug for?
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
>
>

3726. Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 02:42:33 UTC
From: kb1sth
Topic: 3716 Message: 3726

So...can a TR4CW or TR4CWRIT connected to AC4 send speaker output thru the pigtail. I would assume yes, based on the post below.
THX
73
IVan
KB1STH

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Joe -
>
> As others have said, that pigtail is a speaker output when the AC-4 is
> used with the TR-3/4 transceivers. I believe the original thought was
> to have just one connector and one antenna lead to pull the radio out of
> the vehicle.
>
> One caveat.... The AC-3 power supply was designed for use with the
> TR-3, before the T-4X was designed, but the AC-3 was sold for the early
> T-4X transmitters. It had NO connection for keying an external
> amplifier, not even the nutsy two pin connector that was on the AC-4.
> So... There are more than a few AC-3 power supplies floating around out
> there that have had that little pigtail "repurposed" as an external amp
> keying connection.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Joe wrote:
> > Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming
> > out of the power plug for the T4X-B.
> >
> > What is that plug for?
> >
> > Joe Wolfe
> > WA6RKN
> > Reno, Nevada
> >
> >
> >
> >
>

3727. Re: [DrakeRadio] Drake Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 01:19:26 UTC
From: lon brickley
Topic: 3713 Message: 3727

tim...what crystal is necessary for 17mtrs....18.100 etc. thanx. w4afs
----- Original Message -----
From: Tim Kass
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 30, 2010 9:11 AM
Subject: [DrakeRadio] Drake Crystals

Drake crystals - 20.6 = covers 9.5 - 10.0 Mhz Short wave band..
26.6 = covers 15.0 - 15.5 Mhz Short wave band
38.1 = covers 27.0 - 27.5 Mhz CB band
39.1 = covers 28.0 - 28.5 Mhz Ham band
37.6 = covers 26.5 - 27.0 Mhz CB band

All crystals $15 plus $5 shipping.. bundle with several and no extra shipping costs. I take Paypal and MO.

73, Tim K8WBL K8WBL@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3728. Re: [DrakeRadio] Drake Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 04:01:43 UTC
From: Tim Kass
Topic: 3713 Message: 3728

You'll need a 29.1 Mhz xtal... that will cover 18.0 - 18.5 Mhz on the Drake.. sorry but I don't have that one..

73, Tim K8WBL

--- On Sun, 5/30/10, lon brickley <lonafs@...> wrote:

From: lon brickley <lonafs@comcast.net>
Subject: Re: [DrakeRadio] Drake Crystals
To: DrakeRadio@yahoogroups.com
Date: Sunday, May 30, 2010, 9:19 PM

tim...what crystal is necessary for 17mtrs....18.100 etc. thanx. w4afs
----- Original Message -----
From: Tim Kass
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 30, 2010 9:11 AM
Subject: [DrakeRadio] Drake Crystals

Drake crystals - 20.6 = covers 9.5 - 10.0 Mhz Short wave band..
26.6 = covers 15.0 - 15.5 Mhz Short wave band
38.1 = covers 27.0 - 27.5 Mhz CB band
39.1 = covers 28.0 - 28.5 Mhz Ham band
37.6 = covers 26.5 - 27.0 Mhz CB band

All crystals $15 plus $5 shipping.. bundle with several and no extra shipping costs. I take Paypal and MO.

73, Tim K8WBL K8WBL@...

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[Non-text portions of this message have been removed]

3729. Re: [DrakeRadio] Drake Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 10:52:12 UTC
From: Bry Carling
Topic: 3713 Message: 3729

For 17m in the Drake 4-Line, you need a 29.100 MHz hc6u crystal.

I have those available for sale.

73 de AF4K, Bry

On 30 May 2010 at 21:19, lon brickley wrote:

> tim...what crystal is necessary for 17mtrs....18.100 etc. thanx.
> w4afs
> ----- Original Message -----
> From: Tim Kass
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, May 30, 2010 9:11 AM
> Subject: [DrakeRadio] Drake Crystals
>
>
>
> Drake crystals - 20.6 = covers 9.5 - 10.0 Mhz Short wave band..
> 26.6 = covers 15.0 - 15.5 Mhz Short wave band
> 38.1 = covers 27.0 - 27.5 Mhz CB band
> 39.1 = covers 28.0 - 28.5 Mhz Ham band
> 37.6 = covers 26.5 - 27.0 Mhz CB band
>
> All crystals $15 plus $5 shipping.. bundle with several and no
> extra shipping costs. I take Paypal and MO.
>
> 73, Tim K8WBL K8WBL@Yahoo.com
>
> [Non-text portions of this message have been removed]
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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3730. Re: [DrakeRadio] Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 13:51:30 UTC
From: Garey Barrell
Topic: 3716 Message: 3730

Yes. Only the AC-3 was "subject" to modification.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

kb1sth wrote:
> So...can a TR4CW or TR4CWRIT connected to AC4 send speaker output thru the pigtail. I would assume yes, based on the post below.
> THX
> 73
> IVan
> KB1STH
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Joe -
>>
>> As others have said, that pigtail is a speaker output when the AC-4 is
>> used with the TR-3/4 transceivers. I believe the original thought was
>> to have just one connector and one antenna lead to pull the radio out of
>> the vehicle.
>>
>> One caveat.... The AC-3 power supply was designed for use with the
>> TR-3, before the T-4X was designed, but the AC-3 was sold for the early
>> T-4X transmitters. It had NO connection for keying an external
>> amplifier, not even the nutsy two pin connector that was on the AC-4.
>> So... There are more than a few AC-3 power supplies floating around out
>> there that have had that little pigtail "repurposed" as an external amp
>> keying connection.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Joe wrote:
>>
>>> Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming
>>> out of the power plug for the T4X-B.
>>>
>>> What is that plug for?

```
>>>
>>> Joe Wolfe
>>> WA6RKN
>>> Reno, Nevada
>
```

3731. Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 14:43:39 UTC
From: kb1sth
Topic: 3716 Message: 3731

If anyone has pinout for the AC4 perhaps it could be posted in FILES section. Most interested in the pin assignment for the audio from the TX.
THX
Ivan
KB1STH

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Yes. Only the AC-3 was "subject" to modification.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> kb1sth wrote:
> > So...can a TR4CW or TR4CWRIT connected to AC4 send speaker output thru the pigtail. I would assume yes, based on the post below.
> > THX
> > 73
> > IVan
> > KB1STH
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Joe -
> >>
> >> As others have said, that pigtail is a speaker output when the AC-4 is
> >> used with the TR-3/4 transceivers. I believe the original thought was
> >> to have just one connector and one antenna lead to pull the radio out of
> >> the vehicle.
> >>
> >> One caveat.... The AC-3 power supply was designed for use with the
> >> TR-3, before the T-4X was designed, but the AC-3 was sold for the early
> >> T-4X transmitters. It had NO connection for keying an external
> >> amplifier, not even the nutsy two pin connector that was on the AC-4.
> >> So... There are more than a few AC-3 power supplies floating around out
> >> there that have had that little pigtail "repurposed" as an external amp
> >> keying connection.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>

> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> Joe wrote:
> >>
> >>> Both of my AC-4 power supplies, have an extra female RCA jack/pigtail coming
> >>> out of the power plug for the T4X-B.
> >>>
> >>> What is that plug for?
> >>>
> >>> Joe Wolfe
> >>> WA6RKN
> >>> Reno, Nevada
> >
>

3732. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 14:52:37 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 3732

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /AC-4 Power Supply Notes.pdf
Uploaded by : k4oah <k4oah@...>
Description : AC-4 Power Supply Notes

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/AC-4%20Power%20Supply%20Notes.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

k4oah <k4oah@...>

3733. Re: [DrakeRadio] Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 14:59:27 UTC
From: Jim Shorney
Topic: 3716 Message: 3733

On Mon, 31 May 2010 14:43:39 -0000, kb1sth wrote:

>If anyone has pinout for the AC4

http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm

Page 2

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3734. Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 16:05:11 UTC
From: kb1sth
Topic: 3716 Message: 3734

Thanks.
Reading the schematic the signal to RCA is on pins 7 and 12. Looks like 7 goes to ground. I'm wondering on what pin the center from TR comes from. THX
Ivan
KB1STH

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 31 May 2010 14:43:39 -0000, kb1sth wrote:
>
> >If anyone has pinout for the AC4
>
>
> http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm
>
> Page 2
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3735. Re: [DrakeRadio] Drake Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-05-31 18:44:32 UTC
From: lon brickley
Topic: 3713 Message: 3735

THANNKYOU LON
----- Original Message -----
From: Tim Kass
To: DrakeRadio@yahoogroups.com
Sent: Monday, May 31, 2010 12:01 AM
Subject: Re: [DrakeRadio] Drake Crystals

You'll need a 29.1 Mhz xtal... that will cover 18.0 - 18.5 Mhz on the Drake.. sorry but I don't have that one..

73, Tim K8WBL

--- On Sun, 5/30/10, lon brickley <lonafs@...t> wrote:

From: lon brickley <lonafs@...>
Subject: Re: [DrakeRadio] Drake Crystals
To: DrakeRadio@yahoogroups.com
Date: Sunday, May 30, 2010, 9:19 PM

tim...what crystal is necessary for 17mtrs....18.100 etc. thanx. w4afs
----- Original Message -----
From: Tim Kass
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 30, 2010 9:11 AM
Subject: [DrakeRadio] Drake Crystals

Drake crystals - 20.6 = covers 9.5 - 10.0 Mhz Short wave band..
26.6 = covers 15.0 - 15.5 Mhz Short wave band
38.1 = covers 27.0 - 27.5 Mhz CB band
39.1 = covers 28.0 - 28.5 Mhz Ham band
37.6 = covers 26.5 - 27.0 Mhz CB band

All crystals $15 plus $5 shipping.. bundle with several and no extra shipping costs. I take Paypal and MO.

73, Tim K8WBL K8WBL@...

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

3736. Re: [DrakeRadio] New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-01 00:42:37 UTC
From: Richard Knoppow
Topic: 3736 Message: 3736

----- Original Message -----
From: <DrakeRadio@yahoogroups.com>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, May 31, 2010 7:52 AM
Subject: [DrakeRadio] New file uploaded to DrakeRadio

>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the
> DrakeRadio
> group.
>
> File : /AC-4 Power Supply Notes.pdf
> Uploaded by : k4oah <k4oah@...>
> Description : AC-4 Power Supply Notes
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/DrakeRadio/files/AC-4%20Power%20Supply%20Notes.pdf
>
I just tried this and got this message: The requested
file or directory is not found on the server.
I'll try it again later, perhaps the system takes a bit
of time.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3737. looking for Drake users nets ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-01 13:35:37 UTC
From: arsnf7z
Topic: 3737 Message: 3737

I've been having way too much fun of late, buying and refurbishing Drake equipment. are there any dedicated "Drake users" nets where other afficionados of fine electronic equipment get together and chit-chat? just casual on-the-air banter about equipment of that era. Drake, Collins, Hallicrafters, National? it's been great to see many of these old rigs, rigs from my own beginnings, now falling into favour once again.
NF7Z, daniel

[Non-text portions of this message have been removed]

3738. Re: looking for Drake users nets ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-01 13:50:17 UTC
From: arsnf7z
Topic: 3737 Message: 3738

NF7Z Drake Rig <http://www.doublereef.net/drake2.jpg>

[Non-text portions of this message have been removed]

3739. Re: [DrakeRadio] New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-01 14:40:26 UTC
From: Forrest Plumstead
Topic: 3736 Message: 3739

Thanks for sharing Garey! Download wet just fine.

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
NAQCC Member # 3678

[Non-text portions of this message have been removed]

3740. Re: [DrakeRadio] New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-01 15:09:40 UTC
From: Richard Knoppow
Topic: 3736 Message: 3740

----- Original Message -----
From: "Forrest Plumstead" <fplum1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 01, 2010 7:40 AM
Subject: Re: [DrakeRadio] New file uploaded to DrakeRadio

> Thanks for sharing Garey! Download wet just fine.
>
> --
> Forrest Plumstead fplum1@...
> Plumstead and Associated Families:
> http://freepages.genealogy.rootsweb.com/~fplum/
> Ham Radio WB5HQO http://forrest.3h.com/main.html
> NAQCC Member # 3678

Tried again just now and it downloaded fine. For some
reason it didn't show up at all yesterday.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3741. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-02 17:48:14 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 3741

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /AC-4_Manual.pdf
Uploaded by : xjjb4x4 <xjjb4x4@...>
Description : AC-4 Manual

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/AC-4_Manual.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

xjjb4x4 <xjjb4x4@...>

3742. Re: [DrakeRadio] New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-02 18:16:32 UTC
From: Forrest Plumstead
Topic: 14 Message: 3742

Thank you for sharing!

On Wed, Jun 2, 2010 at 12:48 PM, <DrakeRadio@yahoogroups.com> wrote:

>
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the DrakeRadio
> group.
>
> File : /AC-4_Manual.pdf
> Uploaded by : xjjb4x4 <xjjb4x4@... <xjjb4x4%40yahoo.com>>
> Description : AC-4 Manual
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/DrakeRadio/files/AC-4_Manual.pdf
>
> To learn more about file sharing for your group, please visit:
>
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>
> xjjb4x4 <xjjb4x4@... <xjjb4x4%40yahoo.com>>
>
>
>
>

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
NAQCC Member # 3678

[Non-text portions of this message have been removed]

3743. Drake Manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-02 18:16:51 UTC
From: Garey Barrell
Topic: 3743 Message: 3743

FYI

Just about every Drake manual is available on Ron's site, WB4HFN.

<www.wb4hfn.com/DRAKE/DrakeManuals.htm>

Thanks Ron!

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3744. Re: Extra Pigtail

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-03 13:14:11 UTC
From: John
Topic: 3716 Message: 3744

Good information.

And to think I had looked at that pigtail pondering that someday I had to figure out how I could interface my Drake B-Twins and a Heathkit SB-220 linear amplifier with that! (Just thinking...I had not done anything about it yet.)

Thank you.

John
WB0RXL

--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
> I now have had one of my long time questions answered.
> Dan Galligan
> W3RXO
> dgalligan60 (at) mac (dot) com
> w3rxo (at) mac (dot) com
>
> When injustice becomes law, resistance becomes duty.
> Thomas Jefferson
>
> Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty, nor safety.
> Benjamin Franklin
>
> The price of freedom is eternal vigilance.
> Thomas Jefferson
>
>
>
>
> On May 30, 2010, at 5:09 PM, Joe wrote:
>
> So....instead of plugging the long speaker cord into the TR-3/4, it just
> plugs into the short pigtail and the speaker connection is made through the
> master power plug when it is plugged into the TR-3/4. Interesting.
>
> Thanks!
>
> Joe
>
> ----- Original Message -----
> From: "Jim Shorney" <jshorney@...>
> Subject: Re: [DrakeRadio] Extra Pigtail
>

>
>
> > It is not for use with the T-4any or R-4any. It is the speaker OUTPUT for
> > the
> > TR series transcievers only. It has no function on the seperates.
> >
> > http://www.wb4hfn.com/DRAKE/DrakeManuals/AC4/Manual_AC4.htm
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

3745. Re: Chassis cleanup

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-03 15:00:03 UTC
From: wb2hmg
Topic: 1918 Message: 3745

Grant:

I can't comment on the lettering, as I have never tackled that.

However, I did have some of the usual corrosion and even had some green oxidation. I had to clean it down to the steel chassis and then I re-plated it with copper. I can't remember what company I bought the solution and plating pen from (I think they were in Florida), but a few years ago it was about a $40 investment. It's not perfect, but it is a heck of a lot better than it was.

Frank
W2FAL

--- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@...> wrote:
>
> Thanks to all you guys for the information and advice. This is a
> great group, one of the best I've experienced on the web, a great
> source of information and help. I didn't realize this but owning
> Drake tube gear is a little bit like owning a Mercedes Benz 300 SLR
> Gull Wing Coupe - in my opinion there are no better radios.
>
> 73 Grant KT6L
>
> --- In DrakeRadio@yahoogroups.com, "Sprint" <sprint@> wrote:
> >
> > Are just 'cleaning up' the chassis or do you want to restore the radio?
> >
> >
>

3746. Re: Drake Manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-03 17:29:22 UTC
From: jb
Topic: 3743 Message: 3746

Good site. Can't remember where I got this one from tho. Have seen good and not so good copies. Thought it would be useful.

Have also seen sites disappear without notice, or worse yet, turn into pay sites. Nice to have copies on hand.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> FYI
>
> Just about every Drake manual is available on Ron's site, WB4HFN.
>
> <www.wb4hfn.com/DRAKE/DrakeManuals.htm>
>
> Thanks Ron!
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

3747. Re: [DrakeRadio] Re: Drake Manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-03 18:33:25 UTC
From: Garey Barrell
Topic: 3743 Message: 3747

JB -

Judging by the specks, it looks like the one on my CD's. :-)

Yeah, loss of Ron's site would be a real loss to the Drake community.
There are partial collections elsewhere, but none so complete. I wish
he had used a higher resolution to scan them, but, he got them done! I
reworked the scans that I made of the big schematics, in most cases they
are better than the originals. Several guys have said they printed them
out at a Kinko's, etc. in a 2' x 4' size.

Drake still has a fair collection, but I suspect it is disappearing
fast. Can't have them in too many places, as sources disappear overnight!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jb wrote:
> Good site. Can't remember where I got this one from tho. Have seen good and not so good
copies. Thought it would be useful.
>
> Have also seen sites disappear without notice, or worse yet, turn into pay sites. Nice to
have copies on hand.
>
> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> FYI
>>
>> Just about every Drake manual is available on Ron's site, WB4HFN.
>>
>> <www.wb4hfn.com/DRAKE/DrakeManuals.htm>
>>
>> Thanks Ron!
>>
>> --
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>

>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>

3748. FS: Chassis And Cabinets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-03 19:56:53 UTC
From: Bry Carling
Topic: 3748 Message: 3748

FOR SALE: Chassis And Cabinets for radio and electronics
construction etc.

New and used metal boxes, chassises, mostly in the
range of $2.00 to $6.00 each.

Some cool traditional cabinets and sloping cabinets for homebrewing.

New and used cabinets are suitable for building radio receivers,
transmitters, test gear etc. and range from $2.00 to $15.00

See web site for photos, dimensions and full descriptions of
these... while they last. Save money - combine for reduced shipping cost.

http://www.af4k.com/chassisandcabinets.htm

73 - Brian, AF4K

-~ø¤°°º¤ø~-"ßrÿ in FLÕRÎÐÁ"-~ø¤°°º¤ø~-

[Non-text portions of this message have been removed]

3749. PTO tension adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-04 19:48:23 UTC
From: arsnf7z
Topic: 3749 Message: 3749

in a perfect world, all the PTO's on my four Drakes would have about the same tension on the main tuning knob. they are close, but if there is an adjustment I could bring them all together. I recall mention that there is a way, though it wasn't necessarily recommended.

73's

NF7Z, daniel

3750. Re: [DrakeRadio] PTO tension adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-04 20:02:24 UTC
From: Garey Barrell
Topic: 3749 Message: 3750

Daniel -

There is a small allen set screw on the back end of the PTO lead screw. Later PTOs have a hole in the cover to allow adjustment, but I'd recommend removing the cover the first time you do it. It's not that it's NOT "recommended", just that you need to be careful to not disturb the component placement inside, hence removing the cover! Of course the earlier PTOs didn't have the hole, so ... :-)

The covers are relatively easy to remove, just takes patience. The spring clips on either side need to be "compressed" (the tines pushed toward the space between them). I find it best to use needle-nose pliers to move the clips one leg at a time just enough to clear the barb on the leg. Then holding pressure, (or inserting a small shim to retain the ground gained!,) compress the other leg of the same clip. Then tilt the cover "slightly" to loosen the grip of that clip and go to the other one. It's really a lot easier than it sounds, especially after you do it a time or two.

Depending upon the model, you may want to remove the tube directly behind the PTO to allow clearance to slide the cover straight back and off, again being careful to not disturb any components inside.

Don't overtighten the set screw, as this overloads the front ball bearings. Best to just take the "play" out of the MAIN tuning knob shaft so there is no lateral movement.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> in a perfect world, all the PTO's on my four Drakes would have about the same tension on the main tuning knob. they are close, but if there is an adjustment I could bring them all together. I recall mention that there is a way, though it wasn't necessarily recommended.
>
> 73's
>
> NF7Z, daniel
>
>

3751. Re: [DrakeRadio] PTO tension adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-04 20:42:00 UTC
From: Kris Merschrod
Topic: 3749 Message: 3751

Daniel,

The size is a 3/32" allen wrench. It is tricky, remove the cover as Garey says, plus remove the first tube. It takes a bit of patience so put it on a bench with a chair so that you can easily lean over it. Crank down gently and with each slight move, test for feel.
73,
Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Friday, June 04, 2010 3:48 PM
Subject: [DrakeRadio] PTO tension adjustment

in a perfect world, all the PTO's on my four Drakes would have about the same tension on the main tuning knob. they are close, but if there is an adjustment I could bring them all together. I recall mention that there is a way, though it wasn't necessarily recommended.

73's

NF7Z, daniel

[Non-text portions of this message have been removed]

3752. Re: Drake Manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-04 22:37:06 UTC
From: jb
Topic: 3743 Message: 3752

Yeah, this was such an improvement over the other copy I had. Not sure where I got that one either. Sorry, didn't mean to exploit your efforts. Had this before I got your CDs and didn't think to check and compare.

Nice work though! =)

God bless
73
jb
kg6biw

--- In DrakeRadio@...m, Garey Barrell <k4oah@...> wrote:
>
> JB -
>
> Judging by the specks, it looks like the one on my CD's. :-)
>
> Yeah, loss of Ron's site would be a real loss to the Drake community.
> There are partial collections elsewhere, but none so complete. I wish
> he had used a higher resolution to scan them, but, he got them done! I
> reworked the scans that I made of the big schematics, in most cases they
> are better than the originals. Several guys have said they printed them
> out at a Kinko's, etc. in a 2' x 4' size.
>
> Drake still has a fair collection, but I suspect it is disappearing
> fast. Can't have them in too many places, as sources disappear overnight!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> jb wrote:
> > Good site. Can't remember where I got this one from tho. Have seen good and not so good copies. Thought it would be useful.
> >
> > Have also seen sites disappear without notice, or worse yet, turn into pay sites. Nice to have copies on hand.
> >
> > God bless
> > 73
> > jb
> > kg6biw
> >

> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> FYI
> >>
> >> Just about every Drake manual is available on Ron's site, WB4HFN.
> >>
> >> <www.wb4hfn.com/DRAKE/DrakeManuals.htm>
> >>
> >> Thanks Ron!
> >>
> >> --
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
>

3753. FS -- Early two tube, silver border RV-4 AGN

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-04 23:54:28 UTC
From: Kris Merschrod
Topic: 3753 Message: 3753

Hello All - Back again - interested party fell through

This is a nice Drake accessory - provides a speaker, and a place for the AC-3 or AC-4 plus allows split operating for the TR-3 or TR-4 lines.

I have for sale this early RV-4, Two Tube version (OA2 and 12AU7) Later models were single tube. Face plate is very clean (has the silver trim around the perimeter), the cabinet is dull and scuffed in places. The chassis (copper plated) has the usual "freckles" and underneath in one corner it is "rusted." I have tried to use it with my late model TR-4CWx and it only works in one position and I can't figure out why.

Although I have the original speaker (it was buzzing) and will include it, I have installed a new 4 ohm speaker.

Who will give me $125 for it?

Photo from all angles via direct email

Kris (KM2KM)
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

3754. Re: [DrakeRadio] Re: Drake Manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-05 01:55:21 UTC
From: Garey Barrell
Topic: 3743 Message: 3754

Jb -

Not a problem. I "borrowed" it as well I guess. That part of the CDs
is just to put stuff on the CD that is available on the internet. The
annotated photos and parts lists I get a little testy about! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jb wrote:
> Yeah, this was such an improvement over the other copy I had. Not sure where I got that one either. Sorry, didn't mean to exploit your efforts. Had this before I got your CDs and didn't think to check and compare.
>
> Nice work though! =)
>
> God bless
> 73
> jb
> kg6biw
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> JB -
>>
>> Judging by the specks, it looks like the one on my CD's. :-)
>>
>> Yeah, loss of Ron's site would be a real loss to the Drake community.
>> There are partial collections elsewhere, but none so complete. I wish
>> he had used a higher resolution to scan them, but, he got them done! I
>> reworked the scans that I made of the big schematics, in most cases they
>> are better than the originals. Several guys have said they printed them
>> out at a Kinko's, etc. in a 2' x 4' size.
>>
>> Drake still has a fair collection, but I suspect it is disappearing
>> fast. Can't have them in too many places, as sources disappear overnight!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>

>>
>>
>> jb wrote:
>>
>>> Good site. Can't remember where I got this one from tho. Have seen good and not so good copies. Thought it would be useful.
>>>
>>> Have also seen sites disappear without notice, or worse yet, turn into pay sites. Nice to have copies on hand.
>>>
>>> God bless
>>> 73
>>> jb
>>> kg6biw
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>
>>>
>>>> FYI
>>>>
>>>> Just about every Drake manual is available on Ron's site, WB4HFN.
>>>>
>>>> <www.wb4hfn.com/DRAKE/DrakeManuals.htm>
>>>>
>>>> Thanks Ron!
>>>>
>>>> --
>>>> 73, Garey - K4OAH
>>>> Glen Allen, VA
>>>>
>>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>

3755. Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-05 01:40:03 UTC
From: COREY
Topic: 3755 Message: 3755

Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..

3756. Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-05 15:40:54 UTC
From: PaulG
Topic: 3755 Message: 3756

Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.

Paul K3PG

http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@...> wrote:
>
> Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
>

3757. Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-05 22:30:30 UTC
From: COREY
Topic: 3755 Message: 3757

Thanks Paul, The L4 is running twin 3-400's...So it's ok to see the 100Ma, even in the un-keyed position? Guess I didn't mention that part, I'm not use to seeing that. Have been thinking about putting the Mod in from Gary Drommond K40R electronic bias switching..Thanks again, 73

--- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@...> wrote:
>
> Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.
>
> Paul K3PG
>
> http://pgerhardt.blogspot.com
>
> --- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@> wrote:
> >
> > Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
> >
>

3758. Re: [DrakeRadio] Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 03:23:17 UTC
From: Larry Taft
Topic: 3755 Message: 3758

Sounds like the relay is still pulled in. Unplug the VOX relay line in the back of the L-4 and the plate current should be zero. Flip the plug over and reconnect. The 4 series have an isolated set of contacts and the wires came out through the AC-4 supply to the L-4. Since there was no grounded side the L-4 worked fine. TR-7 and other rigs have one side grounded on their VOX relay line so now it is critical to make sure that the VOX relay plug is matched to the L-4 ground.

If the plate current still reads with the relay line unplugged then there is a much more serious problem that needs to be fixed.

73, Larry K2LT
drakerepair.com

COREY wrote:
> Thanks Paul, The L4 is running twin 3-400's...So it's ok to see the 100Ma, even in the un-keyed position? Guess I didn't mention that part, I'm not use to seeing that. Have been thinking about putting the Mod in from Gary Drommond K40R electronic bias switching..Thanks again, 73
>
> --- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@...> wrote:
>
>> Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.
>>
>> Paul K3PG
>>
>> http://pgerhardt.blogspot.com
>>
>> --- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@> wrote:
>>
>>> Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
>>>
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> Yahoo! Groups Links
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3759. Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 03:42:33 UTC
From: COREY
Topic: 3755 Message: 3759

Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73

--- In DrakeRadio@yahoogroups.com, Larry Taft <ltaft@...> wrote:
>
> Sounds like the relay is still pulled in. Unplug the VOX relay line in
> the back of the L-4 and the plate current should be zero. Flip the plug
> over and reconnect. The 4 series have an isolated set of contacts and
> the wires came out through the AC-4 supply to the L-4. Since there was
> no grounded side the L-4 worked fine. TR-7 and other rigs have one side
> grounded on their VOX relay line so now it is critical to make sure
> that the VOX relay plug is matched to the L-4 ground.
>
> If the plate current still reads with the relay line unplugged then
> there is a much more serious problem that needs to be fixed.
>
> 73, Larry K2LT
> drakerepair.com
>
> COREY wrote:
> > Thanks Paul, The L4 is running twin 3-400's...So it's ok to see the 100Ma, even in the un-keyed position? Guess I didn't mention that part, I'm not use to seeing that. Have been thinking about putting the Mod in from Gary Drommond K40R electronic bias switching..Thanks again, 73
> >
> > --- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@> wrote:
> >
> >> Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.
> >>
> >> Paul K3PG
> >>
> >> http://pgerhardt.blogspot.com
> >>
> >> --- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@> wrote:
> >>
> >>> Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
> >>>
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3760. Re: [DrakeRadio] Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 03:57:18 UTC
From: Larry Taft
Topic: 3755 Message: 3760

Corey, What plate current is there with the VOX relay plug pulled out?
Larry

COREY wrote:
> Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73
>
> --- In DrakeRadio@yahoogroups.com, Larry Taft <ltaft@...> wrote:
>
>> Sounds like the relay is still pulled in. Unplug the VOX relay line in
>> the back of the L-4 and the plate current should be zero. Flip the plug
>> over and reconnect. The 4 series have an isolated set of contacts and
>> the wires came out through the AC-4 supply to the L-4. Since there was
>> no grounded side the L-4 worked fine. TR-7 and other rigs have one side
>> grounded on their VOX relay line so now it is critical to make sure
>> that the VOX relay plug is matched to the L-4 ground.
>>
>> If the plate current still reads with the relay line unplugged then
>> there is a much more serious problem that needs to be fixed.
>>
>> 73, Larry K2LT
>> drakerepair.com
>>
>> COREY wrote:
>>
>>> Thanks Paul, The L4 is running twin 3-400's...So it's ok to see the 100Ma, even in the un-keyed position? Guess I didn't mention that part, I'm not use to seeing that. Have been thinking about putting the Mod in from Gary Drommond K40R electronic bias switching..Thanks again, 73
>>>
>>> --- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@> wrote:
>>>
>>>
>>>> Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.
>>>>
>>>> Paul K3PG
>>>>
>>>> http://pgerhardt.blogspot.com
>>>>
>>>> --- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@> wrote:
>>>>
>>>>

>>>>> Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
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3761. Re: [DrakeRadio] Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 03:59:02 UTC
From: Jim Shorney
Topic: 3755 Message: 3761

On Sun, 06 Jun 2010 03:42:33 -0000, COREY wrote:

>Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73

I doubt that the soft-start is the problem. It would be in the primary side of the PS, and your problem is in the tube circuit. You say otherwise it works fine, so something is causing a grid current indication in RX. The tubes are not getting cutoff bias for some reason. Dirty relay contact, miswire, short, bad component ... ?? You need to understand how the circuit is designed to work normally, then do some troubleshooting - taking all appropriate precautions when working with high voltage. This stuff can kill you. Seriously.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3762. Re: [DrakeRadio] Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 03:59:48 UTC
From: Jim Shorney
Topic: 3755 Message: 3762

Oops, I meant "plate current indication"...

On Sat, 05 Jun 2010 22:59:02 -0500, Jim Shorney wrote:

>On Sun, 06 Jun 2010 03:42:33 -0000, COREY wrote:
>
>>Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73
>
>
>I doubt that the soft-start is the problem. It would be in the primary side of
>the PS, and your problem is in the tube circuit. You say otherwise it works
>fine, so something is causing a grid current indication in RX. The tubes are
>not getting cutoff bias for some reason. Dirty relay contact, miswire, short,
>bad component ... ?? You need to understand how the circuit is designed to work
>normally, then do some troubleshooting - taking all appropriate precautions
>when working with high voltage. This stuff can kill you. Seriously.
>
>73
>
>-Jim
>
>--
>Ham Radio NU0C
>Lincoln, Nebraska, U.S.S.A.
>TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3764. Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 13:40:45 UTC
From: COREY
Topic: 3755 Message: 3764

Larry, Still get the 100ma of Plate current. Everything else seems to work fine. I even made a very short contact driving it softly with Drake B-line. Got a great report. Could it be in the 50k Bias resistors in the supply? Appreciate you, & Everyones help, I'm still in the learning process...I have both a sb200 & sb220 that I never had this kind of problem with. Thanks

--- In DrakeRadio@yahoogroups.com, Larry Taft <ltaft@...> wrote:
>
> Corey, What plate current is there with the VOX relay plug pulled out?
>
>
> COREY wrote:
> > Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73
> >
> > --- In DrakeRadio@yahoogroups.com, Larry Taft <ltaft@> wrote:
> >
> > >> Sounds like the relay is still pulled in. Unplug the VOX relay line in
> > >> the back of the L-4 and the plate current should be zero. Flip the plug
> > >> over and reconnect. The 4 series have an isolated set of contacts and
> > >> the wires came out through the AC-4 supply to the L-4. Since there was
> > >> no grounded side the L-4 worked fine. TR-7 and other rigs have one side
> > >> grounded on their VOX relay line so now it is critical to make sure
> > >> that the VOX relay plug is matched to the L-4 ground.
> > >>
> > >> If the plate current still reads with the relay line unplugged then
> > >> there is a much more serious problem that needs to be fixed.
> > >>
> > >> 73, Larry K2LT
> > >> drakerepair.com
> > >>
> > >> COREY wrote:
> > >>
> > >>> Thanks Paul, The L4 is running twin 3-400's...So it's ok to see the 100Ma, even in the un-keyed position? Guess I didn't mention that part, I'm not use to seeing that. Have been thinking about putting the Mod in from Gary Drommond K40R electronic bias switching..Thanks again, 73
> > >>>
> > >>> --- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@> wrote:
> > >>>
> > >>>
> > >>>> Corey a pair of 3-500Z's running on a Drake PS should probably be drawing about 100ma or more of idle current. If anything it is a bit low for SSB position.

> >>>>
> >>>> Paul K3PG
> >>>>
> >>>> http://pgerhardt.blogspot.com
> >>>>
> >>>> --- In DrakeRadio@yahoogroups.com, "COREY" <kc0yns@> wrote:
> >>>>
> >>>>
> >>>> Greeting to the group, I'm still having an issue with a older L4 amp, Getting 100MA of plate current in idle mode, Already tried changing vox polarity. I did have someone install a softstart for me, Anyone have any ideas? Thank you in advance, Sure am glad this group is here..73, God Bless..
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3765. Re: Drake L4 Amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 13:57:33 UTC
From: COREY
Topic: 3755 Message: 3765

Thanks Jim, Your correct. Maybe it's time to find someone in the area of central Missouri with more experience. I'm trying to learn all this, But not at the cost of life, I do understand the High voltage, But This is over my head...Thanks, & God Bless, Corey

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sun, 06 Jun 2010 03:42:33 -0000, COREY wrote:
>
> >Larry, Have already tried changing the polarity of the vox plug, It didn't help...Other than this problem the amp works great...Have already rebuilt the power supply. Not sure If there is something that I did that caused this. Also put a softstart in, Maybe I should take the softstart out and see if that changes anything, Thanks for your help...73
> >
> >
> I doubt that the soft-start is the problem. It would be in the primary side of
> the PS, and your problem is in the tube circuit. You say otherwise it works
> fine, so something is causing a grid current indication in RX. The tubes are
> not getting cutoff bias for some reason. Dirty relay contact, miswire, short,
> bad component ... ?? You need to understand how the circuit is designed to work
> normally, then do some troubleshooting - taking all appropriate precautions
> when working with high voltage. This stuff can kill you. Seriously.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
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> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3766. Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 21:10:00 UTC
From: jkimento
Topic: 3766 Message: 3766

I bought a drake sw-4 receiver at a ham fest today
serial #10
add this to my drake small collection
my question is has anyone found a replacement for the blue filters
I dont really want to use blue led's or paint the lamps

Is there a source for the blue filters

thanks
jerry
wb9jfr

3767. Re: [DrakeRadio] Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 21:21:54 UTC
From: Jim Shorney
Topic: 3766 Message: 3767

On Sun, 06 Jun 2010 21:10:00 -0000, jkimento wrote:

>Is there a source for the blue filters

The answer is yes. There are about as many ideas as there are Drakes. See here:

http://www.mail-archive.com/search?q=blue+filter&l=drakelist%40zerobeat.net

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3768. Re: Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 23:24:07 UTC
From: jkimento
Topic: 3766 Message: 3768

Thanks very much fo rthe quick response

jerry

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sun, 06 Jun 2010 21:10:00 -0000, jkimento wrote:
>
> >Is there a source for the blue filters
>
> The answer is yes. There are about as many ideas as there are Drakes. See here:
>
> http://www.mail-archive.com/search?q=blue+filter&l=drakelist%40zerobeat.net
>
> 73
>
> -Jim
>
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3769. Bob N3JQD TR4 problems.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 22:58:29 UTC
From: bobsalmon@juno.com
Topic: 3769 Message: 3769

I'm new to your group,but, not to Drake equipment. I have two "4-lines"
in operation and just bought a TR4.

The TR4 works as expected on 80m. I just spoke with Kris, KM2KM, for an hour. He said that the audio was good and signal was steady.

My TR4 is s/n 28005 with a functioning AC4 PS. My trouble begins when I switch from 80 to any other band. For example, on 40m I only hear some sound when I switch it to USB mode. LSB is almost silent, Just very light white noise sound. No actual QSO's can be heard. This is also true for the other bands.

The next problem is when tuning the output. On 80m for instance where the rig works. I set the proper Band and Sideband controls per the operators manual. There isn't any output. But, as I switch off from X-CW, to SSB , it mometarily keys the xmit. Just briefly. So, to get any output I've been humming the word "5" over and over.

Any ideas would be very much appreciated.
Thanks ahead of time.
Bob N3JQD

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3770. Re: [DrakeRadio] Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 23:42:15 UTC
From: Joe
Topic: 3766 Message: 3770

Hi Jerry!

Funny you should ask this question!

I **just** obtained the gel sheet and am in the process of replacing the filters in all my radios.

The gel you need, is Lee Lighting, #172, Lagoon Blue. You should be able to find it at any theatrical lighting supply house. The cost will be in the vicinity of $7.50 plus shipping and/or tax. It will be a 24" x 22" sheet.

If you have a problem finding it, You can contact Bright Productions, 1289 Spice Islands, Sparks, Nevada, 89431. 775 331-1800. That gel is a stock item.

Good luck and have fun!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "jkimento" <jerrywk1@...>
Subject: [DrakeRadio] Drake sw-4

> my question is has anyone found a replacement for the blue filters
> I dont really want to use blue led's or paint the lamps
>
> Is there a source for the blue filters

3771. Re: [DrakeRadio] Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 23:43:37 UTC
From: Richard Knoppow
Topic: 3766 Message: 3771

----- Original Message -----
From: "jkimento" <jerrywk1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 06, 2010 2:10 PM
Subject: [DrakeRadio] Drake sw-4

>I bought a drake sw-4 receiver at a ham fest today
> serial #10
> add this to my drake small collection
> my question is has anyone found a replacement for the blue
> filters
> I dont really want to use blue led's or paint the lamps
>
> Is there a source for the blue filters
>
> thanks
> jerry
> wb9jfr
>
There is undoubtedly a lighting gel that will match
pretty closely. The main supplier of gels currently is
Rosco, see: http://www.rosco.com/
for more. A Google search for "lighting gels" will find
retailers. Rosco has a sample booklet that will help match
the color. You might try Calumet Photo
http://www.calumetphoto.com they sell Rosco filters retail
and could help decide what you need. The stuff is not
expensive, less than $10 US will get you a lifetime supply.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3772. Re: [DrakeRadio] Drake sw-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-06 23:46:18 UTC
From: Richard Knoppow
Topic: 3766 Message: 3772

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 06, 2010 4:42 PM
Subject: Re: [DrakeRadio] Drake sw-4

> Hi Jerry!
>
> Funny you should ask this question!
>
> I **just** obtained the gel sheet and am in the process of
> replacing the
> filters in all my radios.
>
> The gel you need, is Lee Lighting, #172, Lagoon Blue. You
> should be able to
> find it at any theatrical lighting supply house. The cost
> will be in the
> vicinity of $7.50 plus shipping and/or tax. It will be a
> 24" x 22" sheet.
>
> If you have a problem finding it, You can contact Bright
> Productions, 1289
> Spice Islands, Sparks, Nevada, 89431. 775 331-1800. That
> gel is a stock
> item.
>
> Good luck and have fun!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada

I just posted a reply suggesting Rosco filters, Lee is
the other maker and either should have the right color plus
lighting filters tend to be fade resistant.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3773. Drake L4 vs. L4B....the difference

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 02:30:53 UTC
From: kb1sth
Topic: 3773 Message: 3773

Been unable to determine the difference.
Info would be appreciated.
Thanks
Ivan
KB1STH
73

3774. Thanks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 02:34:43 UTC
From: jkimento
Topic: 3 Message: 3774

Thanks to all who answered my filter question

jerry
wb9jfr

3775. Re: [DrakeRadio] Bob N3JQD TR4 problems.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 02:50:43 UTC
From: Larry Taft
Topic: 3769 Message: 3775

Bob,

Great old rig, lots of them are still on the air especially in the
winter months when the extra heat of the tubes is appreciated in the shack.

First problem: On 80 tune in the calibrate signal. Switch to the other
sideband and retune in the calibrate signal. The S meter levels should
be equal. This checks the filters to be sure both are working. Switch
to 20 meters, and tune in the calibrate signal. This test shows the
receiver is working in its "single conversion" mode. This is why 20
tunes in reverse.

Switch to 40 and tune in the calibrator. If there is no signal then
something is wrong or the crystal for 40 is missing. This is the
"double conversion" mode which is also used for 15 and 10 meters with
appropriate crystals.

Second problem: Unlike the "Twins" there is no separate Tune position
so the sideband switch must be placed in the X position to the right as
you are tuning the rig in the CW mode. If a key is plugged in it must
be closed too.

Let me know how it goes.

73, Larry K2LT
drakerepair.com 800-687-9161

bobsalmon@... wrote:
> I'm new to your group,but, not to Drake equipment. I have two "4-lines"
> in operation and just bought a TR4.
>
> The TR4 works as expected on 80m. I just spoke with Kris, KM2KM, for an hour. He said
> that the audio was good and signal was steady.
>
> My TR4 is s/n 28005 with a functioning AC4 PS. My trouble begins when I switch from 80
> to any other band. For example, on 40m I only hear some sound when I switch it to USB
> mode. LSB is almost silent, Just very light white noise sound. No actual QSO's can be
> heard. This is also true for the other bands.
>
> The next problem is when tuning the output. On 80m for instance where the rig works. I
> set the proper Band and Sideband controls per the operators manual. There isn't any
> output. But, as I switch off from X-CW, to SSB , it mometarily keys the xmit. Just
> briefly. So, to get any output I've been humming the word "5" over and over.
>
> Any ideas would be very much appreciated.
> Thanks ahead of time.
> Bob N3JQD

>
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3776. RE: [DrakeRadio] Drake L4 vs. L4B....the difference

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 11:31:15 UTC
From: jimc@pwrone.com
Topic: 3773 Message: 3776

Ivan,
The L4 had 3-400Z tubes while the L4B had 3-500Z tubes. The L4B also has the front panel AGC control knob/switch.

Best Regards,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630)-443-6500
Fax: (630)-443-6505

-----Original Message-----
From: "kb1sth" <KB1STH@...>
Sent: Sunday, June 6, 2010 9:30pm
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake L4 vs. L4B....the difference

Been unable to determine the difference.
Info would be appreciated.
Thanks
Ivan
KB1STH
73

[Non-text portions of this message have been removed]

3777. Re: [DrakeRadio] Bob N3JQD TR4 problems.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 15:54:56 UTC
From: bobsalmon@juno.com
Topic: 3769 Message: 3777

Larry,
Thank you.
I'll try those steps this evening and report back to you.
I hope that you don't mind me asking questions of you? I'm a real Drake enthusiast. Check my QRZ bio and photo. I'll be adding the TR4 to the line up soon.
The Drake interest is actually a sunset of the Amateur Radio hobby.

Thanks,
Bob N3JQD

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3778. Re: Drake L4 vs. L4B....the difference

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 16:46:41 UTC
From: Ralph
Topic: 3773 Message: 3778

--- In DrakeRadio@yahoogroups.com, "kb1sth" <KB1STH@...> wrote:
>
> Been unable to determine the difference.
> Info would be appreciated.
> Thanks
> Ivan
> KB1STH
> 73
>

The supplied tubes are differant. L4 used the 3-400 and the B uses the 3-500. The B has an AGC control that also has an in/out switch for the amp. The AGC control/switch is moved from the back of the L4 to the frount or the B. Breaks the circuit to the antenna relay.

One big differance is the B version has added positions to the meter switch that includes a built in wattmeter that reads 3000 watts forward, 300 forward and 300 reflected. The L4 just has a relative power position with the adjusting pot on the back of the amp.

3779. Re: [DrakeRadio] Bob N3JQD TR4 problems.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 16:53:02 UTC
From: Kris Merschrod
Topic: 3769 Message: 3779

Good afternoon Bob,

I thought that you would be swamped with suggestions by now.

Kris
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: <bobsalmon@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 07, 2010 11:54 AM
Subject: Re: [DrakeRadio] Bob N3JQD TR4 problems.

> Larry,
> Thank you.
> I'll try those steps this evening and report back to you.
> I hope that you don't mind me asking questions of you? I'm a real Drake
> enthusiast. Check my QRZ bio and photo. I'll be adding the TR4 to the
> line up soon.
> The Drake interest is actually a sunset of the Amateur Radio hobby.
>
> Thanks,
> Bob N3JQD
>
> ~~~~~~
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3780. Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 17:12:48 UTC
From: John
Topic: 3780 Message: 3780

Greetings.

On another site I found the following comment:

"Best of my knowledge Drake always used blue filter material. As most of use has witnessed over the years with age the blue filter material would fade in the area of the #47 lamp and the white plastic dial background would yellow. The result was a green colored dial background. The S meter would appear as no filter was installed at all because of the fading, just colorless lamp light."

When I first acquired my used Drake B-twins, they both had plain white dials. I've been trying to remember other Drake radios I have seen over the years and the first time I can remember seeing a blue dial was on the TR-7 series. Down in Quito they were throwing a SPR-4 out - which now I wish I had rescued. But I seem to remember that it also had a white dial, albeit slightly discolored.

Can anyone help by clarifying this bit of history?

Thank you.

John
WB0RXL

3781. Two Compatability Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 17:13:31 UTC
From: kb1sth
Topic: 3781 Message: 3781

I have a Drake TR4CW/RIT and a RV4. Just got them. Will the RV4 work ok with this rig. It is not the RV4C, just RV4.

I have a chance to buy a Drake DC3 power supply. Is it the same as the DC4 and can I use it as is with the TR4CW/RIT and the twins (R4B & T4XB.

Thanks & 73
Ivan
KB1STH

3782. Re: Drake L4 vs. L4B....the difference

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 18:01:55 UTC
From: kb1sth
Topic: 3773 Message: 3782

Thanks for the info on the differences. Much appreciated.
73
Ivan
KB1STH

--- In DrakeRadio@yahoogroups.com, "Ralph" <ku4pt@...> wrote:
>
>
>
> --- In DrakeRadio@yahoogroups.com, "kb1sth" <KB1STH@> wrote:
> >
> > Been unable to determine the difference.
> > Info would be appreciated.
> > Thanks
> > Ivan
> > KB1STH
> > 73
> >
>
> The supplied tubes are differant. L4 used the 3-400 and the B uses the 3-500. The B has an AGC control that also has an in/out switch for the amp. The AGC control/switch is moved from the back of the L4 to the frount or the B. Breaks the circuit to the antenna relay.
>
> One big differance is the B version has added positions to the meter switch that includes a built in wattmeter that reads 3000 watts forward, 300 forward and 300 reflected. The L4 just has a relative power position with the adjusting pot on the back of the amp.
>

3783. Re: [DrakeRadio] Two Compatability Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-07 23:07:55 UTC
From: Paul Pollock
Topic: 3781 Message: 3783

To Ivan KB1STH,

As far as I've read, the RV-4 had a 2 and 3 tube variant, but it works identically to the RV-4c which is solid state. The RV-3 is a 4-tube design, but will also work, with mild modification <grin>.

I have a Covelli refurbished TR-4 with a RV-3. The whole thing works great! I was lucky in that my RV-3 had already been properly modified, and the tubes still work. I use the RV-3 because I prefer the audio from its' very old speaker to the audio from my MS-4 speaker.

The DC-3 should work (slightly different design, but work alike). However, it only has enough power to operate one transmitter/transceiver at a time. Don't attempt to parallel them. And because it was designed for the tr-3 transceiver era, it probably does not have the speaker wire in the power-supply harness to the radio, as the AC-4/DC-4 does.

I'm just starting out with Drake too, so I might be erroneous at points. Hope the info is of use, have fun and good luck!

-Paul Pollock
KD7BWB

On Jun 7, 2010, at 10:13 AM, kb1sth wrote:

> I have a Drake TR4CW/RIT and a RV4. Just got them. Will the RV4 work ok with this rig. It is not the RV4C, just RV4.
>
> I have a chance to buy a Drake DC3 power supply. Is it the same as the DC4 and can I use it as is with the TR4CW/RIT and the twins (R4B & T4XB.
>
> Thanks & 73
> Ivan
> KB1STH
>
>

[Non-text portions of this message have been removed]

3784. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 00:15:55 UTC
From: Joe
Topic: 3780 Message: 3784

Welp...

Today, I picked up a 4 pack of Number 44 bulbs for my B Line.

Gotta say, BOY!! DOES THAT MAKE A DIFFERENCE!!!

Nice and bright...good color blue.....Well worth the $3,86 spent.

Now to replace the blue film in the 2 meters. Not real excited about pulling the whole faceplate to remove the meter, but it is just time consuming, doesn't look difficult. It will be worth it in the end....I'll take pics when I job is complete and post them..so you LED weenies can compare! <<GRIN>>

73's all!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "John" <wb0rxl@...>
Subject: [DrakeRadio] Drake Blue Filter History

> "Best of my knowledge Drake always used blue filter material. As most of
> use has witnessed over the years with age the blue filter material would
> fade in the area of the #47 lamp and the white plastic dial background
> would yellow. The result was a green colored dial background. The S meter
> would appear as no filter was installed at all because of the fading, just
> colorless lamp light."

3785. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 00:51:16 UTC
From: Richard Knoppow
Topic: 3780 Message: 3785

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 07, 2010 5:15 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> Welp...
>
> Today, I picked up a 4 pack of Number 44 bulbs for my B
> Line.
>
> Gotta say, BOY!! DOES THAT MAKE A DIFFERENCE!!!
>
> Nice and bright...good color blue.....Well worth the $3,86
> spent.
>
> Now to replace the blue film in the 2 meters. Not real
> excited about
> pulling the whole faceplate to remove the meter, but it is
> just time
> consuming, doesn't look difficult. It will be worth it in
> the end....I'll
> take pics when I job is complete and post them..so you LED
> weenies can
> compare! <<GRIN>>
>
> 73's all!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

The No.44 is higher wattage than the No.47 and is
brighter. I think it may also be somewhat longer lived.
There is another lamp, someone will remember the number,
which is higher voltage and has perhaps ten times the life
if either of the above with some reduction of brightness.
When disassembling the front panel be careful not to
lose the spacers under the screws. While you could make new
ones its better if the originals are not lost. They have a
way of falling out. Take the panel off with the front of the
radio facing up.
BTW, I often work in a shallow box to catch any small
parts that drop off. I do this with cameras and other small
stuff. Another trick when working on small assemblies is to

work in a plastic bag which will catch any springs that go flying. You can work in a perfectly clean, empty, room and still have parts disappear:-(

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3786. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 01:07:19 UTC
From: Jim Shorney
Topic: 3780 Message: 3786

On Mon, 7 Jun 2010 17:51:16 -0700, Richard Knoppow wrote:

>You can work in a perfectly clean, empty, room and
>still have parts disappear:-(

There's a spacetime warp zone 1/2 inch above the floor of any room where such detail work is being done. That's where those screws go that you SEE fall to the floor, and you HEAR the spot they hit the floor at, but they can't be found anywhere within 500 yards of that spot.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3787. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 01:16:35 UTC
From: Jim Shorney
Topic: 3780 Message: 3787

On Mon, 07 Jun 2010 20:07:19 -0500, Jim Shorney wrote:

>spacetime warp zone

Fogot to mention, that's also likely the same place those missing socks go
after you "lose" them in the dryer.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3788. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 03:10:09 UTC
From: Richard Knoppow
Topic: 3780 Message: 3788

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 07, 2010 6:07 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> On Mon, 7 Jun 2010 17:51:16 -0700, Richard Knoppow wrote:
>
>>You can work in a perfectly clean, empty, room and
>>still have parts disappear:-(
>
>
> There's a spacetime warp zone 1/2 inch above the floor of
> any room where such
> detail work is being done. That's where those screws go
> that you SEE fall to
> the floor, and you HEAR the spot they hit the floor at,
> but they can't be found
> anywhere within 500 yards of that spot.
>
> 73
>
> -Jim

I think I have faries or gemlins who get curious about
stuff and make it disappear and then return it later. I
dropped a pencil the other day, I _felt_ it hit my foot. Not
there, got on all fours and searched, nothing. Next day
there it was right under the table where I was sitting. I
swear I searched that exact spot several times. I've also
found small parts, screws and washers, weeks or even months
later.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3789. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 03:13:01 UTC
From: Richard Knoppow
Topic: 3780 Message: 3789

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, June 07, 2010 6:16 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> On Mon, 07 Jun 2010 20:07:19 -0500, Jim Shorney wrote:
>
>>spacetime warp zone
>
>
> Fogot to mention, that's also likely the same place those
> missing socks go
> after you "lose" them in the dryer.
>
> 73
>
> -Jim
>
BTW, odd socks, especially the longer sweat sock type,
work like a charm for using up bits of soap. Stuff them into
the sock, you get it wet and use it was a sort of washcloth.
The sock filters any stuff on the soap and stays clean
itself. Also, its easy to find it you drop it. I keep one of
these in my shower.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3790. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 03:31:57 UTC
From: Jim Shorney
Topic: 3780 Message: 3790

On Mon, 7 Jun 2010 20:10:09 -0700, Richard Knoppow wrote:

>I think I have faries or gemlins who get curious about
>stuff and make it disappear and then return it later.

I've heard they like shiney things. A local mystic advised me to leave a bribe of some pocket change and ask them to return the missing parts. So far, they like the parts better than the change...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3791. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 03:33:01 UTC
From: Jim Shorney
Topic: 3780 Message: 3791

On Mon, 7 Jun 2010 20:13:01 -0700, Richard Knoppow wrote:

>BTW, odd socks, especially the longer sweat sock type,
>work like a charm for using up bits of soap.

Good tip, I'll remember that. My old socks tend to end up as oil rags in the trunk or under the hood of my car.

73

-Jim (I wouldn't wipe down a Drake with one...)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3792. MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 18:57:20 UTC
From: arsnf7z
Topic: 3792 Message: 3792

or, the frustration of finding a MS-4 speaker replacement.

seems simple enough. the old 5x7 speaker was a replacement of a replacement, and after all these years the rubber had decayed into dust. this particular speaker replacement was a Jensen with a 10oz magnet and sounded really good. had a nice round bottom-end that jazzed up AM signals. reminded me of the old and huge speakers of the National, Hallicrafters, and Hammarlund days. remember those boxes?

I got on Amazon and found a BOSS 5x7 speaker for $10 that looked like a reasonable first attempt for replacement. unfortunately, newer speakers are more oval (actually, more circular) and the height dimension is generally greater (by about .25") than the MS-4 cabinet affords. for testing, I snipped off a bit of the frame and installed it, just to see how it sounded. I can't say I am impressed. it's mostly lows, and muddy. so, I started looking at alternative speakers from Alpine, JBL, Infinity .. but they all seemed to be just a tad too big to fit, or the tweeter sticks out beyond the face.

I have had a philosophical objection to buying anything from Radio Shack, though I heard there used to be a replacement available. I couldn't find it in the catalog listing, and to be honest, I would like to use a better grade speaker.

has anyone had luck finding a good replacement speaker, that sounds good and fits without modifications? I have found a few high-end variants that look to fit (if barely), but they're ~$60 per speaker and overkill.

73's

NF7Z, daniel

3793. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 19:06:47 UTC
From: LEE BAHR
Topic: 3792 Message: 3793

Why not have your Jenson speaker re-coned.

Lee, w0vt

----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 08, 2010 1:57 PM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

or, the frustration of finding a MS-4 speaker replacement.

seems simple enough. the old 5x7 speaker was a replacement of a replacement, and after all these years the rubber had decayed into dust. this particular speaker replacement was a Jensen with a 10oz magnet and sounded really good. had a nice round bottom-end that jazzed up AM signals. reminded me of the old and huge speakers of the National, Hallicrafters, and Hammarlund days. remember those boxes?

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73's

NF7Z, daniel

[Non-text portions of this message have been removed]

3794. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 19:27:51 UTC
From: Paul Kraemer
Topic: 3792 Message: 3794

Daniel
I share your frustration
The speakers with the extended frequency response manufactured today for automotive market just do not do it for me. I don't care how "good" they are, they were designed for a different venue driven by a totally different source and, IMHO, will not sound as good on the ham rig as that old 6 or 5X7 or 6X9 with the alnico magnet.
One thing I have studied a bit is to examine the response curve of the vintage speakers and compare it to what I measure with other speakers available today. A pair of 3" cheapies salvaged from a low end tv set is not a bad place to start.
A friend utilized an alternative with a 15 band graphic equalizer to drive a "hi fidelity" amp and speaker with the vintage response derived from the equalizer.
I came by these observations rather early in ham radio when I got my first R4. I did not have a MS-4 and I assumed that a metal box of the same size fitted with a pair of 5" high quality, extended response drivers would sound terriffic. It did not and I soon acquired an MS-4
Jensen does manufacture a couple of vintage speakers but unfortunately they are only available in 10" and larger
Paul K0UYA
----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 08, 2010 1:57 PM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

> or, the frustration of finding a MS-4 speaker replacement.
>
> seems simple enough. the old 5x7 speaker was a replacement of a
> replacement, and after all these years the rubber had decayed into dust.
> this particular speaker replacement was a Jensen with a 10oz magnet and
> sounded really good. had a nice round bottom-end that jazzed up AM
> signals. reminded me of the old and huge speakers of the National,
> Hallicrafters, and Hammarlund days. remember those boxes?
>
> I got on Amazon and found a BOSS 5x7 speaker for $10 that looked like a
> reasonable first attempt for replacement. unfortunately, newer speakers
> are more oval (actually, more circular) and the height dimension is
> generally greater (by about .25") than the MS-4 cabinet affords. for
> testing, I snipped off a bit of the frame and installed it, just to see
> how it sounded. I can't say I am impressed. it's mostly lows, and muddy.
> so, I started looking at alternative speakers from Alpine, JBL, Infinity
> .. but they all seemed to be just a tad too big to fit, or the tweeter
> sticks out beyond the face.

>
> I have had a philosophical objection to buying anything from Radio Shack,
> though I heard there used to be a replacement available. I couldn't find
> it in the catalog listing, and to be honest, I would like to use a better
> grade speaker.
>
> has anyone had luck finding a good replacement speaker, that sounds good
> and fits without modifications? I have found a few high-end variants that
> look to fit (if barely), but they're ~$60 per speaker and overkill.
>
> 73's
>
> NF7Z, daniel
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3795. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 20:21:03 UTC
From: N9JCQ@aol.com
Topic: 3792 Message: 3795

Why couldn't you get the original speaker re-coned? There are several companies out there that perform this service.

-----Original Message-----
From: Paul Kraemer <elespe@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jun 8, 2010 2:27 pm
Subject: Re: [DrakeRadio] MS-4 speaker anarchy ...

Daniel
I share your frustration
The speakers with the extended frequency response manufactured today for automotive market just do not do it for me. I don't care how "good" they are, they were designed for a different venue driven by a totally different source and, IMHO, will not sound as good on the ham rig as that old 6 or 5X7 or 6X9 with the alnico magnet.
One thing I have studied a bit is to examine the response curve of the vintage speakers and compare it to what I measure with other speakers available today. A pair of 3" cheapies salvaged from a low end tv set is not a bad place to start.
A friend utilized an alternative with a 15 band graphic equalizer to drive a "hi fidelity" amp and speaker with the vintage response derived from the equalizer.
I came by these observations rather early in ham radio when I got my first R4. I did not have a MS-4 and I assumed that a metal box of the same size fitted with a pair of 5" high quality, extended response drivers would sound terriffic. It did not and I soon acquired an MS-4
Jensen does manufacture a couple of vintage speakers but unfortunately they are only available in 10" and larger
Paul K0UYA
----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 08, 2010 1:57 PM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

> or, the frustration of finding a MS-4 speaker replacement.
>
> seems simple enough. the old 5x7 speaker was a replacement of a
> replacement, and after all these years the rubber had decayed into dust.
> this particular speaker replacement was a Jensen with a 10oz magnet and
> sounded really good. had a nice round bottom-end that jazzed up AM
> signals. reminded me of the old and huge speakers of the National,
> Hallicrafters, and Hammarlund days. remember those boxes?
>
> I got on Amazon and found a BOSS 5x7 speaker for $10 that looked like a

> reasonable first attempt for replacement. unfortunately, newer speakers
> are more oval (actually, more circular) and the height dimension is
> generally greater (by about .25") than the MS-4 cabinet affords. for
> testing, I snipped off a bit of the frame and installed it, just to see
> how it sounded. I can't say I am impressed. it's mostly lows, and muddy.
> so, I started looking at alternative speakers from Alpine, JBL, Infinity
> .. but they all seemed to be just a tad too big to fit, or the tweeter
> sticks out beyond the face.
>
> I have had a philosophical objection to buying anything from Radio Shack,
> though I heard there used to be a replacement available. I couldn't find
> it in the catalog listing, and to be honest, I would like to use a better
> grade speaker.
>
> has anyone had luck finding a good replacement speaker, that sounds good
> and fits without modifications? I have found a few high-end variants that
> look to fit (if barely), but they're ~$60 per speaker and overkill.
>
> 73's
>
> NF7Z, daniel
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

3796. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 20:51:16 UTC
From: Richard Knoppow
Topic: 3792 Message: 3796

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 08, 2010 11:57 AM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

> or, the frustration of finding a MS-4 speaker replacement.
>
> seems simple enough. the old 5x7 speaker was a replacement
> of a replacement, and after all these years the rubber had
> decayed into dust. this particular speaker replacement was
> a Jensen with a 10oz magnet and sounded really good. had a
> nice round bottom-end that jazzed up AM signals. reminded
> me of the old and huge speakers of the National,
> Hallicrafters, and Hammarlund days. remember those boxes?
>
> I got on Amazon and found a BOSS 5x7 speaker for $10 that
> looked like a reasonable first attempt for replacement.
> unfortunately, newer speakers are more oval (actually,
> more circular) and the height dimension is generally
> greater (by about .25") than the MS-4 cabinet affords. for
> testing, I snipped off a bit of the frame and installed
> it, just to see how it sounded. I can't say I am
> impressed. it's mostly lows, and muddy. so, I started
> looking at alternative speakers from Alpine, JBL, Infinity
> .. but they all seemed to be just a tad too big to fit, or
> the tweeter sticks out beyond the face.
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> I have had a philosophical objection to buying anything
> from Radio Shack, though I heard there used to be a
> replacement available. I couldn't find it in the catalog
> listing, and to be honest, I would like to use a better
> grade speaker.
>
> has anyone had luck finding a good replacement speaker,
> that sounds good and fits without modifications? I have
> found a few high-end variants that look to fit (if
> barely), but they're ~$60 per speaker and overkill.
>
> 73's
>
> NF7Z, daniel
>

Try
http://www.surplussales.com/microphones-audio/MicroAudio-8.html

Drake probably use an RTMA standard speaker. Impedance
is not critical.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3797. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 20:55:45 UTC
From: yash@aol.com
Topic: 3792 Message: 3797

Lee
a year or so ago, I found this pin ball co site,had all kinds of origional Jensen speakers. Cant remember the site name .google should find it with a little work. the 6x9 and 5x7 and the 4x6 were all the old bolt hole size.
good luck
dale wt4t

-----Original Message-----
From: LEE BAHR <pulsarxp@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jun 8, 2010 3:06 pm
Subject: Re: [DrakeRadio] MS-4 speaker anarchy ...

Why not have your Jenson speaker re-coned.

Lee, w0vt

----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 08, 2010 1:57 PM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

or, the frustration of finding a MS-4 speaker replacement.

seems simple enough. the old 5x7 speaker was a replacement of a replacement, and after all these years the rubber had decayed into dust. this particular speaker replacement was a Jensen with a 10oz magnet and sounded really good. had a nice round bottom-end that jazzed up AM signals. reminded me of the old and huge speakers of the National, Hallicrafters, and Hammarlund days. remember those boxes?

I got on Amazon and found a BOSS 5x7 speaker for $10 that looked like a reasonable first attempt for replacement. unfortunately, newer speakers are more oval (actually, more circular) and the height dimension is generally greater (by about .25") than the MS-4 cabinet affords. for testing, I snipped off a bit of the frame and installed it, just to see how it sounded. I can't say I am impressed. it's mostly lows, and muddy. so, I started looking at alternative speakers from Alpine, JBL, Infinity .. but they all seemed to be just a tad too big to fit, or the tweeter sticks out beyond the face.

I have had a philosophical objection to buying anything from Radio Shack, though I heard there used to be a replacement available. I couldn't find it in the catalog listing, and to be honest, I would like to use a better grade speaker.

has anyone had luck finding a good replacement speaker, that sounds good and fits without modifications? I have found a few high-end variants that look to fit (if barely), but they're ~$60 per speaker and overkill.

73's

NF7Z, daniel

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3798. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 21:06:34 UTC
From: Richard Knoppow
Topic: 3792 Message: 3798

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 08, 2010 11:57 AM
Subject: [DrakeRadio] MS-4 speaker anarchy ...

> or, the frustration of finding a MS-4 speaker replacement.
>
To add to my last message, for the most part the
speakers supplied for boatanchor radios were pretty simple,
just open back boxes. The response of a speaker in one of
these is limited in the bass region and has a resonance due
to the box. Closing the box extends the bass but increases
the resonance. Filling the box with absorbent material such
as fiberglass will often improve the responce because it
damps out some of the resonance. If you want to get better
sound I suggest mounting the speaker in a fully enclosed
wooden box of sufficient size filled with absorbent. For a
small speaker of the sort used in the Drake box a volume of
about one cubic foot is sufficient. Usually these speakers
have a fairly high free-air resonance so the volume of the
box can be fairly small without unduly raising it. The
pentode output stage in most tube radios has a high
effective impedance, i.e., not much damping, so the
fundamental resonance of the speaker and box will be
exagerated. This is not much of a problem in most of these
receivers because the low end is limited anyway.
Note that _small_ hi fi speakers are made to trade
efficiency for good low end responce. The amplifiers in
receivers like the Drake R4 and similar is quite limited in
power output, probably not more than one watt for reasonable
distortion, so you want a speaker with decent efficiency. A
small speaker designed for speech frequencies will usually
do. If you want lots of bass you need either a very large
speaker system or an external amplifier.
Oval cone speakers were developed mostly to fit into
limited cabinet space. While some claim they have better
frequency responce or distribution I doubt if there is
really much difference.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3799. Re: [DrakeRadio] MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 21:09:21 UTC
From: Jim Shorney
Topic: 3792 Message: 3799

On Tue, 08 Jun 2010 16:21:03 -0400, N9JCQ@... wrote:

>Why couldn't you get the original speaker re-coned? There are several companies out there that perform this service.
>

A full re-cone may not be necessary. Orange county speaker sells the surround foam kits ("re-edge kits") to fit a wide variety of speakers, they may have something that would work for the Jensen. I bought a complete kit for my Bose 901s years ago, and couldn't have been happier with the result or the customer service. The repair was really a lot easier than I thought it would be, no issues, and the result sounds great! A communications speaker should be easly comparatively.

http://www.speakerrepair.com/

Oh, and they also do re-coning....

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3800. Re: [Drakelist] Holey cow!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 21:29:22 UTC
From: Jose V. Gavila
Topic: 3800 Message: 3800

>Why are there so many holes drilled through the chassis in my TR4C? I have
>scratched my head and come up with nothing but loose hair. Hmmmmm.

Hot air flow?

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Vintage Radio and Test Equipment.......... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

3801. Holey cow!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-08 21:21:53 UTC
From: Dick KF4NS
Topic: 3801 Message: 3801

Bet that caught you attention, hi hi. I know that someone has at some time had this same question in their mind.

Why are there so many holes drilled through the chassis in my TR4C? I have scratched my head and come up with nothing but loose hair. Hmmmmm.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

3802. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 00:18:24 UTC
From: Joe
Topic: 3780 Message: 3802

Welp...my warp zone today was from desktop to the floor. Took the front off the R-4B to replace the color gel in the meter. **EVERY** screw went into my magnetic screw and parts catcher. I made sure the screw hit the magnet!

Yet.....

When I reassembled the radio, one case screw was missing. Where was it? On the floor, between my size 13 tennies! Have no clue how it migrated down there, let alone how it stayed there with all my standing up and sitting down while reassembling the receiver.

Hey...and Richard, you neglected to tell me to watch out for spring washers under the dial indicator adjust 'knob'. Shame on you....Oh well, you DID warn me about the faceplate spacers so all is forgiven. <<GRIN>>

Oh well...The radio sure looks nice.....I will probably do the transmitter tomorrow..then I will take a low light pic and share it with everyone.

And..for what it is worth...my 'new' L-4B will be here Sunday....it was pricey, a grand, but...it has new (NOS) Eimac 3-500Z's in it and the power supply has all new diodes...I will probably replace the resistors and install a softstart circuit in the system.

No shipping..my business partner is picking it up Saturday on his way back to Reno.

(Sure glad I replaced my defective Windom balun with a 3000 watt balun this past summer..gonna need it now!)

Seriously...Thanks for the suggestions, gang! Tricks like those mentioned, are always welcomed!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Drake Blue Filter History

> There's a spacetime warp zone 1/2 inch above the floor of any room where
> such
> detail work is being done. That's where those screws go that you SEE fall
> to
> the floor, and you HEAR the spot they hit the floor at, but they can't be
> found
> anywhere within 500 yards of that spot.

3803. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 01:28:58 UTC
From: Richard Knoppow
Topic: 3780 Message: 3803

----- Original Message -----
From: "Joe" <WA6RKN@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 08, 2010 5:18 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> Welp...my warp zone today was from desktop to the floor.
> Took the front off
> the R-4B to replace the color gel in the meter. **EVERY**
> screw went into
> my magnetic screw and parts catcher. I made sure the
> screw hit the magnet!
>
> Yet.........

Well, I forgot the spring washer even though I nearly
lost mine. Stuff like that is one reason I suggest working
in a shallow box. Its easy to miss some small part. The
washer is sometimes lubricated and the lubricant can make it
stick so that you don't realize its there until too late.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3804. Re: MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 01:38:50 UTC
From: arsnf7z
Topic: 3792 Message: 3804

the old speaker is gone. it had other issues as well. I thought it would be easy to purchase a relatively cheap 5x7 replacement speaker. the newer speakers have the same bolt pattern but the MS-4 demands a speaker that is almost flat along top/bottom edges, across the mounting holes. modern speakers have an arc to the frame, and do not fit properly into a MS-4 case.

I'm sure I'll find something. I'm a little surprised that finding a replacement (that fits) would require this level of sleuthing!

73's

daniel

3805. Re: [DrakeRadio] Re: MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 01:47:39 UTC
From: LEE BAHR
Topic: 3792 Message: 3805

Find another Drake MS-4. Maybe a really rusty scratched one. Use that speaker and then sell the old case w/o spkr. Or, could you fit in two 4 inch square replacement speakers onto the baffle? Mouser sells them and I use them all the time replacing them on All American Five receivers. Price is around $3.00 + for one. Put them in series observing polarity.

Lee, w0vt

----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 08, 2010 8:38 PM
Subject: [DrakeRadio] Re: MS-4 speaker anarchy ...

the old speaker is gone. it had other issues as well. I thought it would be easy to purchase a relatively cheap 5x7 replacement speaker. the newer speakers have the same bolt pattern but the MS-4 demands a speaker that is almost flat along top/bottom edges, across the mounting holes. modern speakers have an arc to the frame, and do not fit properly into a MS-4 case.

I'm sure I'll find something. I'm a little surprised that finding a replacement (that fits) would require this level of sleuthing!

73's

daniel

[Non-text portions of this message have been removed]

3806. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 07:04:23 UTC
From: Les Zwiebel WB6ORZ
Topic: 3780 Message: 3806

Leslie's Corollary: Despite the care taken, 37% of the time, the number of screws remaining at the completion of a repair shall exceed or be short by one.
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Monday, June 07, 2010 6:16 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

On Mon, 07 Jun 2010 20:07:19 -0500, Jim Shorney wrote:

>spacetime warp zone

Fogot to mention, that's also likely the same place those missing socks go
after you "lose" them in the dryer.

73

-Jim

[Non-text portions of this message have been removed]

3807. Re: [DrakeRadio] Re: MS-4 speaker anarchy ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 10:44:25 UTC
From: Kris Merschrod
Topic: 3792 Message: 3807

For the RV-4 situation I have used the Realistic 5" 40-1240D 4-Ohm speaker. A friend had a few old stock. It sounds fine - Both the original and the Realistic are round. Almost a perfect fit just a couple of edges of the speaker needed trimming.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

3808. Re: [Drakelist] Holey cow!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-09 16:47:09 UTC
From: Dick KF4NS
Topic: 3800 Message: 3808

Yes, of course, I thought of that, but what puzzled me was the lack of
a pattern, more of a shotgun approach.
The ones under the PA's make sense but the others are very random.

This rig does seem to give off more heat than my Heathkit HW100, which
I guess makes sense.

Thanks and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----
From: k9sqg@...
To: kf4nsradio@...
Sent: Tuesday, June 08, 2010 5:38 PM
Subject: Re: [Drakelist] Holey cow!

Enables cooling for under chassis resistors...

-----Original Message-----
From: Dick KF4NS <kf4nsradio@...>
To: Drake list at zerobeat <drakelist@...>; Drake list
<DrakeRadio@yahoogroups.com>
Sent: Tue, Jun 8, 2010 5:21 pm
Subject: [Drakelist] Holey cow!

Bet that caught you attention, hi hi. I know that someone has at
some time had this same question in their mind.

Why are there so many holes drilled through the chassis in my TR4C?
I have scratched my head and come up with nothing but loose hair.
Hmmmmm.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

3809. Drake trivia ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-11 16:13:43 UTC
From: arsnf7z
Topic: 3809 Message: 3809

this has surely been discussed before, and yet, I've missed it if it has. have you ever noticed the small ~1/16" circular ring just above the 'R' (of R.L. Drake) at the bottom-center lip of the T4XC faceplate? it appears to be exactly where the phone-jack on the R4C resides. what is odd, is that I seem to remember noticing this same oddity on my R4B so many years ago, and wondering about it then. it looks to be a marker for a punch-hole but was not used.

any theories?

73's

NF7Z, daniel

3810. TR7 Owners: How's your German?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-11 16:15:59 UTC
From: mfelack
Topic: 3810 Message: 3810

The February through April issues of CQ-DL, the German ham magazine, had some great "looking" (since I can't read them, just look at the pictures) articles that showed how to put together some superb replacement cards to significantly upgrade the performance of the TR7... unfortunately, the articles are in German!!!

The skill level to make such fine looking boards is way beyond my abilities but I'd love to see English translations of the articles and I'd hope that someday they may be available as kits!!!

Can anybody help me out?

GL ES 73 DE MIKE WA3WOM K

3811. Re: [DrakeRadio] Drake trivia ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-11 16:18:45 UTC
From: Garey Barrell
Topic: 3809 Message: 3811

Daniel -

No theory... It was left over from the T-4X artwork which had the mic jack on the front panel. There is a matching clearance in the chassis behind it for the jack body.

arsnf7z wrote:
> this has surely been discussed before, and yet, I've missed it if it has. have you ever noticed the small ~1/16" circular ring just above the 'R' (of R.L. Drake) at the bottom-center lip of the T4XC faceplate? it appears to be exactly where the phone-jack on the R4C resides. what is odd, is that I seem to remember noticing this same oddity on my R4B so many years ago, and wondering about it then. it looks to be a marker for a punch-hole but was not used.
>
> any theories?
>
> 73's
>
> NF7Z, daniel
>

3812. Re: Drake trivia ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-11 16:36:09 UTC
From: arsnf7z
Topic: 3809 Message: 3812

fascinating. of course, the question begs .. was this an oversight, or that it wasn't worth the cost and efforts to change? it is odd, and I noticed that the Tony Mills panel replacements still incorporated the mark on the T4XB panel but removed it on the T4XC panel. now that too .. seems odd! the fact that Drake had to change the silkscreens for the newer model, leaves me puzzled as to why they didn't remove the marker at that time.

thanks for the quick response ...

daniel

3813. Re: [DrakeRadio] Re: Drake trivia ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-11 17:40:06 UTC
From: Garey Barrell
Topic: 3809 Message: 3813

I suspect that the mark was left with the intention of keeping the mic plug on the front panel, at least when the artwork was done.

They may have in fact printed the panels well in advance of the decision to move that jack to the side. Some liked it on the front, because it was much easier to pull the mic when you wanted to operate CW. But I think most didn't like it because it made getting to the knobs on either side more difficult.

I know that there was much discussion about its location on the T-4X, seems like you either loved it or hated it!

The new slanted skirt on the MAIN TUNING knob however, was universally approved. Many bought new skirts and/or knobs for their "A" line because the flat skirt was so hard to see in normal operation.

Probably guys who worked mainly CW didn't care, SSB only guys didn't like the knob interference, and those who went both ways liked having it on the front!!

arsnf7z wrote:
> fascinating. of course, the question begs .. was this an oversight, or that it wasn't worth the cost and efforts to change? it is odd, and I noticed that the Tony Mills panel replacements still incorporated the mark on the T4XB panel but removed it on the T4XC panel. now that too .. seems odd! the fact that Drake had to change the silkscreens for the newer model, leaves me puzzled as to why they didn't remove the marker at that time.
>
> thanks for the quick response ...
>
> daniel
>

3815. looking for a set of twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-12 18:11:39 UTC
From: yash@aol.com
Topic: 3815 Message: 3815

After selling my c line twins a while back,I decided I want to find another set of twins. Looking for a drake 4 line.Iam not interested in the C series gear. Will consider R4,T4, also the A and B SERIES R&T. Iam not looking for perfect gear with perfect shinney copper,but also don't want gear with scales growing on the chassis. HAS to be NO SMOKE gear. the outside cosmetics need to be decent,not collector quality gear.I would like to find gear that isn't going to take hours of bench time to get up and running. Power supply can be either ac-3 or ac-4,will rebuild. Please no spray can restorations.
Let me know what you may have.
thanks
dale wt4t

[Non-text portions of this message have been removed]

3816. Wanted: MN-2000

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-12 19:02:43 UTC
From: Joe
Topic: 3816 Message: 3816

I now need to add a Drake MN-2000 to my station. I am afraid my MN-4 will not be happy with me if I try and tune the power of the L-4B through it.

So.....

If you have one just collecting dust, or know of one not be used anymore, I would appreciate your letting me know!

Many thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

3817. L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-12 22:46:19 UTC
From: w5rdw
Topic: 3817 Message: 3817

I have a L-7 that has the ON-Off switch permanently ON. I know there is a mod procedure in the WB4HFN website and I will do that if necessary, but has anyone looked into finding a replacement switch? I know the exact one is no longer made, but do you think the innards may be available on some switch that McGill, the original manufacturer, makes that can help in the mod so one does not have to file to work? They have a number of rotary switches thsey still make.

http://www.mcgillelectrical.com/CatalogProducts.asp?nProductsID=161

Also, CK Components has some switches that look interesting.

http://www.ck-components.com/product-list-page,21088,en.html

Roger W5RDW
Murphy, Texas

3818. Looking for a Drake 2C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 00:35:36 UTC
From: WA9WHD
Topic: 3818 Message: 3818

Hello all:

If you have (or know of anyone who has) a 2C available for sale could you advise them to contact me at wa9whd@.... The 2C does not have to be mint but must be clean and fully functional.

73 John WA9WHD Lutz Florida

3819. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 16:04:24 UTC
From: Garey Barrell
Topic: 3780 Message: 3819

Joe -

I've been out of town for a few days. Been going through 350+ emails.!

I'm sure it's too late now, but you do NOT have to remove the front
panel to replace the meter "blue".

Simply remove the white painted shield behind the meter. Note carefully
which wire goes where on the meter, and be sure the insulating washers
are replaced correctly.

LOT's easier than pulling and replacing the front panel!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> Welp...
>
> Today, I picked up a 4 pack of Number 44 bulbs for my B Line.
>
> Gotta say, BOY!! DOES THAT MAKE A DIFFERENCE!!!
>
> Nice and bright...good color blue.....Well worth the $3,86 spent.
>
> Now to replace the blue film in the 2 meters. Not real excited about
> pulling the whole faceplate to remove the meter, but it is just time
> consuming, doesn't look difficult. It will be worth it in the end....I'll
> take pics when I job is complete and post them..so you LED weenies can
> compare!<<GRIN>>
>
> 73's all!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
>
> ----- Original Message -----
> From: "John"<wb0rxl@...>
> Subject: [DrakeRadio] Drake Blue Filter History
>
>
>

>> "Best of my knowledge Drake always used blue filter material. As most of
>> use has witnessed over the years with age the blue filter material would
>> fade in the area of the #47 lamp and the white plastic dial background
>> would yellow. The result was a green colored dial background. The S meter
>> would appear as no filter was installed at all because of the fading, just
>> colorless lamp light."
>>
>
>
>

3820. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 16:49:10 UTC
From: Joe
Topic: 3780 Message: 3820

I looked and looked, but because of the nuts being varnished on, they wouldn't turn without turning the whole screw, and as there was no way to put a screwdriver on the other end...the panel had to come off. (I am talking about the meter, not the dial..the dial was easy...2 screws and it was off.

It wasn't hard..just took 30 minutes longer than what I wanted to spend! LOL. Sure looks nice though!

You haven't read to my amplifier question yet, I presume. I will have it here tomorrow....but I am still scratching my head. I suspect the L-4B is activated through the power supply connections..so if I want to use the amp with a non Drake radio, I may have to modify it somewhat...not real excited about doing that though.....then the amp is no longer 'pristine'.

Joe - WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 13, 2010 9:04 AM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> Joe -
>
> I've been out of town for a few days. Been going through 350+ emails.!
>
> I'm sure it's too late now, but you do NOT have to remove the front
> panel to replace the meter "blue".
>
> Simply remove the white painted shield behind the meter. Note carefully
> which wire goes where on the meter, and be sure the insulating washers
> are replaced correctly.
>
> LOT's easier than pulling and replacing the front panel!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Joe wrote:
>> Welp...
>>

>> Today, I picked up a 4 pack of Number 44 bulbs for my B Line.
>>
>> Gotta say, BOY!! DOES THAT MAKE A DIFFERENCE!!!
>>
>> Nice and bright...good color blue.....Well worth the $3,86 spent.
>>
>> Now to replace the blue film in the 2 meters. Not real excited about
>> pulling the whole faceplate to remove the meter, but it is just time
>> consuming, doesn't look difficult. It will be worth it in the
>> end....I'll
>> take pics when I job is complete and post them..so you LED weenies can
>> compare!<<GRIN>>
>>
>> 73's all!
>>
>> Joe Wolfe
>> WA6RKN
>> Reno, Nevada
>>
>>
>> ----- Original Message -----
>> From: "John"<wb0rxl@...>
>> Subject: [DrakeRadio] Drake Blue Filter History
>>
>>
>>
>>> "Best of my knowledge Drake always used blue filter material. As most of
>>> use has witnessed over the years with age the blue filter material would
>>> fade in the area of the #47 lamp and the white plastic dial background
>>> would yellow. The result was a green colored dial background. The S
>>> meter
>>> would appear as no filter was installed at all because of the fading,
>>> just
>>> colorless lamp light."
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> Yahoo! Groups Links
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3821. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 19:03:01 UTC
From: Garey Barrell
Topic: 3780 Message: 3821

Joe -

I had forgotten about that. What you have to do is put a small screwdriver in "sideways" between the panel and sub-panel and fit it into the screw's slot. You can hold it that way enough to turn the nut with a nutdriver to remove the meter shield. Anyway, I saw the later message where you had successfully performed the surgery "your" way! :-)

The L-4B is controlled by the two pin connector on the rear panel that matches the one on the side of the AC-4. As designed, the AC-4 end is isolated from ground. The L-4B end has one side grounded, so there is no polarization required. Unfortunately, that two-pin plug must have been obsolete when it was selected, as they have ALWAYS been hard to find. They show up on eBay once in a while for $20 or more!! Drake sold them for $0.15..... Anyway, Drake eventually gave up as well, and marketed a little conversion kit that consisted of a small aluminum plate with an RCA phono jack in the middle, and two mounting holes that matched up with the original holes in the AC-4 and L-4B. I think John Kriner still has some of the 'kits', but I believe he wants $20 for those as well. Very simple to make one, if you have access to a metal shear and a hand drill. You could probably make one out of some aluminum strips from a hobby shop or hardware store, cut by scoring and bending and then file smooth.

To use with a non-Drake radio you just need to "polarize" the connector at the L-4B end, if using the two-pin one, since most other transmitters use an RCA phono jack, and key to ground. If the Linear "keys" when you connect it, just turn the two-pin connector "over".

Since you want to use it with both, I'd convert everything to RCA jacks and be done with it!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> I looked and looked, but because of the nuts being varnished on, they
> wouldn't turn without turning the whole screw, and as there was no way to
> put a screwdriver on the other end...the panel had to come off. (I am
> talking about the meter, not the dial..the dial was easy...2 screws and it
> was off.
>
> It wasn't hard..just took 30 minutes longer than what I wanted to spend!
> LOL. Sure looks nice though!

>
> You haven't read to my amplifier question yet, I presume. I will have it
> here tomorrow....but I am still scratching my head. I suspect the L-4B is
> activated through the power supply connections..so if I want to use the amp
> with a non Drake radio, I may have to modify it somewhat...not real excited
> about doing that though.....then the amp is no longer 'pristine'.
>
> Joe - WA6RKN
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Sunday, June 13, 2010 9:04 AM
> Subject: Re: [DrakeRadio] Drake Blue Filter History
>
>
>
>> Joe -
>>
>> I've been out of town for a few days. Been going through 350+ emails.!
>>
>> I'm sure it's too late now, but you do NOT have to remove the front
>> panel to replace the meter "blue".
>>
>> Simply remove the white painted shield behind the meter. Note carefully
>> which wire goes where on the meter, and be sure the insulating washers
>> are replaced correctly.
>>
>> LOT's easier than pulling and replacing the front panel!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Joe wrote:
>>
>>> Welp...
>>>
>>> Today, I picked up a 4 pack of Number 44 bulbs for my B Line.
>>>
>>> Gotta say, BOY!! DOES THAT MAKE A DIFFERENCE!!!
>>>
>>> Nice and bright...good color blue.....Well worth the $3,86 spent.
>>>
>>> Now to replace the blue film in the 2 meters. Not real excited about
>>> pulling the whole faceplate to remove the meter, but it is just time
>>> consuming, doesn't look difficult. It will be worth it in the

>>> end....I'll
>>> take pics when I job is complete and post them..so you LED weenies can
>>> compare!<<GRIN>>
>>>
>>> 73's all!
>>>
>>> Joe Wolfe
>>> WA6RKN
>>> Reno, Nevada
>>>
>>>
>>> ----- Original Message -----
>>> From: "John"<wb0rxl@...>
>>> Subject: [DrakeRadio] Drake Blue Filter History
>>>
>>>
>>>
>>>
>>>> "Best of my knowledge Drake always used blue filter material. As most of
>>>> use has witnessed over the years with age the blue filter material would
>>>> fade in the area of the #47 lamp and the white plastic dial background
>>>> would yellow. The result was a green colored dial background. The S
>>>> meter
>>>> would appear as no filter was installed at all because of the fading,
>>>> just
>>>> colorless lamp light."
>>>>

3822. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 20:21:39 UTC
From: Joe
Topic: 3780 Message: 3822

John Kriner...Do you have his current website address..the one I have is a
no goot any longer!

(http://www.siscom.net/~jandsuz/index1.htm)

Joe - WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] Drake Blue Filter History

I think John
> Kriner still has some of the 'kits', but I believe he wants $20 for
> those as well. Very simple to make one, if you have access to a metal
> shear and a hand drill.

3823. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 20:46:39 UTC
From: Garey Barrell
Topic: 3780 Message: 3823

Joe -

It's "TR7DUDE" and he has an eBay store called "The Man's Amateur Parts Supply". The kits are still listed at $15 each.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> John Kriner...Do you have his current website address..the one I have is a
> no goot any longer!
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> (http://www.siscom.net/~jandsuz/index1.htm)
>
> Joe - WA6RKN
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> Subject: Re: [DrakeRadio] Drake Blue Filter History
>
>
> I think John
>
>> Kriner still has some of the 'kits', but I believe he wants $20 for
>> those as well. Very simple to make one, if you have access to a metal
>> shear and a hand drill.
>>
>
>

3824. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 20:51:30 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3824

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3825. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 21:17:30 UTC
From: Joe
Topic: 3780 Message: 3825

I went through his entire site and didn't see them (On eBay) I'll go
through again.

Is that where you saw them? In his eBay auctions?

Joe - WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 13, 2010 1:46 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

> Joe -
>
> It's "TR7DUDE" and he has an eBay store called "The Man's Amateur Parts
> Supply". The kits are still listed at $15 each.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
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>
> Joe wrote:
>> John Kriner...Do you have his current website address..the one I have is
>> a
>> no goot any longer!
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>> (http://www.siscom.net/~jandsuz/index1.htm)
>>
>> Joe - WA6RKN
>>
>> ----- Original Message -----
>> From: "Garey Barrell"<k4oah@...>
>> Subject: Re: [DrakeRadio] Drake Blue Filter History
>>
>>
>> I think John
>>
>>> Kriner still has some of the 'kits', but I believe he wants $20 for
>>> those as well. Very simple to make one, if you have access to a metal
>>> shear and a hand drill.
>>>
>>

>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

3826. Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-13 23:47:28 UTC
From: David & Chris Drake
Topic: 3817 Message: 3826

HI,
Don't think so, but you can look as you wish. There are some spare switches out there and maybe someone will come to your rescue. Rumor has it that in or around 1982, there was a vendor at Dayton who had hundreds of NOS switches for sale. They were scarfed up by many, but some were passed by. Guess they trashed the rest? Who knows. If the on-off switch seized, then the cw-ssb is next. If you get it fixed, get a "soft start" for a delay in on-off. Helps the longevity (sp?).

Many have asked and seems no one volunteers, hence the article on wb4hfn. Mine works fine, and acutally as good as new after the refurb.
73's
David
Wd9cmd

[Non-text portions of this message have been removed]

3827. Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 14:52:19 UTC
From: w5rdw
Topic: 3817 Message: 3827

I am going to look at a number of switch innards and see what hope they hold. Never expected to find the exact physical switch, but having new innards will help. I have already taken mine apart and will start cleaning the contacts today with a Dremel tool and small file. It should be OK after that.

I still am going to call McGill, the original mfg., and see what they say. Doesn't hurt to ask and they may have some suggestions. Not too many 20A rocker around, for sure.

Roger W5RDW
Murphy, Texas

--- In DrakeRadio@yahoogroups.com, "David & Chris Drake" <drakes@...> wrote:
>
> HI,
> Don't think so, but you can look as you wish. There are some spare switches out there and maybe someone will come to your rescue. Rumor has it that in or around 1982, there was a vendor at Dayton who had hundreds of NOS switches for sale. They were scarfed up by many, but some were passed by. Guess they trashed the rest? Who knows. If the on-off switch seized, then the cw-ssb is next. If you get it fixed, get a "soft start" for a delay in on-off. Helps the longevity (sp?).
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> Many have asked and seems no one volunteers, hence the article on wb4hfn. Mine works fine, and acutally as good as new after the refurb.
> 73's
> David
> Wd9cmd
>
>
> [Non-text portions of this message have been removed]
>

3828. Re: [DrakeRadio] Drake Blue Filter History

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 15:47:23 UTC
From: William Houghton
Topic: 3780 Message: 3828

Garey, Joe,

I found that two subminature 3/32" phone plugs work quite well with the "vox relay" socket on the AC-4. They stick out about 1/8". I wired the tip and ring of each plug together for each wire. I used the type with a plastic shell that covers the threads of the base of the plug because the two shells will just touch.

I'll send a photo if anyone wants to see it.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, June 13, 2010 12:03:01 PM
Subject: Re: [DrakeRadio] Drake Blue Filter History

Joe -

I had forgotten about that. What you have to do is put a small screwdriver in "sideways" between the panel and sub-panel and fit it into the screw's slot. You can hold it that way enough to turn the nut with a nutdriver to remove the meter shield. Anyway, I saw the later message where you had successfully performed the surgery "your" way! :-)

The L-4B is controlled by the two pin connector on the rear panel that matches the one on the side of the AC-4. As designed, the AC-4 end is isolated from ground. The L-4B end has one side grounded, so there is no polarization required. Unfortunately, that two-pin plug must have been obsolete when it was selected, as they have ALWAYS been hard to find. They show up on eBay once in a while for $20 or more!! Drake sold them for $0.15..... Anyway, Drake eventually gave up as well, and marketed a little conversion kit that consisted of a small aluminum plate with an RCA phono jack in the middle, and two mounting holes that matched up with the original holes in the AC-4 and L-4B. I think John Kriner still has some of the 'kits', but I believe he wants $20 for those as well. Very simple to make one, if you have access to a metal shear and a hand drill. You could probably make one out of some aluminum strips from a hobby shop or hardware store, cut by scoring and bending and then file smooth.

To use with a non-Drake radio you just need to "polarize" the connector at the L-4B end, if using the two-pin one, since most other transmitters use an RCA phono jack, and key to ground. If the Linear "keys" when you connect it, just turn the two-pin connector "over".

Since you want to use it with both, I'd convert everything to RCA jacks
and be done with it!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> I looked and looked, but because of the nuts being varnished on, they
> wouldn't turn without turning the whole screw, and as there was no way to
> put a screwdriver on the other end...the panel had to come off. (I am
> talking about the meter, not the dial..the dial was easy...2 screws and it
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> LOL. Sure looks nice though!
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> Joe - WA6RKN
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> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Sunday, June 13, 2010 9:04 AM
> Subject: Re: [DrakeRadio] Drake Blue Filter History
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>>
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>> Simply remove the white painted shield behind the meter. Note carefully
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>> Glen Allen, VA
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>>>
>>> Nice and bright...good color blue.....Well worth the $3,86 spent.
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>>> compare!<<GRIN>>
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>>> 73's all!
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>>> Joe Wolfe
>>> WA6RKN
>>> Reno, Nevada
>>>
>>>
>>> ----- Original Message -----
>>> From: "John"<wb0rxl@...>
>>> Subject: [DrakeRadio] Drake Blue Filter History
>>>
>>>
>>>
>>>
>>>> "Best of my knowledge Drake always used blue filter material. As most of
>>>> use has witnessed over the years with age the blue filter material would
>>>> fade in the area of the #47 lamp and the white plastic dial background
>>>> would yellow. The result was a green colored dial background. The S
>>>> meter
>>>> would appear as no filter was installed at all because of the fading,
>>>> just
>>>> colorless lamp light."
>>>>

[Non-text portions of this message have been removed]

3829. Re: VOX Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 18:20:17 UTC
From: Garey Barrell
Topic: 3780 Message: 3829

Bill -

There have been many homebrew versions of that stupid connector, but
yours is a new one!

The pins are 0.093" dia, and on 0.350" centers. I have used 3/32" dia
tubing from the hobby shop, and molded the back with RTV.

I still say the RCA jack is the best answer! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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William Houghton wrote:
> Garey, Joe,
>
> I found that two subminature 3/32" phone plugs work quite well with the "vox relay" socket on the AC-4. They stick out about 1/8". I wired the tip and ring of each plug together for each wire. I used the type with a plastic shell that covers the threads of the base of the plug because the two shells will just touch.
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> I'll send a photo if anyone wants to see it.
>
> Bill
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, June 13, 2010 12:03:01 PM
> Subject: Re: [DrakeRadio] Drake Blue Filter History
>
>
>
> Joe -
>
> I had forgotten about that. What you have to do is put a small
> screwdriver in "sideways" between the panel and sub-panel and fit it
> into the screw's slot. You can hold it that way enough to turn the nut
> with a nutdriver to remove the meter shield. Anyway, I saw the later
> message where you had successfully performed the surgery "your" way! :-)
>
> The L-4B is controlled by the two pin connector on the rear panel that

> matches the one on the side of the AC-4. As designed, the AC-4 end is
> isolated from ground. The L-4B end has one side grounded, so there is
> no polarization required. Unfortunately, that two-pin plug must have
> been obsolete when it was selected, as they have ALWAYS been hard to
> find. They show up on eBay once in a while for $20 or more!! Drake
> sold them for $0.15..... Anyway, Drake eventually gave up as well,
> and marketed a little conversion kit that consisted of a small aluminum
> plate with an RCA phono jack in the middle, and two mounting holes that
> matched up with the original holes in the AC-4 and L-4B. I think John
> Kriner still has some of the 'kits', but I believe he wants $20 for
> those as well. Very simple to make one, if you have access to a metal
> shear and a hand drill. You could probably make one out of some aluminum
> strips from a hobby shop or hardware store, cut by scoring and bending
> and then file smooth.
>
> To use with a non-Drake radio you just need to "polarize" the connector
> at the L-4B end, if using the two-pin one, since most other transmitters
> use an RCA phono jack, and key to ground. If the Linear "keys" when you
> connect it, just turn the two-pin connector "over".
>
> Since you want to use it with both, I'd convert everything to RCA jacks
> and be done with it!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
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> <www.k4oah.com>
>
>
>

3830. WTB: Drake 2C & 2NT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 16:32:09 UTC
From: billykatzz
Topic: 3830 Message: 3830

Looking for operational Drake "novice" rig set. Please email with description, photos, and asking price.

Thanks es 73

Bill, NK6Q

3831. Re: [DrakeRadio] Re: VOX Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 19:45:49 UTC
From: William Houghton
Topic: 3780 Message: 3831

Garey,

The RCA jack might be the best long term solution. I had read about your 3/32" tubing solution and realized that I had some sub-mini (3/32") phone plugs in the junkbox so I thought I might give it a try. Since it seems to work well, I thought I might share it with other Drakians.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, June 14, 2010 11:20:17 AM
Subject: [DrakeRadio] Re: VOX Connector

Bill -

There have been many homebrew versions of that stupid connector, but
yours is a new one!

The pins are 0.093" dia, and on 0.350" centers. I have used 3/32" dia
tubing from the hobby shop, and molded the back with RTV.

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Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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>
> Bill
>
>
>
> ---
> From: Garey Barrell<k4oah@...>

> To: DrakeRadio@yahoogroups.com
> Sent: Sun, June 13, 2010 12:03:01 PM
> Subject: Re: [DrakeRadio] Drake Blue Filter History
>
>
> Joe -
>
> I had forgotten about that. What you have to do is put a small
> screwdriver in "sideways" between the panel and sub-panel and fit it
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> with a nutdriver to remove the meter shield. Anyway, I saw the later
> message where you had successfully performed the surgery "your" way! :-)
>
> The L-4B is controlled by the two pin connector on the rear panel that
> matches the one on the side of the AC-4. As designed, the AC-4 end is
> isolated from ground. The L-4B end has one side grounded, so there is
> no polarization required. Unfortunately, that two-pin plug must have
> been obsolete when it was selected, as they have ALWAYS been hard to
> find. They show up on eBay once in a while for $20 or more!! Drake
> sold them for $0.15..... Anyway, Drake eventually gave up as well,
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> at the L-4B end, if using the two-pin one, since most other transmitters
> use an RCA phono jack, and key to ground. If the Linear "keys" when you
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> Glen Allen, VA
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>
>
>

[Non-text portions of this message have been removed]

3832. Re: [DrakeRadio] Re: VOX Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 19:54:36 UTC
From: Garey Barrell
Topic: 3780 Message: 3832

Bill -

There can never be too many ideas!! :-) The nice thing is that most of
us probably have a few of those lying in the junk box.

73, Garey - K4OAH

William Houghton wrote:
> Garey,
>
> The RCA jack might be the best long term solution. I had read about your 3/32" tubing solution and realized that I had some sub-mini (3/32") phone plugs in the junkbox so I thought I might give it a try. Since it seems to work well, I thought I might share it with other Drakians.
>
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>
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> Sent: Mon, June 14, 2010 11:20:17 AM
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>
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> yours is a new one!
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>>
>>
>

3833. TR-4 Finals and driver (cross posted)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-14 20:41:20 UTC
From: Forrest Plumstead
Topic: 3833 Message: 3833

The boys at Chesapeake Amateur Radio Service (CARS - W4CAR) did it again. When I lived in Virginia, one of the members loaned me an Icom 730, which I had to return when I moved back to San Antonio.

However they gave me a Drake TR-4 which needed some work before I left. They tried to trouble shoot it before I left. The major problem is no modulation. They traced mod from the mike to the filters, but ran out of time. The is also a problem with a sticky loading cap.

Well this morning a package arrived from the club president who sent me a matched set of finals and the Driver tube. Here's my question. Do any of the list members live in San Antonio and have a good test bench, and time on their hands, who can help me bring this radio back to its former glory?

Thanks for any help
73s
Forrest WB5HQO
--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
NAQCC Member # 3678

[Non-text portions of this message have been removed]

3834. Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 14:29:00 UTC
From: w5rdw
Topic: 3817 Message: 3834

Switch cleaned yesterday with Dremel tool and other assorted tips in the Dremel box. Put everything back together and now have switch action as before.

Roger W5RDW

--- In DrakeRadio@yahoogroups.com, "w5rdw" <rwhitetexas@...> wrote:
>
>
>
> I am going to look at a number of switch innards and see what hope they hold. Never expected to find the exact physical switch, but having new innards will help. I have already taken mine apart and will start cleaning the contacts today with a Dremel tool and small file. It should be OK after that.
>
> I still am going to call McGill, the original mfg., and see what they say. Doesn't hurt to ask and they may have some suggestions. Not too many 20A rocker around, for sure.
>
>
> Roger W5RDW
> Murphy, Texas

3835. Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 14:50:22 UTC
From: David & Chris Drake
Topic: 3817 Message: 3835

Very good. If you talk to McGill, tell them there is demand for the rear bakelite case that houses the contacts, as well as the rocker arms. Most of the time the two exterior switches are ok. The arms and contacts are where the potential damage exists. Good luck on your repair. I'm sure it will work like new. BTW, a good time to replace the two panel lights while everything is disassembled. The article on wb4hfn.com lists a couple sources for original replacements.
73's
David
Wd9cmd

[Non-text portions of this message have been removed]

3836. FS - Drake TR-7 / PS-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 20:24:01 UTC
From: Garey Barrell
Topic: 3836 Message: 3836

The time has come to begin lightening the load for the next move.

This is a TR-7 in beautiful condition, (original non-sticky cabinet,)
perfect front panel, and a PS-7 the same. No accessories aside from a
300 Hz CW filter.

The TR-7 is s/n 4036, full power out on all bands, 140 - 120 - 110W.
All controls, switches, etc. work as they should.

This is an excellent example of this fine transceiver.

$600, FOB Richmond, VA

--
73, Garey - K4OAH
Glen Allen, VA

3837. TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 22:15:14 UTC
From: Dick KF4NS
Topic: 3837 Message: 3837

I was not able to find a xtal xref chart in Garey's CD, nor in the other information I have. Which xtals are for which bands (schematic is confusing), it looks like 80M and 20M have no xtal.

What is the one next to the PTO? Wish I had a chassis top view parts ID to refer to.

While I have your attention, I have read opposing views on the orientation of an added PA fan. I usually direct the air 'IN' to the compartment if the fan is strictly for the PA tubes. There is no room for a fan on top due to my desk shelving so I always attach the fan to the back.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

3838. Re: [Drake] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 22:48:48 UTC
From: William Houghton
Topic: 3837 Message: 3838

Dick,

For 80m and 20m, the VFO signal bypass the premixer. For 40m, 15m, and 10m, the VFO and the crystal osc hetrodyne in the premixer.
40m uses a 21.5 mHz xtal, 15m uses a 35.5 Mhz xtal, and the 10m bands use 42.5, 43.0, and 43.6 MHz xtals. I'd have to open mine up (which I can't do right now) to tell their location in the xtal holder. (BTW, this is described in the theory of operation section of the manual if you need it for further reference).

Bill

From: Dick KF4NS <kf4nsradio@...>
To: DrakeRadio list <DrakeRadio@yahoogroups.com>; Drake list at zerobeat <drakelist@...>; drake@...
Sent: Tue, June 15, 2010 3:15:14 PM
Subject: [Drake] TR4C crystal ID

I was not able to find a xtal xref chart in Garey's CD, nor in the other information I have. Which xtals are for which bands (schematic is confusing), it looks like 80M and 20M have no xtal.

What is the one next to the PTO? Wish I had a chassis top view parts ID to refer to.

While I have your attention, I have read opposing views on the orientation of an added PA fan. I usually direct the air 'IN' to the compartment if the fan is strictly for the PA tubes. There is no room for a fan on top due to my desk shelving so I always attach the fan to the back.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

Drake mailing list
Home: http://mailman.qth.net/mailman/listinfo/drake
Help: http://mailman.qth.net/mmfaq.htm
Post: mailto:Drake@...

This list hosted by: http://www.qsl.net
Please help support this email list: http://www.qsl.net/donate.html

[Non-text portions of this message have been removed]

3839. Re: [DrakeRadio] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-15 23:52:31 UTC
From: Jim Shorney
Topic: 3837 Message: 3839

On Tue, 15 Jun 2010 18:15:14 -0400, Dick KF4NS wrote:

>While I have your attention, I have read opposing views on the
>orientation of an added PA fan. I usually direct the air 'IN' to the
>compartment if the fan is strictly for the PA tubes. There is no room
>for a fan on top due to my desk shelving so I always attach the fan to
>the back.

"OUT" is the correct orientation for a single cooling fan on just about anything. "OUT" cools the whole box, "IN" cools what it is pointed at, but pushes the warm air around inside the rest of the box.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3840. Re: [Amateur-repairs] Re: TR-4 Finals and driver (cross posted)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 00:34:05 UTC
From: Forrest Plumstead
Topic: 3840 Message: 3840

Hi JB

As I noted this message is cross posted. Drake Group is the other group. I have been a member for a while. While I am sure that when I am ready for it, I will be needing all the help I can get. My major problem right now is lack of troubleshooting equipment. None of what little bit of instruments that I have are suitable for the problem at hand Modulation). That is why I am hoping that a local San Antonio ham might have the equipment so that I can restore this fine radio.

BTW the tubes are 6jb6.

73s
Forrest WB5HQO

On Tue, Jun 15, 2010 at 1:30 PM, jb <xjjb4x4@...> wrote:

>
>
> Hi Forrest,
> Get yourself hooked up with the Drake group. There are a couple of hams on
> there that know these things forwards and backwards and are very helpful.
> Garey will usually walk you right thru the troubleshooting.
>
> http://groups.yahoo.com/group/DrakeRadio/
>
> BTW, those tubes should be 6jb6. 6jb6a will work just as well.
>
> God bless
> 73
> jb
> kg6biw
>
>
> --- In Amateur-repairs@yahoogroups.com <Amateur-repairs%40yahoogroups.com>,
> Forrest Plumstead <fplum1@...> wrote:
> >
> > The boys at Chesapeake Amateur Radio Service (CARS - W4CAR) did it again.
> > When I lived in Virginia, one of the members loaned me an Icom 730, which
> I
> > had to return when I moved back to San Antonio.
> >
> > However they gave me a Drake TR-4 which needed some work before I left.
> They
> > tried to trouble shoot it before I left. The major problem is no
> modulation.

> > They traced mod from the mike to the filters, but ran out of time. The is
> > also a problem with a sticky loading cap.
> >
> > Well this morning a package arrived from the club president who sent me a
> > matched set of finals and the Driver tube. Here's my question. Do any of
> the
> > list members live in San Antonio and have a good test bench, and time
> > on their hands, who can help me bring this radio back to its former
> glory?
> >
> > Thanks for any help
> > 73s
> > Forrest WB5HQO
> > --
> > Forrest Plumstead fplum1@...
>
> > Plumstead and Associated Families:
> > http://freepages.genealogy.rootsweb.com/~fplum/
> > Ham Radio WB5HQO http://forrest.3h.com/main.html
> > NAQCC Member # 3678
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
NAQCC Member # 3678

[Non-text portions of this message have been removed]

3841. Re: [DrakeRadio] Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 01:01:14 UTC
From: Jim Shorney
Topic: 3817 Message: 3841

On Tue, 15 Jun 2010 14:29:00 -0000, w5rdw wrote:

>Switch cleaned yesterday with Dremel tool and other assorted tips in the Dremel box. Put everything back together and now have switch action as before.

Just curious, did you re-lubricate the switch? I've been following the thread with interest, because I have one each L-4B and L-7. The article on wb4hfn.com is great work, and I'm one of those guys that likes to take things apart that aren't necessarily intended to be taken apart. But I did notice that the article in question did not mention re-lubricating the switch.

Another point that helps preserve the life of these gadgets, with or without a soft-start, is NEVER power up the amp with the switch in the SSB position. The inrush is less in the CW postion.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3842. Re: [DrakeRadio] Re: [Amateur-repairs] Re: TR-4 Finals and driver (cross posted)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 01:04:23 UTC
From: Jim Shorney
Topic: 3840 Message: 3842

On Tue, 15 Jun 2010 19:34:05 -0500, Forrest Plumstead wrote:

>As I noted this message is cross posted. Drake Group is the other group. I
>have been a member for a while.

Also, there is the Drakelist reflector, at http://www.zerobeat.net/drakelist/ .
It is perhaps the oldest and most active, and has a searchable archive that
contains answers to a lot of questions. Note that there is an online Drakelist
forum acessible from the same page, it is NOT the same as the Drakelist email
reflector.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://www.nebraskaghosts.org

3843. Re: [DrakeRadio] Re: [Amateur-repairs] Re: TR-4 Finals and driver (cross posted)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 02:00:54 UTC
From: Forrest Plumstead
Topic: 3840 Message: 3843

Thank you for that information Jim. I will check it out.

On Tue, Jun 15, 2010 at 8:04 PM, Jim Shorney <jshorney@...> wrote:

>
>
> On Tue, 15 Jun 2010 19:34:05 -0500, Forrest Plumstead wrote:
>
> >As I noted this message is cross posted. Drake Group is the other group. I
> >have been a member for a while.
>
> Also, there is the Drakelist reflector, at
> http://www.zerobeat.net/drakelist/ .
> It is perhaps the oldest and most active, and has a searchable archive that
> contains answers to a lot of questions. Note that there is an online
> Drakelist
> forum acessible from the same page, it is NOT the same as the Drakelist
> email
> reflector.
>
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>
>

--
Forrest Plumstead fplum1@...m

Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
NAQCC Member # 3678

[Non-text portions of this message have been removed]

3844. Re: [DrakeRadio] Re: [Drake] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 08:27:44 UTC
From: g4jss@tiscali.co.uk
Topic: 3837 Message: 3844

Hello

I'm not sure which xtals you are discussing. As far as I am aware the xtal sockets on the top chassis are for optional additional bands.

The xtals under the chassis are for the normal bands and according to my handbook their position depends on the serial No. of the xmitter.

With serial No's up to and including 20856 they are mounted as follows when looking under the chassis from the facia panel end (front)

39.6 (nearest the facia)

25.1

32.1

18.1

14.6

With serial No's 20857 and above they are mounted directly the opposite i.e. the 14.6 is mounted nearest the facia and so on.

Hope this is what you are talking about.

Vic

G4JSS

[Non-text portions of this message have been removed]

3845. Re: [DrakeRadio] Re: [Drake] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 13:43:26 UTC
From: Garey Barrell
Topic: 3837 Message: 3845

Vic -

This is correct for the T-4XC, but NOT for the TR-4C! :-)

The crystals for the TR-4C are on top of the chassis, just "behind and under" the meter. It came with three crystals, in sockets 1, 2 and 4, counting from the front left. Socket 3 is for a 42.5 MHz crystal for the bottom of 10M (28.0 to 28.6), and socket 5 is for the 43.6 MHz crystal for the top of 10M (29.1 - 29.7 MHz), and these were optional. The included crystals are:

1 - 21.5 MHz for 40M

2 - 35.5 MHz for 15M

4 - 43.0 MHz for the middle of 10M (28.5 - 29.1MHz)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hello
>
> I'm not sure which xtals you are discussing. As far as I am aware the xtal sockets on the top chassis are for optional additional bands.
>
> The xtals under the chassis are for the normal bands and according to my handbook their position depends on the serial No. of the xmitter.
>
> With serial No's up to and including 20856 they are mounted as follows when looking under the chassis from the facia panel end (front)
>
> 39.6 (nearest the facia)
>
> 25.1
>
> 32.1
>
> 18.1
>
> 14.6
>
>
>

> With serial No's 20857 and above they are mounted directly the opposite i.e. the 14.6 is mounted nearest the facia and so on.
>
> Hope this is what you are talking about.
>
> Vic
>
> G4JSS
>
>

3846. Re:L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 14:46:20 UTC
From: w5rdw
Topic: 3817 Message: 3846

No, I did not lubricate it. The little spring enclosures look to be rubber, so maybe they provide some sort of lubrication by being smooth.

I want to mention the mod on the wb4hfn website is for a L4B and shows the switch being easily removed, as the screws holding down the switch are shown easily assessable from the front. But in the L-7 case, only one screw is easy to get at. The other takes a fair amount of gyration to get the screw back in its hole. A magnetic screwdriver will help here.

Roger W5RDW
--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 15 Jun 2010 14:29:00 -0000, w5rdw wrote:
>
> >Switch cleaned yesterday with Dremel tool and other assorted tips in the Dremel box. Put everything back together and now have switch action as before.
>
> Just curious, did you re-lubricate the switch? I've been following the thread
> with interest, because I have one each L-4B and L-7. The article on wb4hfn.com
> is great work, and I'm one of those guys that likes to take things apart that
> aren't necessarily intended to be taken apart. But I did notice that the
> article in question did not mention re-lubricating the switch.
>
> Another point that helps preserve the life of these gadgets, with or without a
> soft-start, is NEVER power up the amp with the switch in the SSB position. The
> inrush is less in the CW postion.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

3847. Re: L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 15:12:04 UTC
From: David & Chris Drake
Topic: 3817 Message: 3847

Jim,
Since I wrote the switch article, I'd be remiss not to respond. Yes, after cleaning up, put a bit of lube on the plungers. Probably should have included that in the article. Just a dab on side of each of the two plungers....not too much. And I don't see a need for much at all on the tip of the plunger. Just a tiny bit. They are stainless steel, and cause the rocker arm to move from one contact to the other. So.....just so they slide in and out good with the spring. Also check the springs for damage, and replace as needed. Then,....good as new.

The majority of failures are seizure of the contacts, ie: stuck on. And on the SSB-CW, it is most likely stuck in the SSB position. Most all of these can be repaired. A good thing, since few NOS switches are to be found.
73's
David
Wd9cmd

[Non-text portions of this message have been removed]

3848. Re: [Drake] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 22:56:21 UTC
From: Dick KF4NS
Topic: 3837 Message: 3848

Thanks Bill, boy do I feel stupid. I just overlooked that part of the manual. I also found the ID of the xtal next to the PTO by rescanning Garey's CD until I found a top view. I guess if I had given it more thought I would have realized it was for the calibrator since it is wired to V5. Some days it doesn't pay to get out of bed.

----- Original Message -----
From: William Houghton
To: Dick KF4NS ; DrakeRadio list ; Drake list at zerobeat ; drake@...
Sent: Tuesday, June 15, 2010 6:48 PM
Subject: Re: [Drake] TR4C crystal ID

Dick,

For 80m and 20m, the VFO signal bypass the premixer. For 40m, 15m, and 10m, the VFO and the crystal osc hetrodyne in the premixer.
40m uses a 21.5 mHz xtal, 15m uses a 35.5 Mhz xtal, and the 10m bands use 42.5, 43.0, and 43.6 MHz xtals. I'd have to open mine up (which I can't do right now) to tell their location in the xtal holder. (BTW, this is described in the theory of operation section of the manual if you need it for further reference).

Bill

From: Dick KF4NS <kf4nsradio@...>
To: DrakeRadio list <DrakeRadio@yahoogroups.com>; Drake list at zerobeat <drakelist@...>; drake@...
Sent: Tue, June 15, 2010 3:15:14 PM
Subject: [Drake] TR4C crystal ID

I was not able to find a xtal xref chart in Garey's CD, nor in the other information I have. Which xtals are for which bands (schematic is confusing), it looks like 80M and 20M have no xtal.

What is the one next to the PTO? Wish I had a chassis top view parts ID to refer to.

While I have your attention, I have read opposing views on the orientation of an added PA fan. I usually direct the air 'IN' to the compartment if the fan is strictly for the PA tubes. There is no room for a fan on top due to my desk shelving so I always attach the fan to the back.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

_____
Drake mailing list
Home: http://mailman.qth.net/mailman/listinfo/drake
Help: http://mailman.qth.net/mmfaq.htm
Post: mailto:Drake@...

This list hosted by: http://www.qsl.net
Please help support this email list: http://www.qsl.net/donate.html

[Non-text portions of this message have been removed]

3849. TR4C weak audio and poor sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-16 23:26:53 UTC
From: Dick KF4NS
Topic: 3849 Message: 3849

During the restoration I discovered what may be my worst nightmare.
The sensitivity and weak audio changes from band to band when I switch
sidebands. That to me says it is likely to be one of the filters.

Example: on 20M the trouble is on USB and on 15M it switches to LSB,
in other words the trouble is always when the sideband switch is in
the X position.

All tubes have been tested and shorted/weak tubes replaces with new
ones (pretested).

The contacts of all switches have been cleaned and the sideband switch
tested for continuity.

The 9mhz osc was adjusted for zero beat with C130 injecting a
calibrated signal to grid 1 of V12.

I have no idea if it may be an alignment problem caused by changing
several tubes so please clue me in if that would cause this trouble.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

3850. Re: [DrakeRadio] Re: VOX Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-17 23:43:58 UTC
From: Joe
Topic: 3780 Message: 3850

Hi Garey...

I am going to need to do the RCA jack modification over on the power supply as well, right?

Joe

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: [DrakeRadio] Re: VOX Connector

> Bill -
>
> There have been many homebrew versions of that stupid connector, but
> yours is a new one!
>
> The pins are 0.093" dia, and on 0.350" centers. I have used 3/32" dia
> tubing from the hobby shop, and molded the back with RTV.
>
> I still say the RCA jack is the best answer! :-)

3851. Re: [DrakeRadio] Re: VOX Connector

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-18 02:21:28 UTC
From: Garey Barrell
Topic: 3780 Message: 3851

Joe -

Yes, you might as well do it all at once!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> Hi Garey...
>
> I am going to need to do the RCA jack modification over on the power supply
> as well, right?
>
> Joe
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> Subject: [DrakeRadio] Re: VOX Connector
>
>
>
>> Bill -
>>
>> There have been many homebrew versions of that stupid connector, but
>> yours is a new one!
>>
>> The pins are 0.093" dia, and on 0.350" centers. I have used 3/32" dia
>> tubing from the hobby shop, and molded the back with RTV.
>>
>> I still say the RCA jack is the best answer! :-)
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>

3852. Fan for T4-XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-18 02:55:47 UTC
From: Richard Knoppow
Topic: 3852 Message: 3852

I decided that I should rig a fan to cool the finals.
I was lucky in finding a new 115VAC small fan at the surplus store for $5 and rigged it with grills on both sides to keep my fingers out, and put a wrap of foam weather stripping around the edges. The weatherstripping serves a dual purpose: it seals the fan to the cabinet, and it provides a bit of isolation. The foam is stuck to the fan but just sits on the cabinet. I rigged it to suck the hot air out and it seems quite effective. I was lucky in getting a fan that does not make much noise. Its rigged with a switch in the line cord. The cost of the fan, even a more expensive one, is a lot less than the cost of replacing the tubes so I think its an economy. I am tempted to fix up another one for the R-4B.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3853. Re: [DrakeRadio] Re: L-7 On-Off Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-18 03:34:18 UTC
From: Jim Shorney
Topic: 3817 Message: 3853

Hi David,

Thanks for writing, I had fogotten who wrote the article. No excuse, I could have gone and looked... :) Like I said, great work! I have taken apart all sorts of stuff, including switches, that weren't supposed to be taken apart and fixed, so your article felt like deja-vu.

You might want to update Ron with what you wrote below. Good info. THANKS!

73

-Jim

On Wed, 16 Jun 2010 11:12:04 -0400, David & Chris Drake wrote:

>Jim,
>Since I wrote the switch article, I'd be remiss not to respond. Yes, after cleaning up, put a bit of lube on the plungers. Probably should have included that in the article. Just a dab on side of each of the two plungers....not too much. And I don't see a need for much at all on the tip of the plunger. Just a tiny bit. They are stainless steel, and cause the rocker arm to move from one contact to the other. So.....just so they slide in and out good with the spring. Also check the springs for damage, and replace as needed. Then,....good as new.
>
>The majority of failures are seizure of the contacts, ie: stuck on. And on the SSB-CW, it is most likely stuck in the SSB position. Most all of these can be repaired. A good thing, since few NOS switches are to be found.
>73's
>David
>Wd9cmd
>
>
>[Non-text portions of this message have been removed]
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net

http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3854. FS: 455 kHz Filter Partial Kit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-19 21:37:16 UTC
From: Bry Carling
Topic: 3854 Message: 3854

For Sale: 455 kHz Filter Partial Kit

This is suitable for a 250 Hz bandwidth CW filter. Has 60 dB
rejection outside the pass band. Connect right after the last i.f. and
before the detector in almost any receiver design.
Two pole filter design using tubes - typically like a
6AK5 and 12AX7. Can also be adapted for use with a modern
transistor circuit.

Comes with all instructions, schemtic, complete article and
two 455 kHz hc6u crystals.

Two sockets available for an additional $5.00 with this kit.

I currently have eight of these kits left, and they are available for
$32.00 each plus shipping.

73 - Bry, AF4K

[Non-text portions of this message have been removed]

3855. Re: [Drake] TR4C crystal ID

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-19 22:01:22 UTC
From: Bry Carling
Topic: 3837 Message: 3855

If anyone needs one I have the crystals for the 28.0 to 28.05 Mcs segment
available
for sale. Those are the 42.5 Mc. crystals.

73 - Brian, AF4K

On 16 Jun 2010 at 18:56, Dick KF4NS wrote:

> For 80m and 20m, the VFO signal bypass the premixer. For 40m, 15m,
> and
> 10m, the VFO and the crystal osc hetrodyne in the premixer.
> 40m uses a 21.5 mHz xtal, 15m uses a 35.5 Mhz xtal, and the 10m
> bands
> use 42.5, 43.0, and 43.6 MHz xtals. I'd have to open mine up (which
> I
> can't do right now) to tell their location in the xtal holder. (BTW,
> this
> is described in the theory of operation section of the manual if you
> need
> it for further reference).
>
> Bill

[Non-text portions of this message have been removed]

3856. Re: Fan for T4-XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-20 22:45:18 UTC
From: w5rkl
Topic: 3852 Message: 3856

I mounted a 12VDC 80ma muffin fan from a blown PC power supply to the rear of the final cage on my T4XC. I used two long bolts, washers, and nuts fed. The bots are fed through 2 holes on the rear of the final cage. No drilling required.

The power for the fan is obtained through a half wave rectifier powered by the filament supply as it enters the transmitter. The diode is a simple 1N4007 and the filter capacitor is an 8ufd 50VDC cap and the fan runs at about 3/4 speed. The fan comes on when the AC4 is turned on and its very quiet.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
> I decided that I should rig a fan to cool the finals.
> I was lucky in finding a new 115VAC small fan at the surplus
> store for $5 and rigged it with grills on both sides to keep
> my fingers out, and put a wrap of foam weather stripping
> around the edges. The weatherstripping serves a dual
> purpose: it seals the fan to the cabinet, and it provides a
> bit of isolation. The foam is stuck to the fan but just sits
> on the cabinet. I rigged it to suck the hot air out and it
> seems quite effective. I was lucky in getting a fan that
> does not make much noise. Its rigged with a switch in the
> line cord. The cost of the fan, even a more expensive one,
> is a lot less than the cost of replacing the tubes so I
> think its an economy. I am tempted to fix up another one for
> the R-4B.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3857. Re: [DrakeRadio] Re: Fan for T4-XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-20 23:09:53 UTC
From: Dan Galligan
Topic: 3852 Message: 3857

I simply used a 117VAC fan, and some good 3M Clear mounting tape, to the top of the tank, and plug it in, when I fire up the transmitter. It keeps the finals at a nice, stable temp, and have had no issues. It is easily removable, with no damage to the case. Pulling the air out the top of the case, seems to do the job well.
Dan Galligan
W3RXO

When injustice becomes law, resistance becomes duty.
Thomas Jefferson

Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty, nor safety.
Benjamin Franklin

The price of freedom is eternal vigilance.
Thomas Jefferson

On Jun 20, 2010, at 3:45 PM, w5rkl wrote:

I mounted a 12VDC 80ma muffin fan from a blown PC power supply to the rear of the final cage on my T4XC. I used two long bolts, washers, and nuts fed. The bots are fed through 2 holes on the rear of the final cage. No drilling required.

The power for the fan is obtained through a half wave rectifier powered by the filament supply as it enters the transmitter. The diode is a simple 1N4007 and the filter capacitor is an 8ufd 50VDC cap and the fan runs at about 3/4 speed. The fan comes on when the AC4 is turned on and its very quiet.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
> I decided that I should rig a fan to cool the finals.
> I was lucky in finding a new 115VAC small fan at the surplus
> store for $5 and rigged it with grills on both sides to keep
> my fingers out, and put a wrap of foam weather stripping
> around the edges. The weatherstripping serves a dual
> purpose: it seals the fan to the cabinet, and it provides a
> bit of isolation. The foam is stuck to the fan but just sits
> on the cabinet. I rigged it to suck the hot air out and it
> seems quite effective. I was lucky in getting a fan that
> does not make much noise. Its rigged with a switch in the
> line cord. The cost of the fan, even a more expensive one,
> is a lot less than the cost of replacing the tubes so I
> think its an economy. I am tempted to fix up another one for

> the R-4B.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

3858. Re: N3JQD Bob tubes..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-21 00:37:07 UTC
From: bobsalmon@juno.com
Topic: 3858 Message: 3858

Hi. Rebuilding my TR4. I found a few bad tubes. The rig will not function except on 80m.
Anyone have a 12BA6 for sale?
Thanks, Bob N3JQD

_____
FIRE SALE: iPads for $23.74?
SPECIAL REPORT: Unique auction site can save you 90% off retail.
http://thirdpartyoffers.juno.com/TGL3141/4c1eb48a22b1f447e2dst06vuc

3859. Re: [DrakeRadio] Re: N3JQD Bob tubes..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-22 07:09:23 UTC
From: lon brickley
Topic: 3858 Message: 3859

BOB ANTIQUE ELECTRONICS.COM HAS ANYTHING AND EV ERYTHING FOR DRAKE..TUBES, ELECTROLYTIC C APS ETC. GO ON THEIR WEBSITE AND TAKE NOTES. LON W4AFS

----- Original Message -----
From: <bobsalmon@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 20, 2010 8:37 PM
Subject: [DrakeRadio] Re: N3JQD Bob tubes..

> Hi. Rebuilding my TR4. I found a few bad tubes. The rig will not
> function except on 80m. Anyone have a 12BA6 for sale?
> Thanks, Bob N3JQD
>
> ~~~~~~
> FIRE SALE: iPads for $23.74?
> SPECIAL REPORT: Unique auction site can save you 90% off retail.
> http://thirdpartyoffers.juno.com/TGL3141/4c1eb48a22b1f447e2dst06vuc
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

3860. Re: [DrakeRadio] Re: N3JQD Bob tubes..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-22 11:25:39 UTC
From: bobsalmon@juno.com
Topic: 3858 Message: 3860

OK, thank you!

Bob

_____
iPads for $23.48?
Special Report: iPads & Laptops are being auctioned for an incredible 85% off!
http://thirdpartyoffers.juno.com/TGL3141/4c209dc9b8a2a465763st03vuc

3861. drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-23 16:59:29 UTC
From: w1fued@sbcglobal.net
Topic: 3861 Message: 3861

Does anyone know of a source for the dial windows i.e., the plexiglass with the red line for the r4 series, especially for the r4b?

I have searched the resources I could find, but to no avail.

Thanks,
Ed
W1FU

3862. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-23 21:21:50 UTC
From: Richard Knoppow
Topic: 3861 Message: 3862

----- Original Message -----
From: <w1fued@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, June 23, 2010 9:59 AM
Subject: [DrakeRadio] drake r4b dial windows?

> Does anyone know of a source for the dial windows i.e.,
> the plexiglass with the red line for the r4 series,
> especially for the r4b?
>
> I have searched the resources I could find, but to no
> avail.
>
> Thanks,
> Ed
> W1FU
>

A source of thin plastic sheet would be welcome. I can't find any locally, I've tried a couple of hardware stores, a couple of art supply stores, a plastic store; no luck. They have thicker stuff. I don't need to replace a Drake window but do need to make some indicators for other stuff, for instance a Hallicrafters Sky Buddy.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3863. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-23 22:00:25 UTC
From: Garey Barrell
Topic: 3861 Message: 3863

Richard Knoppow wrote:
> ----- Original Message -----
> From:<w1fued@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, June 23, 2010 9:59 AM
> Subject: [DrakeRadio] drake r4b dial windows?
>
>
>
>> Does anyone know of a source for the dial windows i.e.,
>> the plexiglass with the red line for the r4 series,
>> especially for the r4b?
>>
>> I have searched the resources I could find, but to no
>> avail.
>>
>> Thanks,
>> Ed
>> W1FU
>>
>>
> A source of thin plastic sheet would be welcome. I
> can't find any locally, I've tried a couple of hardware
> stores, a couple of art supply stores, a plastic store; no
> luck. They have thicker stuff. I don't need to replace a
> Drake window but do need to make some indicators for other
> stuff, for instance a Hallicrafters Sky Buddy.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

Richard -

I found two 8" x 10" x 1/16" sheets at my local Michael's craft shop.
Company called Gallery Glass, "Styrene Blanks". Plaid Enterprises,
Norcross, GA. Don't recall what it cost, but I'm sure in the $2-5 range

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3864. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-23 22:08:48 UTC
From: Richard Knoppow
Topic: 3861 Message: 3864

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, June 23, 2010 3:00 PM
Subject: Re: [DrakeRadio] drake r4b dial windows?

>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From:<w1fued@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Wednesday, June 23, 2010 9:59 AM
>> Subject: [DrakeRadio] drake r4b dial windows?
>>
>>
>>
>>> Does anyone know of a source for the dial windows i.e.,
>>> the plexiglass with the red line for the r4 series,
>>> especially for the r4b?
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>>> I have searched the resources I could find, but to no
>>> avail.
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>>> Thanks,
>>> Ed
>>> W1FU
>>>
>>>
>> A source of thin plastic sheet would be welcome. I
>> can't find any locally, I've tried a couple of hardware
>> stores, a couple of art supply stores, a plastic store;
>> no
>> luck. They have thicker stuff. I don't need to replace a
>> Drake window but do need to make some indicators for
>> other
>> stuff, for instance a Hallicrafters Sky Buddy.
>>
>>
>> --
>> Richard Knoppow
>> Los Angeles
>> WB6KBL
>> dickburk@...
>>
>
```

> Richard -
>
> I found two 8" x 10" x 1/16" sheets at my local Michael's
> craft shop.
> Company called Gallery Glass, "Styrene Blanks". Plaid
> Enterprises,
> Norcross, GA. Don't recall what it cost, but I'm sure in
> the $2-5 range
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
I was able to find some 1/16" plastic. I wanted
something a bit thinner for the Hallicrafters set although
this stuff will do. I guess the dial window in the Drake
_is_ thicker material and would have to be.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3865. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-24 02:07:39 UTC
From: Garey Barrell
Topic: 3861 Message: 3865

Richard -

I have considered the clear plastic used over some office products. I bought a stack of CD labels that was about an inch thick, enclosed in clear plastic, and punched to hang on a pegboard. It had two 'sheets' of 1/32" or even 1/64" thick on either side! You know the stuff that you're sure is going to cut a finger off before you are able to wrestle the product out of the package! :-) It's a 'little' flexible, but pretty good.

Depending upon size, you might be able to use a piece cut from a CD box. Nice and clear, but perhaps too thick still.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, June 23, 2010 3:00 PM
> Subject: Re: [DrakeRadio] drake r4b dial windows?
>
>
>
>> Richard Knoppow wrote:
>>
>>> ----- Original Message -----
>>> From:<w1fued@...>
>>> To:<DrakeRadio@yahoogroups.com>
>>> Sent: Wednesday, June 23, 2010 9:59 AM
>>> Subject: [DrakeRadio] drake r4b dial windows?
>>>
>>>
>>>
>>>
>>>> Does anyone know of a source for the dial windows i.e.,
>>>> the plexiglass with the red line for the r4 series,
>>>> especially for the r4b?
>>>>
>>>> I have searched the resources I could find, but to no
>>>> avail.
>>>>

>>>> Thanks,
>>>> Ed
>>>> W1FU
>>>>
>>>>
>>>>
>>> A source of thin plastic sheet would be welcome. I
>>> can't find any locally, I've tried a couple of hardware
>>> stores, a couple of art supply stores, a plastic store;
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>>> luck. They have thicker stuff. I don't need to replace a
>>> Drake window but do need to make some indicators for
>>> other
>>> stuff, for instance a Hallicrafters Sky Buddy.
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>>>
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>>> Richard Knoppow
>>> Los Angeles
>>> WB6KBL
>>> dickburk@...
>>>
>>>
>> Richard -
>>
>> I found two 8" x 10" x 1/16" sheets at my local Michael's
>> craft shop.
>> Company called Gallery Glass, "Styrene Blanks". Plaid
>> Enterprises,
>> Norcross, GA. Don't recall what it cost, but I'm sure in
>> the $2-5 range
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
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> I was able to find some 1/16" plastic. I wanted
> something a bit thinner for the Hallicrafters set although
> this stuff will do. I guess the dial window in the Drake
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>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL

> dickburk@...
>
>
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> Yahoo! Groups Links
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3866. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-24 04:36:06 UTC
From: Jim Shorney
Topic: 3861 Message: 3866

On Wed, 23 Jun 2010 22:07:39 -0400, Garey Barrell wrote:

>
>Depending upon size, you might be able to use a piece cut from a CD
>box. Nice and clear, but perhaps too thick still.

Would there be enough "real estate" on one of the clear protector disks that
are on the ends of the CD/DVD spindle packages to work? That's some interesting
plastic. I recently made a repro dial for a Swan-manufactured radio from a pair
of them. It looks good. They could be used for lots of things.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3867. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-24 02:25:01 UTC
From: Mike
Topic: 3861 Message: 3867

You may have tried it but how about the clear sheet protectors
like are used in binders or to protect a cover sheet?

Mike/K7MS

_____
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, June 23, 2010 7:07:39 PM
Subject: Re: [DrakeRadio] drake r4b dial windows?

Richard -

I have considered the clear plastic used over some office products. I
bought a stack of CD labels that was about an inch thick, enclosed in
clear plastic, and punched to hang on a pegboard. It had two 'sheets'
of 1/32" or even 1/64" thick on either side! You know the stuff that
you're sure is going to cut a finger off before you are able to wrestle
the product out of the package! :-) It's a 'little' flexible, but
pretty good.

Depending upon size, you might be able to use a piece cut from a CD
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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, June 23, 2010 3:00 PM
> Subject: Re: [DrakeRadio] drake r4b dial windows?
>
>
>
>> Richard Knoppow wrote:
>>
>>> ----- Original Message -----
>>> From:<w1fued@...>
>>> To:<DrakeRadio@yahoogroups.com>
>>> Sent: Wednesday, June 23, 2010 9:59 AM
>>> Subject: [DrakeRadio] drake r4b dial windows?
>>>

>>>
>>>
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>>>> Does anyone know of a source for the dial windows i.e.,
>>>> the plexiglass with the red line for the r4 series,
>>>> especially for the r4b?
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>>>> I have searched the resources I could find, but to no
>>>> avail.
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>>>> Thanks,
>>>> Ed
>>>> W1FU
>>>>
>>>>
>>>>
>>> A source of thin plastic sheet would be welcome. I
>>> can't find any locally, I've tried a couple of hardware
>>> stores, a couple of art supply stores, a plastic store;
>>> no
>>> luck. They have thicker stuff. I don't need to replace a
>>> Drake window but do need to make some indicators for
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>>> stuff, for instance a Hallicrafters Sky Buddy.
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>>>
>>> --
>>> Richard Knoppow
>>> Los Angeles
>>> WB6KBL
>>> dickburk@...
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>> Richard -
>>
>> I found two 8" x 10" x 1/16" sheets at my local Michael's
>> craft shop.
>> Company called Gallery Glass, "Styrene Blanks". Plaid
>> Enterprises,
>> Norcross, GA. Don't recall what it cost, but I'm sure in
>> the $2-5 range
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>>

> I was able to find some 1/16" plastic. I wanted
> something a bit thinner for the Hallicrafters set although
> this stuff will do. I guess the dial window in the Drake
> _is_ thicker material and would have to be.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
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> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

3868. Re: [DrakeRadio] drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-24 13:30:10 UTC
From: Robert Kerr
Topic: 3861 Message: 3868

McMaster-Carr sells 12" square by 1/16" thick sheets of clear
polycarbonate. ("Lexan" is a trade name for a similar product)
This material is easy to cut and drill and is inexpensive.
McMaster-Carr accepts small orders.

http://www.mcmaster.com/#polycarbonate-sheets/=7o63bz

Bob K4ERR

On 06/23/2010 12:59 PM, w1fued@... wrote:
>
> Does anyone know of a source for the dial windows i.e., the plexiglass
> with the red line for the r4 series, especially for the r4b?
>
> I have searched the resources I could find, but to no avail.
>
> Thanks,
> Ed
> W1FU
>
>

[Non-text portions of this message have been removed]

3869. Does Anyone Know.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-24 15:53:49 UTC
From: Joe
Topic: 3869 Message: 3869

....KA4FFP, Leo, down Florida way?

He has an MN-2000 he would like to sell me, and that I would like to buy, but...I don't know him and I get cautious sending $200.00 plus dollars to someone I know nothing about.

Thought I would ask if anyone will speak for him......

He has a pretty impressive shack pic on QRZ.

Thanks all!

Joe Wolfe
WA6RKN
Reno, Nevada

3870. Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-25 07:42:26 UTC
From: stykemup
Topic: 3861 Message: 3870

Ed, I got this email a while back...

We're talking about the clear, large dial with the 000 to 500 numbers.

I don't know how long this takes, but I'll let you know if and when they are available.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

<www.k4oah.com>

k3waw

3871. Crystals for 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 09:06:32 UTC
From: gerrykav
Topic: 3871 Message: 3871

Hi... I am on the hunt for crystals for my 2B.
The frequencies I am looking for are...

25.6MHz
9MHz
23.4MHz
14.0MHz
14.5MHz

I am located in Ireland, but hopefully there will be someone that can ship here...

73 to all
Gerry EI8DRB

3872. Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 11:01:56 UTC
From: atlasstuff
Topic: 3872 Message: 3872

Morning to all on the list from a very sunny England.

Hoping that soneone out there can give me a definitive answer regarding what should be the manufacturer original cabinet paint finish for a vintage Drake RV-7 external PTO.

The background to my query is that I have just purchased an RV-7, described by the seller as being in 'mint' condition. I paid 'top dollar' for it based on his description. Having now taken delivery and sat it alongside by late serial number TR-7, I was very disappointed to note that the colour and texture of the paint on the RV-7 was a mile away from that on the transceiver.

The paint colour of the RV-7 I have received is a very blue-grey (possibly similar to that on the 4-series Drake equipment, if memory serves, though I have never owned any) and a pretty smooth to the touch texture. On the transceiver I have, the paint colour is a dark grey, toward black, and a very fine crackle texture.

I recall that early TR-7 had some sort of 'sticky' paint issue, resulting in many of them being resprayed by their owners. I am wondering whether the same might be the history of this RV-7.

The RV-7 came in its original Drake box and in all other respects is as described. The service tag in the box reads: Serial 488, with a date of 9 August 1978.

Any and all help appreciated.

Regards,

Mark.

3873. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 12:39:04 UTC
From: Garey Barrell
Topic: 3872 Message: 3873

Mark -

My answer is far from "definitive", but I believe what you have is just a very early example of the RV-7, which first came out mid-summer of 1978. I have never seen the so-called "sticky" paint in the wild. I have a TR-7, 1200 series, that has a color as you describe, i.e., smooth, very dark gray closer to black. Whether this was once "sticky", I can't say. Perhaps yours is just one that didn't/hasn't gone sticky. I have a TR-7 9000, and RV-7 2600 which are the gray, textured finish you describe, and which I believe is the most prevalent paint scheme.

There were aftermarket covers sold by Drake, possibly to fix the sticky issue, that were a black wrinkle. This was the finish that was being used on their commercial TV equipment at the time. But they have a definite 'wrinkle' finish.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

atlasstuff wrote:
> Morning to all on the list from a very sunny England.
>
> Hoping that soneone out there can give me a definitive answer regarding what should be the manufacturer original cabinet paint finish for a vintage Drake RV-7 external PTO.
>
> The background to my query is that I have just purchased an RV-7, described by the seller as being in 'mint' condition. I paid 'top dollar' for it based on his description. Having now taken delivery and sat it alongside by late serial number TR-7, I was very disappointed to note that the colour and texture of the paint on the RV-7 was a mile away from that on the transceiver.
>
> The paint colour of the RV-7 I have received is a very blue-grey (possibly similar to that on the 4-series Drake equipment, if memory serves, though I have never owned any) and a pretty smooth to the touch texture. On the transceiver I have, the paint colour is a dark grey, toward black, and a very fine crackle texture.
>
> I recall that early TR-7 had some sort of 'sticky' paint issue, resulting in many of them being resprayed by their owners. I am wondering whether the same might be the history of this RV-7.
>
> The RV-7 came in its original Drake box and in all other respects is as described. The service tag in the box reads: Serial 488, with a date of 9 August 1978.
>

> Any and all help appreciated.
>
> Regards,
>
> Mark.
>
>
>

3874. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 13:42:44 UTC
From: Jim Shorney
Topic: 3872 Message: 3874

On Sat, 26 Jun 2010 08:39:04 -0400, Garey Barrell wrote:

> I have never seen the so-called "sticky" paint in the wild.

Garey,

You are either very lucky, or live a sheltered life. :) Probably half of what I see out here in flyover country is sticky paint. The amount of "stickyness" does seem to vary, so perhaps the problem lay in variations in the paint formulation or application technique. I also have an old DIgitec frequency counter that has sticky paint, although a different color.

FWIW, the oven cleaner procedure published on the WB4HFN web site works very well for eliminating the "stickyness".

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3875. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 14:52:17 UTC
From: Joe
Topic: 3872 Message: 3875

As does a nice powder coat job.....however, the color and texture.....

<<GRIN>>

Joe - WA6RKN
Reno, Nevada

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

> FWIW, the oven cleaner procedure published on the WB4HFN web site works
> very
> well for eliminating the "stickyness".

3876. Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 17:44:10 UTC
From: w1fued@sbcglobal.net
Topic: 3861 Message: 3876

Thanks for all the suggetions, I am talking about the piece with the red line that goes behind the fron panel with the red lin and the red pin inside.....I was wondering if anyone made them.....I have cut some from plexiglass and they look good, looking for a good way to make a crisp red line...I have some auto pinstriping I have bought and looks pretty good, but not that good. I dont know how to make a nice red line, may try a sign painter and have him do a bunch to make it worth it. Was actually wondering if anyone was selling repo's of this item, not the actual dial iwth numbers.

--- In DrakeRadio@yahoogroups.com, "w1fued@..." <w1fued@...> wrote:

>
> Does anyone know of a source for the dial windows i.e., the plexiglass with the red line for the r4 series, especially for the r4b?
>
> I have searched the resources I could find, but to no avail.
>
> Thanks,
> Ed
> W1FU
>

3877. Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 17:48:43 UTC
From: w1fued@sbcglobal.net
Topic: 3861 Message: 3877

Hi Garey,

No I am talking about the plexiglass rectangular window with the red line....I broke mine when trying to replace the red pin. Wonder if anyone is making them...I have cut some plexiglass here, routed out the slide and drilled the hole in about 10 pieces, but the crisp red line eludes me...I tried some auto pinspriping...and it looks good, though not perfect.
Wondering if guys knew of someone selling one with a nice red line.
Ed

--- In DrakeRadio@yahoogroups.com, "stykemup" <k3waw@...> wrote:
>
> Ed, I got this email a while back...
>
> We're talking about the clear, large dial with the 000 to 500 numbers.
>
> I don't know how long this takes, but I'll let you know if and when they are available.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>
> <www.k4oah.com>
>
> k3waw
>

3878. Re: [DrakeRadio] Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 17:55:38 UTC
From: Joe
Topic: 3861 Message: 3878

If it were me, I would go to a leather shop and look for one of their small, very sharp, 'V' gouges, then using a straight edge, practice making a very small V shaped gouge. Then using some good red aircraft enamel, 'flow' it into the V, and let it dry.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <w1fued@...>
Subject: [DrakeRadio] Re: drake r4b dial windows?

>I have cut some from plexiglass and they look good, looking for a good way >to make a crisp red >line... I dont know how to make a nice red line, may >try a sign painter and have him do a bunch to >make it worth it.

3879. Re: [DrakeRadio] Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 18:23:43 UTC
From: Garey Barrell
Topic: 3861 Message: 3879

Ed -

OK. Donnie, WA9TGT, used to make them, but he got out of the business.
Might be worth an email to ask how he did it.

Since you seem to have a router, I'd use a small end mill to make the
line, and then fill it with either acrylic paint or possibly the red
engraving fill stick that AES (used?) to have. The acrylic works pretty
well since you can fill and then wipe the surface for a nice sharp edge.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
> Hi Garey,
>
> No I am talking about the plexiglass rectangular window with the red line....I broke mine when trying to replace the red pin. Wonder if anyone is making them...I have cut some plexiglass here, routed out the slide and drilled the hole in about 10 pieces, but the crisp red line eludes me...I tried some auto pinspriping...and it looks good, though not perfect.
> Wondering if guys knew of someone selling one with a nice red line.
> Ed
>
> --- In DrakeRadio@yahoogroups.com, "stykemup"<k3waw@...> wrote:
>
>> Ed, I got this email a while back...
>>
>> We're talking about the clear, large dial with the 000 to 500 numbers.
>>
>> I don't know how long this takes, but I'll let you know if and when they are available.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>
>> <www.k4oah.com>
>>
>> k3waw
>>
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3880. Re: [DrakeRadio] Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 18:31:36 UTC
From: Garey Barrell
Topic: 3861 Message: 3880

Joe -

That would work, but the 'original' had the groove and the paint fill on
the inside. So you need a 'flat bottomed' groove.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> If it were me, I would go to a leather shop and look for one of their small,
> very sharp, 'V' gouges, then using a straight edge, practice making a very
> small V shaped gouge. Then using some good red aircraft enamel, 'flow' it
> into the V, and let it dry.
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> ----- Original Message -----
> From:<w1fued@...>
> Subject: [DrakeRadio] Re: drake r4b dial windows?
>
>
>
>> I have cut some from plexiglass and they look good, looking for a good way
>> to make a crisp red>line... I dont know how to make a nice red line, may
>> try a sign painter and have him do a bunch to>make it worth it.
>>
>

3881. Re: [DrakeRadio] Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-26 18:38:29 UTC
From: Joe
Topic: 3861 Message: 3881

I didn't look that closely when I took mine apart..but...I think the V with enamel, viewed from the back, would still look pretty good. I would do some experimenting to see. The biggest problem I think anyone would encounter, would be making the groove without chipping the edges..plexi has a tendency to do that. I wonder if working with Lexan would be any easier....more expensive but not as brittle.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] Re: drake r4b dial windows?

> Joe -
>
> That would work, but the 'original' had the groove and the paint fill on
> the inside. So you need a 'flat bottomed' groove.

3882. Re: drake r4b dial windows?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 02:15:05 UTC
From: no8j
Topic: 3861 Message: 3882

Just a thought, would chart tape, like they use on the dry erase boards work? It comes in 1/16" width and comes in red. I've used that on dry erase boards and lasts forever.

73 NO8J

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> I didn't look that closely when I took mine apart..but...I think the V with
> enamel, viewed from the back, would still look pretty good. I would do some
> experimenting to see. The biggest problem I think anyone would encounter,
> would be making the groove without chipping the edges..plexi has a tendency
> to do that. I wonder if working with Lexan would be any easier....more
> expensive but not as brittle.
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> Subject: Re: [DrakeRadio] Re: drake r4b dial windows?
>
>
> > Joe -
> >
> > That would work, but the 'original' had the groove and the paint fill on
> > the inside. So you need a 'flat bottomed' groove.
>

3883. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 03:31:59 UTC
From: Jim Shorney
Topic: 3872 Message: 3883

On Sat, 26 Jun 2010 07:52:17 -0700, Joe wrote:

>As does a nice powder coat job.......however, the color and texture.......
>
><<GRIN>>

Texture, schmexture... As long as there is paint there, I'm happy. I rarely see the case when the radio is in the operating position and being used... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3884. L-4 vs. L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 08:04:46 UTC
From: William Houghton
Topic: 3884 Message: 3884

Hi guys,

I know htis subject came up a few weeks back, but I'll be damned if I can find the posts about it. So I appologize for asking something that has been asked before. What are the differences between an L-4 and an L-4B ?

thanks.

Bill

[Non-text portions of this message have been removed]

3885. Re: [DrakeRadio] L-4 vs. L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 08:17:50 UTC
From: navydude1962@yahoo.com
Topic: 3884 Message: 3885

3-400 vs 3-500 in the B
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: William Houghton <rdrbill@...>
Sender: DrakeRadio@yahoogroups.com
Date: Sun, 27 Jun 2010 01:04:46
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] L-4 vs. L-4B

Hi guys,

I know htis subject came up a few weeks back, but I'll be damned if I can find the posts about it. So I appologize for asking something that has been asked before. What are the differences between an L-4 and an L-4B ?

thanks.

Bill

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3886. Re: [DrakeRadio] L-4 vs. L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 13:44:02 UTC
From: Garey Barrell
Topic: 3884 Message: 3886

Bill -

There are several differences.

1. The L-4 had 3-400Z tubes while the L-4B had the "new" 3-500Z tubes

2. The L-4B added a front panel control to adjust ALC level, with a
push-pull switch to STANDBY the amp.

3. The L-4 had a relative power meter and the L-4B had a Bruene
wattmeter with 300 and 3000 FWD and 300 REF.

73, Garey - K4OAH
Glen Allen, VA

William Houghton wrote:
> Hi guys,
>
> I know htis subject came up a few weeks back, but I'll be damned if I can find the posts about it. So I appologize for asking something that has been asked before. What are the differences between an L-4 and an L-4B ?
>
> thanks.
>
> Bill
>
>

3887. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 14:08:00 UTC
From: Garey Barrell
Topic: 3872 Message: 3887

Jim -

Nope, not a one. The closest thing I have is a Heath IM-16 FETVM that I bought new that has a 'sticky' beige paint. It's 'thick' and became sticky, almost like it was originally a thick coat of paint that was almost dry when it was applied. I'll have to try the oven cleaner on it! It's a nice BIG meter. Of course I have three IM-18s, two IM-11s and two IM-28s, but that's a different problem. I just can't leave them there on the ground at hamfests. Plus they are nice for voltage readings in the 4 Series as long as some clown hasn't done the "move the 1M probe resistor inside" modification that's floating around the internet. Gee, ya think there was a reason the Heath engineers (and others) went to all the trouble to build a switching probe? Nahh, this is "an improvement". Rant off.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Sat, 26 Jun 2010 08:39:04 -0400, Garey Barrell wrote:
>
>
>> I have never seen the so-called "sticky" paint in the wild.
>>
> Garey,
>
> You are either very lucky, or live a sheltered life. :) Probably half of what I
> see out here in flyover country is sticky paint. The amount of "stickyness"
> does seem to vary, so perhaps the problem lay in variations in the paint
> formulation or application technique. I also have an old DIgitec frequency
> counter that has sticky paint, although a different color.
>
> FWIW, the oven cleaner procedure published on the WB4HFN web site works very
> well for eliminating the "stickyness".
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.

> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
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> Yahoo! Groups Links
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3888. Re: L-4 vs. L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 14:12:50 UTC
From: David & Chris Drake
Topic: 3884 Message: 3888

Hi, some early L4b's were shipped with 3-400z's, then later, exclusively 3-500z's
All L-4's were 3-400z's and many were upgraded to 3-500's later.
You may want to go to the Drake Museum site, or to Ron Baker's site for more detailed information
including pictures and manuals.
http://www.dproducts.be/DRAKE_MUSEUM/
www.wb4hfn.com

Both of the above sites are excellent Drake references for all products.
Click on both and then save them to your "Drake" favorites folder !!

Here's a pic of an L-4 from the museum site:
http://www.dproducts.be/DRAKE_MUSEUM/l-4.htm

Note the missing standby/AGC control. The AGC control was on the back. Also of note is the meter changes from L4 to L4B, as well as the meter switch. As I remember, there were no changes to the power supply. Basically the same, but the L4B is preferred.

The L4B came in two cosmetic styles, the earlier one had a silver trim ring (unpainted aluminum) around the dark painted area. This was a match to the R4 thru R4B series trim. When the "C" line came out, the entire area was painted and was a match to the C line cosmetics.

Others may wish to add, but I believe I've covered the major items of difference.

Have fun,
David
Wd9cmd

[Non-text portions of this message have been removed]

3889. Re: Does Anyone Know.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 14:34:21 UTC
From: MIke
Topic: 3869 Message: 3889

Check to see if he has a paypal account, it will be a safer transaction.
Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> ....KA4FFP, Leo, down Florida way?
>
> He has an MN-2000 he would like to sell me, and that I would like to buy,
> but...I don't know him and I get cautious sending $200.00 plus dollars to
> someone I know nothing about.
>
> Thought I would ask if anyone will speak for him......
>
> He has a pretty impressive shack pic on QRZ.
>
> Thanks all!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

3890. Bob N3JQD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 17:44:42 UTC
From: bobsalmon@juno.com
Topic: 3890 Message: 3890

Working on my TR4. It has 2 bad tubes at the moment; V7 & V12. I'm obtaining replacements this week.

My question today is what number tube should be in V5's position? My op. manual claims that it should be a 12BA6. I have on my chassis the marking of what appears to be 6BA6. But, it's nearly worn off. I have in there a functioning 6BA6. But to complicate matters worse, I found a website that claims it should be a 6BZ6.
What should be in there? Thank you for any help you can provide.

The rig only works on 80m, both Rx & Tx are great. At least 110W output. No other band functons at all.
Please help.
Bob N3JQD

_____
FIRE SALE: iPads for $23.74?
SPECIAL REPORT: Unique auction site can save you 90% off retail.
http://thirdpartyoffers.juno.com/TGL3141/4c278e4b26bdb52495fst03vuc

3891. Re: [DrakeRadio] Bob N3JQD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 18:15:16 UTC
From: Garey Barrell
Topic: 3890 Message: 3891

Bob -

It's amazing that you have that many 'bad' tubes..... I've worked on a LOT of Drake radios and I can't recall ever finding more than three bad tubes in a single radio. How are you determining that they are 'bad'??

Today's question: First off, there were eight versions of the TR-4. Your manual is for one of the first four versions, which DID use a 12BA6 for V5. Yours is version five (5), and is the only version with a 6BA6 at V5. Version 6 and up all used a 6BZ6 at V5. So. You have the right radio, wrong schematic! You obviously need my CD! :-)

The good news here is that either tube will work fine at V5, which is the Crystal Calibrator. The 6BZ6 is a little 'hotter' tube, so will probably last a little longer, and have a little higher output on 10M. Facts: Either will work, if your Crystal Calibrator is working you probably don't need a new one. If it was my radio, I'd replace it (if necessary) with a 6BZ6, and let the next guy wonder why it has the 'wrong' tube in it! :-)

The correct schematic for your unit will have the number 466827500 bottom center under the title.

Does your radio NOT work on 20M?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

bobsalmon@... wrote:
> Working on my TR4. It has 2 bad tubes at the moment; V7& V12. I'm obtaining replacements this week.
>
> My question today is what number tube should be in V5's position? My op. manual claims that it should be a 12BA6. I have on my chassis the marking of what appears to be 6BA6. But, it's nearly worn off. I have in there a functioning 6BA6. But to complicate matters worse, I found a website that claims it should be a 6BZ6.
> What should be in there? Thank you for any help you can provide.
>
> The rig only works on 80m, both Rx& Tx are great. At least 110W output. No other band functons at all.
> Please help.
> Bob N3JQD
>
>

>

3892. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-27 20:46:34 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3892

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3893. Re: [DrakeRadio] Bob N3JQD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 00:40:24 UTC
From: bobsalmon@juno.com
Topic: 3890 Message: 3893

Thank you Garey for your response.
I have tested the tubes using a large in-store type Radio Shack tester from the 60's/70's.
You can see it on my QRZ bio page.
One of the new 12BA6 tubes that I received tested very good. Upon re-trying my old tube, that same test position shows 'bad'. So, I'm convinced the tester is functioning.
No, the rig doesn't work on 20m. The Xtal cal. works though.
I suppose I better get that CD from you. :)
Bob

_____
Get Free Email with Video Mail & Video Chat!
http://www.juno.com/freeemail?refcd=JUTAGOUT1FREM0210

3894. Re: [DrakeRadio] Bob N3JQD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 04:27:51 UTC
From: Garey Barrell
Topic: 3890 Message: 3894

Bob -

That's unusual, working on 80 but not 20. A part of the circuit (Band Oscillator and Premixer) is not used on 80 AND 20. The 9 MHz Carrier Oscillator is mixed with the 5 MHz PTO, giving 80M with the Mixer's difference output, and 20M with the sum output.

That type of tester is a simple emission test, which tells little more than that the filament is good. Keep in mind that it's primary purpose in Radio Shack was to sell Radio Shack tubes! :-) The only real test is if it works in the radio. It's best to keep a set of spare tubes that have been 'tested' by putting them one at a time into a working radio. If it still works, remove that tube and put it back in the box. Then put the original tube back in. DO NOT replace ALL the tubes at one shot.

Are all the tubes lit (hot)? There are a couple of series/parallel heater strings in that TR-4, kinda like the old Christmas tree lights, one goes out, they all go out.

I'll have to look at the circuit to see if I can find something that would allow it to work on 80 but not 20. I would suggest that while you're waiting for tubes that you go through the entire radio with a screwdriver and check each of the sheet metal screws that hold things like tube sockets and terminal strips to the chassis. Loosen each one just slightly and then retighten firmly. This will fix a "lot" of strange and/or intermittent problems. I'd also suggest that you get a bottle of CAIG DeoxiT D100L and use the needle to apply just a drop to each switch tag. If you really want to go first class, get a can of CAIG FaderLube and spray it inside each pot. These two chemicals will save a bunch of time troubleshooting dirt!

I think you'd find the CD very helpful, it has the correct schematic and other info for your version.

Post here if we can help!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

bobsalmon@... wrote:
> Thank you Garey for your response.
> I have tested the tubes using a large in-store type Radio Shack tester from the 60's/70's. You can see it on my QRZ bio page.

> One of the new 12BA6 tubes that I received tested very good. Upon re-trying my old tube, that same test position shows 'bad'. So, I'm convinced the tester is functioning.
> No, the rig doesn't work on 20m. The Xtal cal. works though.
> I suppose I better get that CD from you. :)
> Bob
>
>

3895. Re: [DrakeRadio] Bob N3JQD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 05:10:24 UTC
From: Richard Knoppow
Topic: 3890 Message: 3895

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 27, 2010 9:27 PM
Subject: Re: [DrakeRadio] Bob N3JQD

> Bob -
>
> >
> I think you'd find the CD very helpful, it has the correct
> schematic and
> other info for your version.
>
I want to re-enforce this. I chased my tail over several
T$ problems until I got Garey's CD. Among other things he
has good photos of the innards that show where things are
and how they should be wired. I had a problem with not being
able to attain a good carrier null. After looking at the
pictures in Garey's CD I found that the wiring to the
balanced modulator was wrong. OK according to the schematic
but mechanically wrong and the difference in stray
capacitance was enough to upset things. He also has very
high res schematics that you can have printed out large
scale, they are _very_ helpful in tracing down circuits.
Unfortunately, some Drake schematics look like maps of the
Chicago freight yards, a large scale one plus a couple of
colored pencils will make a lot of stuff clear.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3896. Re: [DrakeRadio] Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 13:34:46 UTC
From: Jim Shorney
Topic: 3872 Message: 3896

Hi Garey,

On Sun, 27 Jun 2010 10:08:00 -0400, Garey Barrell wrote:

>Nope, not a one. The closest thing I have is a Heath IM-16 FETVM that
>I bought new that has a 'sticky' beige paint.

Give it time, you'll run actoss it sooner or later. It seems like most of the TR-7 I see around this part of the world are sticky. Accessories are maybe 50/50. Both of my RV-7 are sticky (I think, the spare is stored away in it's original box); the R-7A, MS-7, SP-75, and CS-7 indoor box are not. I've thought about eitehr repainting or acquiring one of the newer covers for the TR-7, but in the end, I just don't really care that much because I rarely see the cover when the radio is doing what it was meant to do. It's not a shelf queen, after all. :) Over 1000 Qs on 20 fone over field day on that radio.

I think my Heath freq counter may have the sticky paint, but I'd have to dig it out and look at it. It's the Nixie model, and is a collector's item of sorts - purchased at an employee auction, it still has the Hy-Gain Electronics asset tag attached.

>Plus they are nice for voltage
>readings in the 4 Series as long as some clown hasn't done the "move the
>1M probe resistor inside" modification that's floating around the
>internet. Gee, ya think there was a reason the Heath engineers (and
>others) went to all the trouble to build a switching probe? Nahh, this
>is "an improvement". Rant off.....

I have been suitably educated, Master Barrell. I have one of the (non-sticky) Heath VTVMs *somewhere*, I believe with the appropriate probe. I've been meaning to search it out, especially now that I have discovered that I have a Heath PK-3 RF probe for it (with the correct connector). I shortened the mile-long ground lead on the probe (Heath engineers didn't know EVERYTHING) and tested it, and it works fine. I had thought about doing that "mod", but didn't since I had the probe. Now that I know, I will not invoke the wrath of Barrell by sullying my VTVM with Philistine hacks. ;)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3897. Re: Does Anyone Know.....

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 14:17:43 UTC
From: arsnf7z
Topic: 3869 Message: 3897

Joe,

perhaps it is just an odd coincidence, but I too, have been trying to buy Leo's MN-2000 for several weeks now. I email him with no reply, then, days later I email again and receive a 'yes, it's still for sale'. so, I go through the motions once again, and nothing. no response. it's one of the very few pre-purchase transactions that I have been suspicious about enough to reconsider.

based on your observations (as well as my own), this pursuit of Leo's MN-2000 is terminated. if Leo came through for you, enjoy your new Drake tuner!

by the way ... I'm still looking for a MN-2000 from a serious seller!

73's

NF7Z, daniel

3898. 4CFRONTPANELS .. still in business?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 14:25:27 UTC
From: arsnf7z
Topic: 3898 Message: 3898

I have submitted two inquiries to Tony Mills at 4CFRONTPANELS for a RV4-C panel, with no response. perhaps he is on vacation or ham conventions, but I am surprised that no response had been forthcoming. still in business?

I recently purchased a nice RV4-C, arrived as advertised, except for the 1" dent in the panel, as if someone stuck their thumb in bread dough! the seller claims it wasn't there when it was shipped (it obviously was) ... sigh.

oh yes, anyone have a spare black screw for the Drake panels? mine has a 'replacement' that is 3X the size it should be. I'll pay, of course, for the part and shipping.

73's

NF7Z, daniel

3899. Re: [DrakeRadio] 4CFRONTPANELS .. still in business?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-28 17:32:21 UTC
From: Garey Barrell
Topic: 3898 Message: 3899

Daniel -

I don't know about Tony. I certainly hope is still making panels.

A possible hint on your panel dent. If the metal is not creased, you might try the old idea of applying a vise or C-clamp with wood 'bumpers' to the dent. Careful compression under heavy pressure can often make such a dent invisible, or at least minimize it. When you remove the panel, keep a sharp eye out for the small, black spacers between the panel and the chassis on each screw. Easy to lose, and not a common hardware item.

Ron, WB4HFN has "original" cabinet screws. Most are pretty chewed up by now, and all new ones sure look nice.

<http://www.wb4hfn.com/DRAKE/DrakePartsService.htm>

Click on ***Drake Parts, Materials & Resources
<http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/DRAKE-TECH-EXCHANGE-15.pdf>*

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
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>
> I recently purchased a nice RV4-C, arrived as advertised, except for the 1" dent in the panel, as if someone stuck their thumb in bread dough! the seller claims it wasn't there when it was shipped (it obviously was) ... sigh.
>
> oh yes, anyone have a spare black screw for the Drake panels? mine has a 'replacement' that is 3X the size it should be. I'll pay, of course, for the part and shipping.
>
> 73's
>
> NF7Z, daniel
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

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3900. Re: Drake RV-7 cabinet paint finish question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-29 08:07:52 UTC
From: atlasstuff
Topic: 3872 Message: 3900

Thanks to Garey, Jim and Joe for responses re. my question.

If the paint finish is indeed original, then I shall certainly leave it as such, despite it not matching that of my transceiver.

I gave the Jones plug on the end of the cable attached to the RV-7 a good clean with some electrical contact cleaner on a cotton bud last night. That stopped the frequency instability problem I was having whenever the plug / cable was moved. The intermittent power problem has also gone away - I suspect that this too was related to dirty plug contacts.

Now a 'keeper'!

Regards,

Mark.

--- In DrakeRadio@yahoogroups.com, "atlasstuff" <g4fph@...> wrote:
>
> Morning to all on the list from a very sunny England.
>
> Regards,
>
> Mark.
>

3901. W-4 versions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-29 23:27:35 UTC
From: William Houghton
Topic: 3901 Message: 3901

I just noticed that the two W-4's that I have are slightly different. One has the "silver" trim (bare aluminum, I think) stripe around the ouside perimeter of the faceplate like a TR-3. The other has no silver trim stripe like my TR-4C. Are both styles relatively common ?

Bill

[Non-text portions of this message have been removed]

3902. Re: [DrakeRadio] W-4 versions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-30 02:12:07 UTC
From: Garey Barrell
Topic: 3901 Message: 3902

Bill -

The B-Line had the bright trim around the panels, and the C-Line was the no border version. Both were pretty common. The very early ones were painted, more like the 2-B and A-Line, and they went to what I think was more like heavy vinyl 'contact paper' sometime during the B-Line years.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> I just noticed that the two W-4's that I have are slightly different. One has the "silver" trim (bare aluminum, I think) stripe around the ouside perimeter of the faceplate like a TR-3. The other has no silver trim stripe like my TR-4C. Are both styles relatively common ?
>
> Bill
>
>

3903. FS: TR-7 Service Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-30 13:24:23 UTC
From: Garey Barrell
Topic: 3903 Message: 3903

There is an original Drake TR-7 Service Manual for sale on eHam Classifieds.

$50 shipped CONUS

http://eham.net/classifieds/detail/320829

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3904. Re: [DrakeRadio] FS: TR-7 Service Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-30 19:12:49 UTC
From: Les Zwiebel WB6ORZ
Topic: 3903 Message: 3904

Thanks, Garey. Others can save themselves the time or phone call, since I just bought it.
(((((73)))))
Les
---===WB6ORZ===---

.
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, June 30, 2010 6:24 AM
Subject: [DrakeRadio] FS: TR-7 Service Manual

There is an original Drake TR-7 Service Manual for sale on eHam Classifieds.

$50 shipped CONUS

http://eham.net/classifieds/detail/320829

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

3905. Re: [DrakeRadio] FS: TR-7 Service Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-30 20:53:42 UTC
From: Garey Barrell
Topic: 3903 Message: 3905

Les -

Cool! Glad it went to one of "us"!!

73, Garey - K4OAH
Glen Allen, VA

Les Zwiebel WB6ORZ wrote:
> Thanks, Garey. Others can save themselves the time or phone call, since I just bought it.
> (((((73)))))
> Les
> ---===WB6ORZ===---
>
> .
> ----- Original Message -----
> From: Garey Barrell
>
>
>
> There is an original Drake TR-7 Service Manual for sale on eHam Classifieds.
>
> $50 shipped CONUS
>
> http://eham.net/classifieds/detail/320829
>
> --
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

3906. Re: [Drakelist] TR4C weak audio and poor sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-06-30 22:01:55 UTC
From: Dick KF4NS
Topic: 3906 Message: 3906

Well guys, I found the trouble. I decided to try inserting a signal with my sig gen and started with the antenna jack, then went to the external antenna jack, then went to the fuse lamp socket (tested lamp removed) on the relay side, then to the T-9 side, VOILA! Good strong signal S9+5 at 50uv. I knew then that it had to be related to the relay. I pulled the 6EV7 relay tube V19 and it tested good. I substituted another 6EV7 and the trouble went away completely. I put the original tube back in and still no trouble !?? Socket was in good shape so it's a conundrum.

Hope it is not the T/R relay since I can see no way to remove the cover. Usually these relays are not used as a plugin so nothing to anchor down the base and rock the cover back and forth to pop it off.

Bottom line, the rig works great. Still no doubt that the LSB filter is bad. Adjusted C130 best I can. It will be good enough. Can't afford to buy the INRAD filter set. Will still scope it out at the CXR BAL and at the filters.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

On 6/16/2010 7:26 PM, Dick KF4NS wrote:
> During the restoration I discovered what may be my worst nightmare.
> The
> sensitivity and weak audio changes from band to band when I switch
> sidebands. That to me says it is likely to be one of the filters.
>
> Example: on 20M the trouble is on USB and on 15M it switches to LSB,
> in
> other words the trouble is always when the sideband switch is in the
> X
> position.
>
> All tubes have been tested and shorted/weak tubes replaced with new
> ones
> (pretested).
>
> The contacts of all switches and pots have been cleaned and the
> sideband
>switch tested for continuity.
>
> The 9mhz osc was adjusted for zero beat with C130 injecting a
> calibrated
> signal to grid 1 of V12.

>
> I have no idea if it may be an alignment problem caused by changing
> several tubes so please clue me in if that would cause this trouble.
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>

3907. Re: [DrakeRadio] Re: [Drakelist] TR4C weak audio and poor sensitivity

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-01 01:54:15 UTC
From: Richard Knoppow
Topic: 3906 Message: 3907

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>;
<drake@...>; "Drake list at zerobeat"
<drakelist@...>
Sent: Wednesday, June 30, 2010 3:01 PM
Subject: [DrakeRadio] Re: [Drakelist] TR4C weak audio and
poor sensitivity

> Well guys, I found the trouble. I decided to try inserting
> a signal
> with my sig gen and started with the antenna jack, then
> went to the
> external antenna jack, then went to the fuse lamp socket
> (tested lamp
> removed) on the relay side, then to the T-9 side, VOILA!
> Good strong
> signal S9+5 at 50uv. I knew then that it had to be related
> to the
> relay. I pulled the 6EV7 relay tube V19 and it tested
> good. I
> substituted another 6EV7 and the trouble went away
> completely. I put
> the original tube back in and still no trouble !?? Socket
> was in good
> shape so it's a conundrum.
>
> Hope it is not the T/R relay since I can see no way to
> remove the
> cover. Usually these relays are not used as a plugin so
> nothing to
> anchor down the base and rock the cover back and forth to
> pop it off.
>
> Bottom line, the rig works great. Still no doubt that the
> LSB filter
> is bad. Adjusted C130 best I can. It will be good enough.
> Can't afford
> to buy the INRAD filter set. Will still scope it out at
> the CXR BAL
> and at the filters.
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!

You never know with the contacts in tube sockets and tube pins. I had a 12AX7 that mysteriously would not work in a T-4XB but tested OK. I discovered that the problem happened when I had the tube in an extender to measure voltages. When I put the tube in the tube tester _on_ the extender, one side was nearly dead. The extender worked on all other tubes. The problem: corrosion on the tube pins. It happened that they made good contact with the tester socket and transmitter socket but not the extender socket. After wire brushing the tube pins the tube worked fine in the extender. So, it could still be a bit of corrosion on the tube pins and working the tube in the socket cleared it up. Try removing the tube scrubbing the pins with a fine wire brush or something else that will remove any corrosion and then putting a bit of contact cleaner on them and work the tube in the socket. This will help clean the socket. Probably never act up again.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3908. Different W4's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-02 02:08:16 UTC
From: Joe
Topic: 3908 Message: 3908

I was amazed that I never saw the difference between the different W-4's..mine has a solid dark grey face, with no silver banding. Sure stands out when placed amid my B's....guess now I have to find a silver outlined model....just to be model correct.

Better yet...anyone have a broken W-4 with the silver outlined face? Maybe we could strike a deal!

Does this spending of money never end???? LOL!

Joe Wolfe
WA6RK
Reno, Nevada

3909. TR7 MIC Wiring - question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 03:37:13 UTC
From: kb1sth
Topic: 3909 Message: 3909

I have a Drake TR7 and Astatic D-104 Silver Eagle.
Drake plug has 4 pins.
If anyone can tell me which color goes on which pin it would be greatly appreciated.
The wires are:RED
BLACK
WHITE
SHIELD
Thanks
Ivan
73
KB1STH

3910. Re: [DrakeRadio] TR7 MIC Wiring - question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 05:39:37 UTC
From: Jim Shorney
Topic: 3909 Message: 3910

Ivan,

You will need to Google for the wire color codes for the Astatic. The TR-7 mic pinout is as follows:

1 - Audio (low level)
2 - PTT
3 - Ground (PTT and Audio common)
4 - Audio (high level, may not be avaiable in older TR-7)

If you are using the preamp in the Astatic, I would recommend using pin 4 for audio as opposed to pin 1. Pin 4 has a 470K resistor in series to reduce the level of high output mics, which would make it easier to properly adjust your Astatic preamp.

Of course, you don't really need that preamp, but that's a whole 'nother message. Also, the way that pre-amped mics are normally switched internally, you will not be able to use VOX unless you come up with a way to open the PTT line from the mic.

FWIW, I have used a Golden Eagle D-104 with the pre-amp disconnected and an additional 470K in series with the mic element, and received very good audio reports. I'm using a black Turner +3 (not a +3B) now. It matches the radio better from a visual standpoint, and I get very good reports on it as well (despite the fact that I detest pre-amped mics).

73

-Jim

On Sat, 03 Jul 2010 03:37:13 -0000, kb1sth wrote:

>I have a Drake TR7 and Astatic D-104 Silver Eagle.
>Drake plug has 4 pins.
>If anyone can tell me which color goes on which pin it would be greatly appreciated.
>The wires are:RED
> BLACK
> WHITE
> SHIELD
>Thanks
>Ivan
>73
>KB1STH
>
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3911. Newbie in ham radio & Drake R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 11:18:59 UTC
From: Gheorghe
Topic: 3911 Message: 3911

Greetings from Romania!

Im a newbie in ham radio and will soon start receiving with my first rx, a Drake R4B I got yesterday. I am hoping next week I will get some help from a friend to setup an antenna, until then Ill try to get familiar with the equipment.
I have a few basic questions and, if you'll be so kind to answer me, please bear in mind that I am hopeless with technical issues.
Anyway, even if I haven't used it in any way, I like the look and feel of this radio :)

1) I only have the R4b, no power source or loudspeaker. It has a power chord that can be plugged in the regular 220 V public service electric network. This is how we "tested" the radio when I got it the other day. Should I think of getting a dedicated power source for the radio, as an interface between it and the wall plug, or it is ok if I use it as is?

2) Any 4 ohm speaker would do the work? Should I pay any attention to any issue in particular?

3) Maybe this should've been the first: could you please point me to an online manual for the radio?

4) according to the guy that sold me the radio, the radio is fitted with these quartz filters:

quartz external (back of the radio)
26.1 MHz / 22.6 MHz / 20.6 MHz / 17.1 MHz / 15.6 MHz / 28.6 MHz / 32.6 MHz / 36.6 MHz.

quartz internal
14.6 MHz / 18.1 MHz / 25.1 MHz / 32.1 MHz / 39.6 MHz.

Is this a regular lineup?

Thanks and 73s

George
YO9415PH (receive only)

3912. Re: [DrakeRadio] Newbie in ham radio & Drake R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 14:07:54 UTC
From: Garey Barrell
Topic: 3911 Message: 3912

George -

1) No additional power source is necessary, but a loudspeaker IS unless you have headphones available. They will work without a speaker, but not as convenient.

2) There is a jack on the rear panel marked SPKR, and you need a "4 ohm" speaker with an "RCA Phono" plug. 4 ohm speakers can be difficult to find, so an 8 ohm would be ok if you are unable to get a 4 ohm. A 'standard' speaker is fine, a 6" x 9" oval or round. You do not need any special cones or fancy features!

3) A reasonable copy of the manual is at

<http://www.wb4hfn.com/DRAKE/DrakeManuals/R4B/Manual_R4B.htm>

There is an excellent document regarding the R-4B and Drake radios in general at

<http://www.zerobeat.net/drakelist/drakemod/drmodtoc.html>

4) The second 'internal' group of crystals provide coverage of the five of the six Amateur radio bands available when the receiver was built. There have been three bands added since then.

The first 'external' group of crystals are for additional coverage. You can determine the frequency band covered by each crystal by subtracting 11.1 from the listed frequency. This will tell you the frequency of the receiver when the dial is at '000'. Turning the dial will tune from that frequency to 500 kc higher, e.g., the first crystal in the first list of 26.1 Mc will allow you to tune from 26.1 - 11.1 = 15.0 Mc to 15.5 Mc. Choosing crystals and how to use them is shown in the manual.

One last item. You will need a 'shorted' RCA Phono plug inserted in the MUTE jack on the back panel for the Noise Blanker (NB) and Calibrator (Cal) positions of the FUNCTION switch to operate.

Welcome to the group!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Gheorghe wrote:
> Greetings from Romania!
>

> Im a newbie in ham radio and will soon start receiving with my first rx, a Drake R4B I got yesterday. I am hoping next week I will get some help from a friend to setup an antenna, until then Ill try to get familiar with the equipment.
> I have a few basic questions and, if you'll be so kind to answer me, please bear in mind that I am hopeless with technical issues.
> Anyway, even if I haven't used it in any way, I like the look and feel of this radio :)
>
> 1) I only have the R4b, no power source or loudspeaker. It has a power chord that can be plugged in the regular 220 V public service electric network. This is how we "tested" the radio when I got it the other day. Should I think of getting a dedicated power source for the radio, as an interface between it and the wall plug, or it is ok if I use it as is?
>
> 2) Any 4 ohm speaker would do the work? Should I pay any attention to any issue in particular?
>
> 3) Maybe this should've been the first: could you please point me to an online manual for the radio?
>
> 4) according to the guy that sold me the radio, the radio is fitted with these quartz filters:
>
> quartz external (back of the radio)
> 26.1 MHz / 22.6 MHz / 20.6 MHz / 17.1 MHz / 15.6 MHz / 28.6 MHz / 32.6 MHz / 36.6 MHz.
>
> quartz internal
> 14.6 MHz / 18.1 MHz / 25.1 MHz / 32.1 MHz / 39.6 MHz.
>
> Is this a regular lineup?
>
> Thanks and 73s
>
> George
> YO9415PH (receive only)
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>
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3913. RE: Crystals for 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 14:32:12 UTC
From: Bry Carling
Topic: 3871 Message: 3913

Gerry,

I have he following available:

9.000 MHz
14.000 MHz
24.500 MHz
25.000 MHz
I'm still working on getting some at 14.5 MHz

I can ship these to Ireland.

Brian, AF4K

1. Crystals for 2B
Posted by: "gerrykav" gerryk777@... gerrykav
Date: Sat Jun 26, 2010 2:06 am ((PDT))

Hi... I am on the hunt for crystals for my 2B.
The frequencies I am looking for are...

25.6MHz
9MHz
23.4MHz
14.0MHz
14.5MHz

I am located in Ireland, but hopefully there will be someone that can ship
here...

73 to all
Gerry EI8DRB

[Non-text portions of this message have been removed]

3914. Re: Newbie in ham radio & Drake R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 16:01:25 UTC
From: Gheorghe
Topic: 3911 Message: 3914

Thanks Kris and Garey,

Ill read and digest your advices and do some homework untill next week :)

Wonderful help,

73

George
YO4915PH

3915. FS: More groups of ham band crystals - Most are $2 and $3 each

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-03 20:23:32 UTC
From: Bry Carling
Topic: 3915 Message: 3915

FOR SALE:
I have several more groups of ham band crystals now available.

Most of these are around $2.00 or $3.00 each. Great for experimenting
and day to day operations on 75 through 10m bands.

Some of them are hc6u crystals. Most are the standard FT-243 types.

Example: QTY 7 - FT243 crystals for $14.00

Have a look here:
http://www.af4k.com/basementcrystals.htm

73 - Brian AF4K

[Non-text portions of this message have been removed]

3917. TR4C filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-06 19:34:57 UTC
From: Dick KF4NS
Topic: 3917 Message: 3917

I plan on replacing the multi cap can with individual caps as part of the restoration, but first I have a couple questions.

1. Why is it there to begin with since the AC-4 has already filtered the 250V and why are there 3 different cap values? (I already replaced the 10mfd at 25V right at the pin8 connection of V19A with a 10 @ 50V)

2. The three values I have in mine are 60-20-10mfd at 250V so I planned on using a 100-33-22 @ 350V but would appreciate your input on these values I chose.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

3918. Re: [DrakeRadio] TR4C filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-06 21:45:15 UTC
From: Garey Barrell
Topic: 3917 Message: 3918

Dick -

The AC-4 was designed to drive the T-4X Series transmitters AND the TR-4 Series transceivers. I don't really KNOW, but I suspect that the AC-4 was designed for the T-4X, and the additional current and reduced ripple requirements of the receiver portion of the TR-4 drove the need for more filter capacitors. Also, since the DC-4 was used with the TR-4, with the possibility of long leads between the two could have driven the need for more power supply decoupling.

All models used the 60 - 20 - 10 Twist-Lok cap. The 20 uF was used to just decouple the main +250V at the input to the TR-4. The 60 uF and 10 uF were both used to further decouple the 245V and 235V supply busses for the low-level IF and AF stages.

Electrolytic caps available when the TR-4 was designed and built, were rated at D C Working Volts (DCWV), not as a maximum. The capacitance and voltage values you have selected will work just fine. Tom at HayseedHamfest.com has drop-in replacements which make for a much neater job. It's pretty crowded under the chassis.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Dick KF4NS wrote:
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> the restoration, but first I have a couple questions.
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> 1. Why is it there to begin with since the AC-4 has already filtered
> the 250V and why are there 3 different cap values? (I already
> replaced the 10mfd at 25V right at the pin8 connection of V19A with a
> 10 @ 50V)
>
> 2. The three values I have in mine are 60-20-10mfd at 250V so I
> planned on using a 100-33-22 @ 350V but would appreciate your input on
> these values I chose.
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
>

3919. Re: [DrakeRadio] TR4C filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-06 21:51:08 UTC
From: William Houghton
Topic: 3917 Message: 3919

Hi Dick,

1) I haven't measured the length of the cable on my AC-4 but I would guess its about 2 to 2.5 ft. Without the multi-cap can, the 260V supply terminal would see twice the AC-4 cable length between the 260V terminal and the chassis ground (i.e a wire from the 260V source in the supply to the terminal in the radio and another wire between the supply's ground and the radio's ground). Ideally you want the voltage source terminals in the chassis to present a good AC ground between the terminal at the radio's chassis. At RF going through 4 or 5 feet of cable might not make for a good ground. Adding the caps on the chassis I suspect is a solution for this. There is a series resistor from the 260V supply that drops it down to 250V if I remember the schematic. Adding a cap here does the same - making a good RF ground.

The amount of capacitance you need depends on the expected load and the amount of ripple you can accept. As a general rule, increasing the capacitance decreases the ripple but will increase the peak diode current during the time that the supply diodes are forwarded biased. I think the values you have will be fine.

Just my guesses as to why it was done this way.

Bill

From: Dick KF4NS <kf4nsradio@verizon.net>
To: DrakeRadio list <DrakeRadio@yahoogroups.com>; drake@mailman.qth.net; Drake list at zerobeat <drakelist@...>
Sent: Tue, July 6, 2010 12:34:57 PM
Subject: [DrakeRadio] TR4C filter cap

I plan on replacing the multi cap can with individual caps as part of
the restoration, but first I have a couple questions.

1. Why is it there to begin with since the AC-4 has already filtered
the 250V and why are there 3 different cap values? (I already
replaced the 10mfd at 25V right at the pin8 connection of V19A with a
10 @ 50V)

2. The three values I have in mine are 60-20-10mfd at 250V so I
planned on using a 100-33-22 @ 350V but would appreciate your input on
these values I chose.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

[Non-text portions of this message have been removed]

3920. Re: [DrakeRadio] TR4C filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-06 22:08:03 UTC
From: Jim Shorney
Topic: 3917 Message: 3920

On Tue, 6 Jul 2010 14:51:08 -0700 (PDT), William Houghton wrote:

>1) I haven't measured the length of the cable on my AC-4 but I would guess its about 2 to 2.5 ft. Without the multi-cap can, the 260V supply terminal would see twice the AC-4 cable length between the 260V terminal and the chassis ground (i.e a wire from the 260V source in the supply to the terminal in the radio and another wire between the supply's ground and theÂ radio's ground). Ideally you want the voltage source terminals in the chassis to present a good AC ground between the terminal at the radio's chassis. At RF going through 4 or 5 feet of cable might not make for a good ground. Adding the caps on the chassis I suspect is a solution for this. There is a series resistor from the 260V supply that drops it down to 250V if I remember the schematic. Adding a cap here does the same - making a good RF ground.

The basic point is sound, but electrolytic caps do not make RF grounds. They
are there mainly for filtering and decoupling at AC line and audio frequencies.
Smaller caps, usually disc ceramic, across the same points take care of any RF
that might wander by.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3921. 2 questions about the C-line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 01:51:26 UTC
From: arsnf7z
Topic: 3921 Message: 3921

I've been reading my notes on R4C alignment, and found the step of adding two resistors to 150V and ground, to separate wafers on the bandswitch. I don't have my schematics with me (vacationing in Canada). what is the purpose of this?

secondly, I noted that when using the T4XC and R4C slaved, that the CW sidetone is diabled when the tuning mode is set to 'separate'. why? it seems a worthy feature to have CW sidetone on all modes. 'separate, rcvr, xmit'.

73's

NF7Z

3922. Re: [DrakeRadio] TR4C filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 02:24:41 UTC
From: Garey Barrell
Topic: 3917 Message: 3922

Jim Shorney wrote:
> On Tue, 6 Jul 2010 14:51:08 -0700 (PDT), William Houghton wrote:
>
>
>> 1) I haven't measured the length of the cable on my AC-4 but I would guess its about 2 to 2.5 ft. Without the multi-cap can, the 260V supply terminal would see twice the AC-4 cable length between the 260V terminal and the chassis ground (i.e a wire from the 260V source in the supply to the terminal in the radio and another wire between the supply's ground and the? radio's ground). Ideally you want the voltage source terminals in the chassis to present a good AC ground between the terminal at the radio's chassis. At RF going through 4 or 5 feet of cable might not make for a good ground. Adding the caps on the chassis I suspect is a solution for this. There is a series resistor from the 260V supply that drops it down to 250V if I remember the schematic. Adding a cap here does the same - making a good RF ground.
>>
>
> The basic point is sound, but electrolytic caps do not make RF grounds. They
> are there mainly for filtering and decoupling at AC line and audio frequencies.
> Smaller caps, usually disc ceramic, across the same points take care of any RF
> that might wander by.
>
>
Jim -

Agreed. I think the original intent was to decouple the power busses from possible noise pickup on the potentially long power leads from a DC-4 supply, and of course to provide a good low impedance power source inside the radio. They serve a similar purpose with the AC-4, but in this case they also improve ripple under the heavier current loads of the TR-4 over the T-4X, plus the decoupling and additional ripple reduction for the low level AF and IF stages. A good idea when the supply is 'remote' to provide a low impedance AC point inside the radio. The T-4X has C129 internal for the same reason.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

3923. Re: [DrakeRadio] 2 questions about the C-line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 02:37:54 UTC
From: Garey Barrell
Topic: 3921 Message: 3923

You can safely disregard the 'alignment loads' called out in the manual. I think the original intent was to detune T4 primary and T3 while adjusting the INJ trimmer caps, possibly to simulate the loading of the INJ cable? The best procedure is to adjust the INJ trimmers in both units with the two cabled together, but of course Drake couldn't do that at manufacture since they were sold separately. Anyway, I have heard from several 'knowledgeable' sources that Drake quit using the loads as well.

I may be mistaken, but I believe the SIDETONE IS present even in SEPARATE. It's too late for me to attack it tonight, but I'll look at the schematic tomorrow. Perhaps someone else knows the answer and can clear it up.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> I've been reading my notes on R4C alignment, and found the step of adding two resistors to 150V and ground, to separate wafers on the bandswitch. I don't have my schematics with me (vacationing in Canada). what is the purpose of this?
>
> secondly, I noted that when using the T4XC and R4C slaved, that the CW sidetone is diabled when the tuning mode is set to 'separate'. why? it seems a worthy feature to have CW sidetone on all modes. 'separate, rcvr, xmit'.
>
> 73's
>
> NF7Z
>
>

3924. Re: 2 questions about the C-line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 03:43:43 UTC
From: arsnf7z
Topic: 3921 Message: 3924

thanks .. oh yeah, I had the anti-vox gain set too low and couldn't hear the sidetone in 'separate' tuning mode. the sidetone level seems to change depending on mode. it does work in all the modes however. my mistake.

73's

NF7Z

3925. Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 03:45:18 UTC
From: Dave Tipton
Topic: 3925 Message: 3925

My first station was a T4X/R4C combo back in 1985. I've just decided to rebuild my original station with a few liberties, and need advice on what Microphone to buy. The rig comes with the connector, but as I recall, a Shure 440 or a D104 were the mics of choice for this rig. I've never been a fan of the way D104's look. They remind me too much of a CB mic. So, should I forget about my hangup and go with one of those, or try to find a Shure? Other than Ebay, are there any Drake centric swap groups?

Thanks,
Dave, W5DMT

3926. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 05:34:03 UTC
From: Jim Shorney
Topic: 3925 Message: 3926

What do you want, a DX machine or a casual QSO machine? The Sure 444 variants provide an excellent, natural 'dynamic mic' sound suitable for casual QSOs and rag chewing. An un-amplified D-104, Turner 254HC, EV 729, or other ceramic mic will provide a "crisper" response that works well for DXing and contesting. The unexpected surprise of my collection in the ceramic category is the Turner +3, which amounts to being a Drake 7075 with a built in compressor amp. Or, more accurately, the Drake 7075 is a rebadged Turner +3 without the compressor amp. I don't like amplified mics as a general rule, but the +3 has garnered such good reports that I've been using it on my TR-7 lately. I may yet bypass the amplifier and essentially make it a Drake 7075, who knows? The rare Drake 729SRD is a rebadged EV 729.

http://www.dproducts.be/drake_museum/nouvellepage4.htm

I find my best deals on mics at local hamfests, flea markets, and sometimes garage sales. All of the above, except the Drake rebadged versions, I have found that way in the $10-25 range.

Keep in mind that the D-104 head was around long before CBers discovered them, and was available with various pre-T-UG8 stands and mounts. :)

73

-Jim

On Wed, 07 Jul 2010 03:45:18 -0000, Dave Tipton wrote:

>My first station was a T4X/R4C combo back in 1985. I've just decided to rebuild my original station with a few liberties, and need advice on what Microphone to buy. The rig comes with the connector, but as I recall, a Shure 440 or a D104 were the mics of choice for this rig. I've never been a fan of the way D104's look. They remind me too much of a CB mic. So, should I forget about my hangup and go with one of those, or try to find a Shure? Other than Ebay, are there any Drake centric swap groups?
>
>Thanks,
>Dave, W5DMT
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3927. RE: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 05:43:04 UTC
From: Dave Tipton, W5DMT
Topic: 3925 Message: 3927

To be honest, I'm looking for a ragchew mic. I'll probably just put the thing on 3820 and forget it (With an occasional trip to the CW portion of the band for nostalgia). There are a group of friends up in PA, that I like to chat with there.

Thanks for the insight, it's definitely helpful. Maybe I'll check around at the next Hamfest, which is only a few weeks away.

Dave, W5DMT

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Wednesday, July 07, 2010 12:34 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Question on Microphones for TR4

What do you want, a DX machine or a casual QSO machine? The Sure 444 variants
provide an excellent, natural 'dynamic mic' sound suitable for casual QSOs and
rag chewing. An un-amplified D-104, Turner 254HC, EV 729, or other ceramic mic
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73

-Jim

On Wed, 07 Jul 2010 03:45:18 -0000, Dave Tipton wrote:

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>Thanks,
>Dave, W5DMT
>
>

--
Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

3928. Re: [DrakeRadio] Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 07:44:14 UTC
From: Joe
Topic: 3928 Message: 3928

That brings up another question....on the B lines.....Is there a Heil replacement element that can be installed in an unamplified D104, that would be good for general ragchewing AND DX work?

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Question on Microphones for TR4

>
> What do you want, a DX machine or a casual QSO machine?

3929. JPS, NTR-1 DSPNoise/Tone Reducers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 07:52:07 UTC
From: Joe
Topic: 3929 Message: 3929

Has anyone used this device on a Drake to reduce the white noise?

I have a West Mountain DSP speaker on my TS-2000 and a Heil DSP speaker on my FT-857D. They do a good job of reducing the extremely high background noise level I have at my location. (20 over S9).

I wonder of the JPS NTR-1 is any good at that. Fellow in New Jersey named Steve Torma has a couple for sale, and as I have a couple B Line radios I would like to use but can't due to the high noise level.....

Joe Wolfe
WA6RKN
Reno, Nevada

3930. Want a couple

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 13:19:55 UTC
From: Victor
Topic: 3930 Message: 3930

Hello all
Trying to get a couple of parts:-
1. 1.5mhz CW filter for R-4C
2. Brushed aluminium disc that fits into the centre of one of the main (large)tuning knobs of the MN-7.
Tried this side of the pond with no joy.
Any help appreciated.
Vic - G4JSS

3931. RE: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 15:18:33 UTC
From: Walter Milton
Topic: 3925 Message: 3931

Dave,

I have used a D-104 with my Drake twins for many years and I just love it for working DX. I use a Shure 444 for ragchewing. I always wondered what a CB mike looks like? Since the D-104 was around long before CB .

Walt, KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Dave Tipton
Sent: Tuesday, July 06, 2010 11:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Question on Microphones for TR4

My first station was a T4X/R4C combo back in 1985. I've just decided to rebuild my original station with a few liberties, and need advice on what Microphone to buy. The rig comes with the connector, but as I recall, a Shure 440 or a D104 were the mics of choice for this rig. I've never been a fan of the way D104's look. They remind me too much of a CB mic. So, should I forget about my hangup and go with one of those, or try to find a Shure? Other than Ebay, are there any Drake centric swap groups?

Thanks,
Dave, W5DMT

[Non-text portions of this message have been removed]

3932. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 17:21:38 UTC
From: Kris Merschrod
Topic: 3925 Message: 3932

I, too, have used a D-104 w/o amp for close to 30 years with both the TR-4 and TX-4s
Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Walter Milton
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, July 07, 2010 11:18 AM
Subject: RE: [DrakeRadio] Question on Microphones for TR4

Dave,

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Walt, KA2NJF

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Behalf Of Dave Tipton
Sent: Tuesday, July 06, 2010 11:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Question on Microphones for TR4

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fan of the way D104's look. They remind me too much of a CB mic. So, should
I forget about my hangup and go with one of those, or try to find a Shure?
Other than Ebay, are there any Drake centric swap groups?

Thanks,
Dave, W5DMT

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

3933. Re: [DrakeRadio] Want a couple

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 19:29:30 UTC
From: Craig Roberts
Topic: 3930 Message: 3933

Hi Vic,

For the knob inlays, try *Charlie* Talbott, K3ICH* *

pincon@... <mailto:pincon@...>

He makes them for Collins and Drake gear.

73,

Craig
W3CRR

[Non-text portions of this message have been removed]

3934. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 21:39:03 UTC
From: Paul Pollock
Topic: 3925 Message: 3934

Hi Dave W5DMT,

I finally got my TR-4 operational a few weeks ago (thanks to Garey and others, but especially Jeff Covelli who refurbished the TR-4).
Found that my original antenna was the culprit in a serious RF-feedback problem. Nobody's ideas (locally) fixed it, so I ended up erecting a new antenna (folded dipole). RF-Feedback gone, and wow does the TR-4 work great. The guy that sold me the radio (and RV-3 and AC-4) also gave me a Shure 450, which had been dropped and it broke at the neck. Used crazy glue on it, and have found excellent voice reports.

I hope you find a mic that suits you, the radio shines with several mics. Suggestions from many folks on this SIG are all good <grin>.

Have fun and good luck!

-Paul Pollock
KD7BWB

On Jul 6, 2010, at 8:45 PM, Dave Tipton wrote:

> My first station was a T4X/R4C combo back in 1985. I've just decided to rebuild my original station with a few liberties, and need advice on what Microphone to buy. The rig comes with the connector, but as I recall, a Shure 440 or a D104 were the mics of choice for this rig. I've never been a fan of the way D104's look. They remind me too much of a CB mic. So, should I forget about my hangup and go with one of those, or try to find a Shure? Other than Ebay, are there any Drake centric swap groups?
>
> Thanks,
> Dave, W5DMT
>
>

[Non-text portions of this message have been removed]

3935. Re: [DrakeRadio] 2 questions about the C-line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 20:43:58 UTC
From: Richard Knoppow
Topic: 3921 Message: 3935

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 06, 2010 7:37 PM
Subject: Re: [DrakeRadio] 2 questions about the C-line

> You can safely disregard the 'alignment loads' called out
> in the
> manual. I think the original intent was to detune T4
> primary and T3
> while adjusting the INJ trimmer caps, possibly to simulate
> the loading
> of the INJ cable? The best procedure is to adjust the INJ
> trimmers in
> both units with the two cabled together, but of course
> Drake couldn't do
> that at manufacture since they were sold separately.
> Anyway, I have
> heard from several 'knowledgeable' sources that Drake quit
> using the
> loads as well.
>
> I may be mistaken, but I believe the SIDETONE IS present
> even in
> SEPARATE. It's too late for me to attack it tonight, but
> I'll look at
> the schematic tomorrow. Perhaps someone else knows the
> answer and can
> clear it up.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> arsnf7z wrote:
>> I've been reading my notes on R4C alignment, and found
>> the step of adding two resistors to 150V and ground, to
>> separate wafers on the bandswitch. I don't have my
>> schematics with me (vacationing in Canada). what is the
>> purpose of this?
>>
>> secondly, I noted that when using the T4XC and R4C

>> slaved, that the CW sidetone is diabled when the tuning
>> mode is set to 'separate'. why? it seems a worthy feature
>> to have CW sidetone on all modes. 'separate, rcvr, xmit'.
>>
>> 73's
>>
>> NF7Z
>>
Unless the C series is very much different from the B
the sidetone is certainly there in "Separate".
Also, I followed Garey's advise in tuning up my R-4B
without the loads and it worked fine. I use it with a T-4XB.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3936. TR4C sideband differences ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 23:32:37 UTC
From: arsnf7z
Topic: 3936 Message: 3936

just an observation ... I noticed that using the 'audio' test to align the 9Mhz oscillator doesn't really illuminate how the filters are matched. there is a +6db difference between the lower and upper sideband filters, the LSB filter showing far greater loss. I just bought a new Tektronix Arbitrary Waveform Generator which should shed some light on the gain differences, perhaps due to filter-alignment though I doubt it. anyone else see this much differential loss between sidebands?

I am really impressed with the TR4C. it outperforms my R4C, slightly, it's that hot, but the Drake implementation of AM is really sad. that's why I also have a T4XC!

NF7Z, daniel

3937. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-07 23:48:35 UTC
From: Richard Knoppow
Topic: 3925 Message: 3937

----- Original Message -----
From: "Dave Tipton" <dave@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 06, 2010 8:45 PM
Subject: [DrakeRadio] Question on Microphones for TR4

> My first station was a T4X/R4C combo back in 1985. I've
> just decided to rebuild my original station with a few
> liberties, and need advice on what Microphone to buy. The
> rig comes with the connector, but as I recall, a Shure 440
> or a D104 were the mics of choice for this rig. I've
> never been a fan of the way D104's look. They remind me
> too much of a CB mic. So, should I forget about my hangup
> and go with one of those, or try to find a Shure? Other
> than Ebay, are there any Drake centric swap groups?
>
> Thanks,
> Dave, W5DMT
>

Here are some general notes on microphones: The audio quality of transmitters like the Drakes is primarily determined by the sideband filters both as to bandwidth and to responce within the band due to any ripple. Drake uses rather narrow band filters with very steep skirts. These concentrate the transmitted energy in the band of audio frequencies that carries speech intelligence. Much research was done on speech intelligibility by Bell Telephone Laboratories over a long period of time. In fact much of the research in speech and hearing was done at Bell Labs for obvious reasons. One objective was to determine the minimum bandwidth necessary for intellible speech. The Labs found that bandwidth could be severely limited but that if not enough low end was transmitted speech did not sound natural, that was am important consideration for the telephone system since subscribers would not accept unnatural sounding speech. For military purposes the bandwidth can be more severely limited. In fact, some Russian research showed that speech would remain intelligible even when so stringently limited that individual voices could not be recognized. If the energy distribution in speech is measured it will be found that in male speech and in European languages, the bulk of the energy is below about 500 hz but that the contribution to articulation, that is the understandability, of speech of this range is negligible. Intelligence is carried mostly by frequencies between about 1000 hz and

about 3000 hz. The Bell System research found that a bandwidth of about 2500 hz was sufficient to provide speech which had good articulation but remained natural sounding. Their range was from about 250hz to about 2750hz.
Noise has a strong influence on articulation and the effect of bandwidth. Under quiet conditions unfiltered, wide frequency range, speech has the best articulation; under noisy conditions speech wich is band limited and which is filtered to accentuate the range of frequencies which carry intelligence (1000khz to 3000khz) will be much more understandable than wide-range speech. So, for best articulation under noisy conditions its best to shape the speech spectrum to accentuate the mid-highs and attenuate low frequencies. Since the power in speech is mostly concentrated in the lower frequencies attenuating them with regard to the higher ones also has the effect of increasing available power for the intelligibilty range.
Microphones meant for high intelligibility under noisy conditions usually have some sort of frequency discrimination as noted above. Typically, "communication" microphones have limited low and very high frequencies and are built so that they have a rising responce curve between about 500 hz and about 300 hz often with a peak at about 2500 hz. Where the transmission system has no other filtering this can make a substantial difference in the understandability of the speech in noise. Where there is some discrimination already in the system such additional filtering must be used with some care. Typically, in transmitters such as the Drake line, only bandwidth filtering is used. There is some discrimination in the audio amplifier, mainly to attenuate the low end before filtering. Usually, this will help reduce intermodulation distortion but is not enoug to cause problems if a rising responce mic is used.
In fact, the difference in received quality due to microphone characteristics will be less than might be expected from listening to the microphone on a flat amplifier. However, the rising characteristic within the transmitted pass-band will still help to concentrate transmitted energy in the intelligence range especially in the presense of noise.
Amplitude processing:
Many transmitters have some sort of amplitude processing; either compressors, peak limiters, or peak clippers. All of these are for increasing the level of the average power level in speech in comparison to the peak level. Most transmission systems are peak limited, even digital ones. Because, in normal speech, the ratio of peak to average is very high the power available to carry intelligence is quite limited unless the speech waveform is

modified so that the ratio is increased. Probably the most effective means of processing for the purpose of increasing the intelligibility in the presense of noise is peak clipping. This must be done with the aid of spectrum shaping. The simplest method is to put the speech through a differentiator, clip it, and then put it through an integrator. While the terms differentiator and integrator suggest something elaborate they are in fact only simple 6db/octave RC or LC filters, high pass before clipping and low pass after clipping. In research done in the late 1940's J.C. Licklidder found that _infinite_ clipping could be used without destroying the intelligibility of speech, provided that the speech was processed as above. Under noisy conditions the clipped speech had better intelligibility than unprocessed speech but not under quiet conditions although the loss of intelligibility there was not severe. For typical ham transmitting conditions about 6db of clipping is sufficient and generally will not sound bad. Compressors and peak limiters can be used to maintain the clipping point constant with variations in level at the microphone but are less effective in raising _intelligbility_ although they may raise average power. So, the ideal microphone for use where there will be noise at the receiving end is one with some rise between about 500hz and about 3000hz. Rise further up will not hurt anything but is beyond the transmitted bandwidth of Drake, Collins, or most other filter type SSB transmitters. Such a response is not as natural sounding as a mic which has relatively flat response in this range.
A final note: Intelligibility in the context being used here referrs to tests of the ability of a listener to recognize words or sometimes sylables under controlled conditions. This is directly related to the success of a speech communication system. There is copious literature on speech intelligibility, processing, etc. Good starting sources are:
The Bell System Technical Journal
The Bell Laboratories Record
The Journal of the Acoustical Society of America
and a number of journals dedicated to speech and hearing research.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3938. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 02:01:26 UTC
From: Kris Merschrod
Topic: 3925 Message: 3938

Great discussion of voice and quality Richard.
Thank you,
Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

3939. "TR4C. it outperforms my R4C, slightly" ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 02:21:28 UTC
From: Kris Merschrod
Topic: 3936 Message: 3939

Daniel makes an interesting declaration that may be on the mark with the rigs that he has and can listen to side by side. That being said, I find that on SSB and also AM the R-4C with its variable band width provides more listening pleasure and also reduces interference. Even in CW mode, the band width makes for clearer sounding signals. Filterwise, except for the narrower 250Hz in the R4-C, there does not seem to be any difference.

Perhaps there isn't any difference in sensitivity between my rigs or, perhaps, I have not done serious weak signal work to really hear the difference.

Kris (KM2KM)

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net/KA2OIG.htm

[Non-text portions of this message have been removed]

3940. Re: "TR4C. it outperforms my R4C, slightly" ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 03:21:01 UTC
From: arsnf7z
Topic: 3936 Message: 3940

perhaps I should have elaborated. in comparison, I do think my TR4C is slightly more sensitive on most bands. that of course, is not an indictment against the R4C, and could easily be the product of a bad tube or misalignment. I am in the process of aligning each and will gladly report my findings when the playing field is level. the TR4C, even on 20-meters has excellent sensitivity and audio. indeed, I can safely state that the audio on the TR4C is far superior to the poorly-designed output stage on the R4C. I also notice distortion products in the product detector that exceed that of the TR4C.

the TR4C is, however, sub-par on AM and CW, and to my mind, really just a very good SSB transceiver. I bought the R4C after being dissatisfied with my new R4B audio. I remember taking the R4B into the lab to better design a product dectector but ultimately lost interest and purchased the R4C with all filters and noise blanker in 1978.

electrically, my Icom 7000 and 7600 outperforms them all. the point however, is that operating these older Drake components is fun. there is something about the experience that brings great pleasure and brings forth so many memories of cold nights, glowing tubes, and spinning the dial looking for weak CW signals on 40 meters at two in the morning.

NF7Z

3941. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 03:38:56 UTC
From: Jim Shorney
Topic: 3925 Message: 3941

On Wed, 07 Jul 2010 13:21:38 -0400, Kris Merschrod wrote:

>I, too, have used a D-104 w/o amp for close to 30 years with both the TR-4 and TX-4s

An old-timer trick for the D-104 without amp is to place a 470K or higher resistor in series with the mic element to mellow out the sound a little more. The D-104 element likes to see a very high impedance load, and it has enough output to drive most rigs with the additional resistance. Too low of a load impedance is what produces the "tinny" sound that some complain of. Info can be Googled.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3942. Re: [DrakeRadio] Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 03:47:36 UTC
From: Jim Shorney
Topic: 3928 Message: 3942

On Wed, 7 Jul 2010 00:44:14 -0700, Joe wrote:

>That brings up another question....on the B lines.....Is there a Heil
>replacement element that can be installed in an unamplified D104, that would
>be good for general ragchewing AND DX work?

Can't answer that one, I'm not into the Heil stuff. I have way too much fun
experimenting with classic vintage mics! :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3943. RE: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 03:51:40 UTC
From: Dave Tipton, W5DMT
Topic: 3925 Message: 3943

Well gang, I appreciate all of your inputs and one of you even sold me a Shure for a very reasonable price. (About half of what I've seen them on Ebay.) I'm surprised no one has offered to sell me a D104, but alas, there is always next hamfest. I should have the rig in my hands by end of week, beginning of next week and I'll let ya know where it goes from there. If it doesn't arrive til Monday, then I'll be in Chicago for a few weeks on Business and won't get to play til the weekend.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow
Sent: Wednesday, July 07, 2010 6:49 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Question on Microphones for TR4

----- Original Message -----
From: "Dave Tipton" <dave@... <mailto:dave%40w5dmt.com> >
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Tuesday, July 06, 2010 8:45 PM
Subject: [DrakeRadio] Question on Microphones for TR4

> My first station was a T4X/R4C combo back in 1985. I've
> just decided to rebuild my original station with a few
> liberties, and need advice on what Microphone to buy. The
> rig comes with the connector, but as I recall, a Shure 440
> or a D104 were the mics of choice for this rig. I've
> never been a fan of the way D104's look. They remind me
> too much of a CB mic. So, should I forget about my hangup
> and go with one of those, or try to find a Shure? Other
> than Ebay, are there any Drake centric swap groups?
>
> Thanks,
> Dave, W5DMT
>

Here are some general notes on microphones: The audio quality of transmitters like the Drakes is primarily determined by the sideband filters both as to bandwidth and to responce within the band due to any ripple. Drake uses rather narrow band filters with very steep skirts. These concentrate the transmitted energy in the band of audio frequencies that carries speech intelligence. Much research was done on speech intelligibility by Bell Telephone Laboratories over a long period of time. In fact much of the research in speech and hearing was done at Bell Labs for obvious reasons. One objective was to determine the minimum bandwidth necessary for intellible speech. The Labs found that bandwidth could be severely limited but that if not

enough low end was transmitted speech did not sound natural, that was am important consideration for the telephone system since subscribers would not accept unnatural sounding speech. For military purposes the bandwidth can be more severely limited. In fact, some Russian research showed that speech would remain intelligible even when so stringently limited that individual voices could not be recognized.
If the energy distribution in speech is measured it will be found that in male speech and in European languages, the bulk of the energy is below about 500 hz but that the contribution to articulation, that is the understandability, of speech of this range is negligible. Intelligence is carried mostly by frequencies between about 1000 hz and about 3000 hz. The Bell System research found that a bandwidth of about 2500 hz was sufficient to provide speech which had good articulation but remained natural sounding. Their range was from about 250hz to about 2750hz.
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Microphones meant for high intelligibility under noisy conditions usually have some sort of frequency discrimination as noted above. Typically, "communication" microphones have limited low and very high frequencies and are built so that they have a rising responce curve between about 500 hz and about 300 hz often with a peak at about 2500 hz. Where the transmission system has no other filtering this can make a substantial difference in the understandability of the speech in noise. Where there is some discrimination already in the system such additional filtering must be used with some care. Typically, in transmitters such as the Drake line, only bandwidth filtering is used. There is some discrimination in the audio amplifier, mainly to attenuate the low end before filtering. Usually, this will help reduce intermodulation distortion but is not enoug to cause problems if a rising responce mic is used.
In fact, the difference in received quality due to microphone characteristics will be less than might be expected from listening to the microphone on a flat

amplifier. However, the rising characteristic within the transmitted pass-band will still help to concentrate transmitted energy in the intelligence range especially in the presense of noise.
Amplitude processing:
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So, the ideal microphone for use where there will be noise at the receiving end is one with some rise between about 500hz and about 3000hz. Rise further up will not hurt anything but is beyond the transmitted bandwidth of Drake, Collins, or most other filter type SSB transmitters. Such a response is not as natural sounding as a mic which has relatively flat response in this range.
A final note: Intelligibility in the context being used here referrs to tests of the ability of a listener to recognize words or sometimes sylables under controlled conditions. This is directly related to the success of a speech communication system. There is copious literature on speech intelligibility, processing, etc. Good starting sources are:
The Bell System Technical Journal

The Bell Laboratories Record
The Journal of the Acoustical Society of America
and a number of journals dedicated to speech and hearing
research.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@... <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

3944. Re: [DrakeRadio] Re: "TR4C. it outperforms my R4C, slightly" ??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 03:53:04 UTC
From: Jim Shorney
Topic: 3936 Message: 3944

On Thu, 08 Jul 2010 03:21:01 -0000, arsnf7z wrote:

> I can safely state that the audio on the TR4C is far superior to the poorly-designed output stage on the R4C. I also notice distortion products in the product detector that exceed that of the TR4C.

Have you looked at the Sherwood mods for the R-4C? This is all stuff you can build yourself.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3945. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 04:59:32 UTC
From: Richard Knoppow
Topic: 3925 Message: 3945

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, July 07, 2010 8:38 PM
Subject: Re: [DrakeRadio] Question on Microphones for TR4

> On Wed, 07 Jul 2010 13:21:38 -0400, Kris Merschrod wrote:
>
>>I, too, have used a D-104 w/o amp for close to 30 years
>>with both the TR-4 and TX-4s
>
> An old-timer trick for the D-104 without amp is to place a
> 470K or higher
> resistor in series with the mic element to mellow out the
> sound a little more.
> The D-104 element likes to see a very high impedance load,
> and it has enough
> output to drive most rigs with the additional resistance.
> Too low of a load
> impedance is what produces the "tinny" sound that some
> complain of. Info can be
> Googled.
>
> 73
>
> -Jim
>

Astatic designed the D-104 to have a rising frequency response. I've never seen a chart of it so I don't know exactly what it does. For a time, when the D-104 was relatively new, Astatic offered a flat responce model as well as the rising responce model but it would seem most sales were of the latter.
Crystal mic impedance looks like a capacitance so its sensive to load resistance. It becomes a series RC circuit and the lower the load resistance the more the low end tends to roll off. By putting a fairly high value resistor in series with the mic the low end is brought up at the price of somewhat lower overall level. Since the output of the D-104 is _very_ high it can stand the modest loss of level.
The response of a crystal mic depends partly on the value of the crystal as a capacitor, partly on the mechanical circuit, that is the diaphragm and its coupling to the crystal. This can be made resonant at some point to raise the response where the designer wants it. Also, there is the

acoustical response effect due to diffraction around the case. The D-104 has a relatively large case so it has a diffraction rise beginning at a fairly low frequency, probably around 2k. This will also make it somewhat directional at higher frequencies. Both of these characteristics are desirable for its usual application.
BTW, the D-104 appears to have been the first crystal microphone on the market, c. 1934. The early ones were mounted in a ring mount with springs a'la the common carbon microphones of the time. The very high output of crystal microphones and phonograph pickups is one reason they became so popular: they did not need much amplification and amplifiers were expensive then. This is also the reason carbon microphones were so widely used and were standard in the telephone industry until pretty recently. Actually a carbon microphone _is_ an amplifier, modulating an external power source to produce an output.
These days, with the low cost of amplfication and ease of providing for extremely high load impedances, electret microphones have replaced all other types in nearly all low cost applications. An electret is a sort of permanently charged condenser mic, the equivalent in a capacitor of a permanent magnet, and, because of their mechanical simplicity can have very good audio characteristics. Because they depend on an extenal amplifier they do require some power but very little, less than a carbon microphone would need for the same output level.
My impression of Astatic over the years is that they made high quality products.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3946. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 05:16:57 UTC
From: Richard Knoppow
Topic: 3925 Message: 3946

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, July 07, 2010 8:38 PM
Subject: Re: [DrakeRadio] Question on Microphones for TR4

> On Wed, 07 Jul 2010 13:21:38 -0400, Kris Merschrod wrote:
>
>>I, too, have used a D-104 w/o amp for close to 30 years
>>with both the TR-4 and TX-4s
>
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> 470K or higher
> resistor in series with the mic element to mellow out the
> sound a little more.
> The D-104 element likes to see a very high impedance load,
> and it has enough
> output to drive most rigs with the additional resistance.
> Too low of a load
> impedance is what produces the "tinny" sound that some
> complain of. Info can be
> Googled.
>
> 73
>
> -Jim
>
It appears that Astatic changed something in the design
of their crystal mics sometime between about 1947 and about
1953. A 1947 catalogue sheet describes the D-104 as having a
"spring mounted Graphoil crystal element" while the later
catalogue says it is a "Metalseal" element. The same
Metalseal element is used in some other Astatic mics of the
latter date. Crystal elements are vulnerable to moisture so
are sealed in various ways to protect them. Most of
Astatic's elements are based on patents issued to the Brush
Development Company, which itself made crystal mics and
headphones. I don't know if either Graphoil or Metalseal are
Brush or Astatic patents, both companies held several. Its
also possible that it was just a change in name but I rather
think it was an actual change in design.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

3947. Re: [DrakeRadio] Want a couple

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 19:23:27 UTC
From: g4jss@tiscali.co.uk
Topic: 3930 Message: 3947

Craig/Bill

Thanks for info. Been in touch with Charlie/K3ICH and he can supply.

Regards

Vic

G4JSS

[Non-text portions of this message have been removed]

3948. Free to UK owners... Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 19:27:24 UTC
From: mike
Topic: 3948 Message: 3948

I wanted to replace the faded blue filters on my R-4B, & found a UK supplier of the proper filter material, but the minimum quantity was 1m - enough for many dozens of sets.

Unfortunately I only have the one, so if anybody else would like to renew their filters all you have to do is send me a stamped, addressed envelope, preferably with a piece of card inside, to prevent creasing.

This is UK only, I'm afraid. If the envelope doesn't have UK stamps on it then our dear PO won't accept it.

Email me & I'll email back my address.

73,
Mike
M0MLM

3949. Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 19:47:26 UTC
From: jb
Topic: 3928 Message: 3949

I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.

By several counts there are other elements out there that do the job much cheaper and just as well, or better.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> That brings up another question....on the B lines.....Is there a Heil
> replacement element that can be installed in an unamplified D104, that would
> be good for general ragchewing AND DX work?
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

3950. RE: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 20:21:46 UTC
From: Jim Chaggaris
Topic: 3928 Message: 3950

Heil does offer a D-104 upgrade kit.

I installed one a couple of years ago. Works great.

http://www.heilsound.com/amateur/products/hc104/index.htm

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of jb
Sent: Thursday, July 08, 2010 2:47 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines

I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.

By several counts there are other elements out there that do the job much cheaper and just as well, or better.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , Joe <WA6RKN@...> wrote:

>
> That brings up another question....on the B lines.....Is there a Heil
> replacement element that can be installed in an unamplified D104, that
would
> be good for general ragchewing AND DX work?
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

[Non-text portions of this message have been removed]

3951. 4CFrontPanels. com ... still in business?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 22:28:11 UTC
From: arsnf7z
Topic: 3951 Message: 3951

I've sent numerous inquiries to Tony without any response. does anyone know if he is still making panels? has anyone purchased a panel from him recently? I was really hoping to buy a new RV4C panel to replace one that I have that is dented. I've been emailing for two months now without any reply and I am getting worried!

73's

NF7Z, daniel

3952. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 23:24:23 UTC
From: Joe
Topic: 3928 Message: 3952

Thanks Jim...I ordered one today! Price was right...$70.00 plus shipping.

Joe - WA6RKN

----- Original Message -----
From: "Jim Chaggaris" <jimc@...>
Subject: RE: [DrakeRadio] Re: Question on a Microphone for the B Lines

> Heil does offer a D-104 upgrade kit.
> http://www.heilsound.com/amateur/products/hc104/index.htm

3953. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-08 23:42:31 UTC
From: Mike
Topic: 3928 Message: 3953

I picked up a Heil "HC 104" D 104 conversion kit at Orlando in 2005.
It has an HC-5 element with mounting foam, pad, and a transformer.
So far I haven't used it. The old mic just won't die!

Mike AA8W

----- Original Message -----
From: jb
To: DrakeRadio@yahoogroups.com
Sent: Thursday, July 08, 2010 3:47 PM
Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines

I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.

By several counts there are other elements out there that do the job much cheaper and just as well, or better.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> That brings up another question....on the B lines.....Is there a Heil
> replacement element that can be installed in an unamplified D104, that would
> be good for general ragchewing AND DX work?
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>

[Non-text portions of this message have been removed]

3954. Re: [DrakeRadio] Question on Microphones for TR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 02:12:02 UTC
From: Jim Shorney
Topic: 3925 Message: 3954

On Wed, 7 Jul 2010 21:59:32 -0700, Richard Knoppow wrote:

>Astatic designed the D-104 to have a rising frequency
>response. I've never seen a chart of it so I don't know
>exactly what it does.

Thanks for the excellent disstertation. We're going to start calling you
"professor". :)

Response graph of the (amp;ifie
D-104:

http://www.bellscb.com/products/microphones/astatic/base_mics/ASTATIC_D104_Specs
.html

Lots of D-104 info:

http://www.qsl.net/wa2mzf/d104.html

A high impedance FET buffer amp with discussion on why it was used:

http://members.cox.net/n4jk/d104.htm

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

3955. Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 17:14:13 UTC
From: jb
Topic: 3928 Message: 3955

Mike, please let us know how you like it. I have seen NOS elements for the d-104 on e-bay from time to time. Since your original still works it would be interesting to compare the two.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike" <aa8w@...> wrote:
>
> I picked up a Heil "HC 104" D 104 conversion kit at Orlando in 2005.
> It has an HC-5 element with mounting foam, pad, and a transformer.
> So far I haven't used it. The old mic just won't die!
>
> Mike AA8W
>
>
> ----- Original Message -----
> From: jb
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, July 08, 2010 3:47 PM
> Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines
>
>
>
> I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.
>
> By several counts there are other elements out there that do the job much cheaper and just as well, or better.
>
> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@> wrote:
> >
> > That brings up another question....on the B lines.....Is there a Heil
> > replacement element that can be installed in an unamplified D104, that would
> > be good for general ragchewing AND DX work?
> >
> > Joe Wolfe

> > WA6RKN
> > Reno, Nevada
> >
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>
> [Non-text portions of this message have been removed]
>

3956. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 17:33:21 UTC
From: Richard Knoppow
Topic: 3928 Message: 3956

----- Original Message -----
From: "jb" <xjjb4x4@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, July 09, 2010 10:14 AM
Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines

> Mike, please let us know how you like it. I have seen NOS
> elements for the d-104 on e-bay from time to time. Since
> your original still works it would be interesting to
> compare the two.
>
> God bless
> 73
> jb
> kg6biw

It would be interesting to know how many NOS D-104 elements work. Rochelle salt crystal elements are sensitive to both humidity and high temperatures. Commercial units were sealed in various ways to prevent moisture from affecting them. The salt is delequescent, meaning that it will absorb moisture and go into solution. Also, it becomes less active as the temperature goes up being nearly inactive at about 100F and will be permenantly damaged at about 113F. These are temperatures which are common in some areas (I think the East coast is getting them now). Its pretty common for crystal microphones, headphones, phono pickups, etc, to be inactive due to leaks in the sealing or to exposure to high temperatures. That applies to a packaged replacement part so that the chance of such a part working will depend on how well the package is sealed and its history.
Crystal elements were replaced with piezeoelectric ceramics beginning in the late 1940s, the D-104 was available with either. The ceramics are much less vulnerable to moisture and temperature but have a much lower output level. One feature of the D-104 was its very high output level, rated in the old literature as 45db below one volt per bar (by bar is meant micro-bar). The ceramic version, the D-104C, was rated some ten db below this. However, its much more likely that a ceramic mic will still be working.

--
Richard Knoppow
Los Angeles
WB6KBL

dickburk@...

3957. regarding T4XC output ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 19:57:37 UTC
From: arsnf7z
Topic: 3957 Message: 3957

I noticed that I am only getting about 100 watts out on 75 meters, where I seem to remember getting closer to 150 watts output. the manual isn't clear what to expect. observations?

second question. I've also noticed that in CW, after keying has ended but the VOX relay is still enabled, there is still 100ma or so plate current indicated. just curious, and can't remember if this is usual or if something has changed. why the plate current after keying?

I've been bouncing around between the T4XC and TR4C and tend to get the numbers confused. the TR4C outputs 200 watts or so.

73's

NF7Z, daniel

3958. Re: [DrakeRadio] regarding T4XC output ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 20:10:53 UTC
From: Garey Barrell
Topic: 3957 Message: 3958

Daniel -

Yes, 100W output on 75M is low. 130 to 150 is more typical with finals
in good condition.

When the relay drops out, whether SSB VOX or CW semi-breakin operation,
the Final BIAS current will show on the meter. It should be 70 mA. If
it is reading 100 mA, the BIAS needs to be readjusted to return it to
70. Excessive BIAS current will lead to final tube degradation and
reduced output, so may account for your reading.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> I noticed that I am only getting about 100 watts out on 75 meters, where I seem to
remember getting closer to 150 watts output. the manual isn't clear what to expect.
observations?
>
> second question. I've also noticed that in CW, after keying has ended but the VOX relay
is still enabled, there is still 100ma or so plate current indicated. just curious, and
can't remember if this is usual or if something has changed. why the plate current after
keying?
>
> I've been bouncing around between the T4XC and TR4C and tend to get the numbers confused.
the TR4C outputs 200 watts or so.
>
> 73's
>
> NF7Z, daniel
>
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3959. Re: [DrakeRadio] regarding T4XC output ... Modification

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 20:20:47 UTC
From: Garey Barrell
Topic: 3957 Message: 3959

Garey Barrell wrote:
> Daniel -
>
> Yes, 100W output on 75M is low. 130 to 150 is more typical with finals
> in good condition.
>
> _UNTIL_ the relay drops out, whether SSB VOX or CW semi-breakin operation,
> the Final BIAS current will show on the meter. It should be 70 mA. If
> it is reading 100 mA, the BIAS needs to be readjusted to return it to
> 70. Excessive BIAS current will lead to final tube degradation and
> reduced output, so may account for your reading.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> arsnf7z wrote:
>
>> I noticed that I am only getting about 100 watts out on 75 meters, where I seem to remember getting closer to 150 watts output. the manual isn't clear what to expect. observations?
>>
>> second question. I've also noticed that in CW, after keying has ended but the VOX relay is still enabled, there is still 100ma or so plate current indicated. just curious, and can't remember if this is usual or if something has changed. why the plate current after keying?
>>
>> I've been bouncing around between the T4XC and TR4C and tend to get the numbers confused. the TR4C outputs 200 watts or so.
>>
>> 73's
>>
>> NF7Z, daniel
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3960. Re: regarding T4XC output ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 20:18:19 UTC
From: arsnf7z
Topic: 3957 Message: 3960

Gary,

the current I show is about ~100ma when not keying, but the VOX relay has NOT dropped out yet. is that what you are saying? I'll check, but I do think it was higher than the BIAS point I set. not by much though, if at all. yes, I typically set it at 70ma and have to reset it after using the AC-4 with the TR4C.

the odd thing, is that I hear a ~650hz tone in the R4C (sidetone off) when I use the T4XC in 'rcv' and 'xmit' tuning mode. it only occurs when I have the INJ cable attached ... and it exists on all bands, off frequency. I don't have my schematics, but it almost appears to be an audio loop and not RF. this tone, exists at a lower amplitude until the VOX relay finally drops.

thanks for your assistance. I am up in Canada, on our sailboat, playing with Drake radios during the heat of the day!

NF7Z

3961. Re: [DrakeRadio] Re: regarding T4XC output ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-09 20:46:24 UTC
From: Garey Barrell
Topic: 3957 Message: 3961

Daniel -

Yes, I mis-spoke in my first message. The BIAS will show UNTIL the relay drops out, at which time the PLATE meter should read zero.

The TR-4C should be 100 mA BIAS current.

I'm not sure about the tone. You may be hearing the Carrier Oscillator that is offset about 800 Hz in CW. If the SIDETONE is present (at reduced volume) when the key is UP, then the C107 electrolytic is probably dried out.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> Gary,
>
> the current I show is about ~100ma when not keying, but the VOX relay has NOT dropped out yet. is that what you are saying? I'll check, but I do think it was higher than the BIAS point I set. not by much though, if at all. yes, I typically set it at 70ma and have to reset it after using the AC-4 with the TR4C.
>
> the odd thing, is that I hear a ~650hz tone in the R4C (sidetone off) when I use the T4XC in 'rcv' and 'xmit' tuning mode. it only occurs when I have the INJ cable attached ... and it exists on all bands, off frequency. I don't have my schematics, but it almost appears to be an audio loop and not RF. this tone, exists at a lower amplitude until the VOX relay finally drops.
>
> thanks for your assistance. I am up in Canada, on our sailboat, playing with Drake radios during the heat of the day!
>
> NF7Z
>
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>
> ------------------------------------
>
> Yahoo! Groups Links
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>

>

3962. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-10 02:56:42 UTC
From: Mike
Topic: 3928 Message: 3962

Hi jb,
I used the D-104 with the C line until the third baby came along and sold it. (I could get more for the FS-4 today than I got for the whole setup!)
Today I use it with a TR-3/RV-3 with no complaints. Most people can't tell the difference between it and the Shure 444D.
I am sure that the responce curves are different, but these are communication mics, and I can't sing anyway!
Any NOS stock is by definition old, mine just happens to be in good shape. I guess it just depends on the environment it has been in.
The D-104 just happens to be the first mic I saw in the '50's when I got interested in ham radio.
73
Mike AA8W

----- Original Message -----
From: jb
To: DrakeRadio@yahoogroups.com
Sent: Friday, July 09, 2010 1:14 PM
Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines

Mike, please let us know how you like it. I have seen NOS elements for the d-104 on e-bay from time to time. Since your original still works it would be interesting to compare the two.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike" <aa8w@...> wrote:
>
> I picked up a Heil "HC 104" D 104 conversion kit at Orlando in 2005.
> It has an HC-5 element with mounting foam, pad, and a transformer.
> So far I haven't used it. The old mic just won't die!
>
> Mike AA8W
>
>
> ----- Original Message -----
> From: jb
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, July 08, 2010 3:47 PM
> Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines
>
>
>

> I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.
>
> By several counts there are other elements out there that do the job much cheaper and just as well, or better.
>
> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@> wrote:
> >
> > That brings up another question....on the B lines.....Is there a Heil
> > replacement element that can be installed in an unamplified D104, that would
> > be good for general ragchewing AND DX work?
> >
> > Joe Wolfe
> > WA6RKN
> > Reno, Nevada
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

3963. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-10 04:21:20 UTC
From: Richard Knoppow
Topic: 3928 Message: 3963

----- Original Message -----
From: "Mike" <aa8w@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, July 09, 2010 7:56 PM
Subject: Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

> Hi jb,
> I used the D-104 with the C line until the third baby came
> along and sold it. (I could get more for the FS-4 today
> than I got for the whole setup!)
> Today I use it with a TR-3/RV-3 with no complaints. Most
> people can't tell the difference between it and the Shure
> 444D.
> I am sure that the responce curves are different, but
> these are communication mics, and I can't sing anyway!
> Any NOS stock is by definition old, mine just happens to
> be in good shape. I guess it just depends on the
> environment it has been in.
> The D-104 just happens to be the first mic I saw in the
> '50's when I got interested in ham radio.
> 73
> Mike AA8W
>

Actually the response curves for the two are very similar. Both have a rising curve from about 1khz to about 3khz where it peaks about 12db above the 1khz level, then it rolls off very steeply. On the low end the 444 is fairly flat from 1khz to about 300hz and then rolls off very quickly the D-104 slopes off more gradually below 1 khz and does not cut off sharply although it has very low response below about 200 hz. I am not surprized that they sound pretty much alike.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3964. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-11 20:40:10 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 3964

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

3965. TR4C filter cap; shame on Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 14:49:14 UTC
From: Dick KF4NS
Topic: 3965 Message: 3965

Ok guys, I made my decision to just go ahead and replace the can with 4 individual caps.

Just for the heck of it, I cleared the way underneath and lifted the unsoldered tabs along the chassis edge with a screwdriver. I then decided to try a wiggle of the can to see if it may be possible to just rock it until the two soldered tabs break.

WHOA! What a shock! (not literally) The can just lifted out. What had appeared to be huge globs of solder on the other two tabs was just that. This rig was never worked on before so some tech in 1974 failed to check his work, probably on a Monday.

Sure simplified my work though. Now all I have to do is solder my new caps to the wires and heat shrink them. I still may gut the can and put the new caps in there just for looks.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

3966. Re: [DrakeRadio] TR4C filter cap; shame on Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 16:32:19 UTC
From: Richard Knoppow
Topic: 3965 Message: 3966

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>;
<drake@...>; "Drake list at zerobeat"
<drakelist@...>; "Al Bernard NI4Q" <ni4q@...>
Sent: Monday, July 12, 2010 7:49 AM
Subject: [DrakeRadio] TR4C filter cap; shame on Drake

> Ok guys, I made my decision to just go ahead and replace
> the can with
> 4 individual caps.
>
> Just for the heck of it, I cleared the way underneath and
> lifted the
> unsoldered tabs along the chassis edge with a screwdriver.
> I then
> decided to try a wiggle of the can to see if it may be
> possible to
> just rock it until the two soldered tabs break.
>
> WHOA! What a shock! (not literally) The can just lifted
> out. What had
> appeared to be huge globs of solder on the other two tabs
> was just
> that. This rig was never worked on before so some tech in
> 1974 failed
> to check his work, probably on a Monday.
>
> Sure simplified my work though. Now all I have to do is
> solder my new
> caps to the wires and heat shrink them. I still may gut
> the can and
> put the new caps in there just for looks.
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
Be interesting to know if the old cap is still good and
was just not grounded. Its possible that the tabs made a
good enough connection for a time but not after some
corrosion got started.
BTW, I found a never soldered connection in my R4B,
don't remember what it was.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3967. Re: [Drakelist] TR4C filter cap; shame on Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 16:44:52 UTC
From: Richard Knoppow
Topic: 3967 Message: 3967

----- Original Message -----
From: <k9sqg@...>
To: <kf4nsradio@...>; <DrakeRadio@yahoogroups.com>;
<drake@...>; <drakelist@...>;
<ni4q@...>
Sent: Monday, July 12, 2010 8:08 AM
Subject: Re: [Drakelist] TR4C filter cap; shame on Drake

Dick,

Unsoldered connections, on wires or tabs, have been noted in
isolated cases in Drake gear. However, due to wire wrap and
crimp, many of these connections have enabled perfect
performance even after 30 or more years of being like that.
So what you are seeing is likely the exception rather than
the rule.

73,

Evan, K9SQG

In my reply to this message in the "other" Drake list I
mentioned having found an unsoldered connection in my R4B. I
don't remember where it was but the radio worked.
I was taught long ago to wire so that the solder was
not relied on to make the connection. However its often not
possible to make proper wrapped connections when making
repairs. I suspect in this case the tabs were making good
enough contact for the filter caps to work until the
connection surfaces got a bit corroded. Perhaps the original
soldering iron did not have enough mass; this is essentially
sweat soldering and the chassis will dissipate the heat
quickly if the iron is not massive enough. Mass is more
important than temperature for this. A hot but small iron
will be cooled so quickly it will have the described result:
a blob of solder on the connection but no actual solder
joint.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3968. TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 18:15:44 UTC
From: w1kilofoxtrot
Topic: 3968 Message: 3968

I've finally gotten a TR-4C (to replace the TR-3's I had)!

The first thing I had to do was fix a low audio problem advertised when I bought it. The RF gain was counter-clockwise. First problem solved!

The Upper Sideband crystal filter may be shot, since I can't make the 'noise' even between upper and lower. I'd like to test it on my Network Analyzer, but I need to know the filter impedance. I'm guessing it's around 500 ohms, but it would help if some one (Garey?) might know off the top of their head. I didn't find anything in the archives.

And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6 MHz crystals...

73,
Steve
W1KF

3969. Re: [DrakeRadio] TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 19:09:05 UTC
From: Garey Barrell
Topic: 3968 Message: 3969

Steve -

There seems to be some some confusion over the impedance of the TR-4 filters. Some say 500 ohms, others say 1000 ohms. The R-4C and 7 Line filters are easy, they're 50 ohms.

I've never actually swept one, but I'm sticking with 1000 ohms until someone convinces me otherwise! :-) Part of the confusion may be that the earlier "soupcan" filter was I believe, 500 ohms.

Let us know what your measurements show!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
> I've finally gotten a TR-4C (to replace the TR-3's I had)!
>
> The first thing I had to do was fix a low audio problem advertised when I bought it. The RF gain was counter-clockwise. First problem solved!
>
> The Upper Sideband crystal filter may be shot, since I can't make the 'noise' even between upper and lower. I'd like to test it on my Network Analyzer, but I need to know the filter impedance. I'm guessing it's around 500 ohms, but it would help if some one (Garey?) might know off the top of their head. I didn't find anything in the archives.
>
> And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6 MHz crystals...
>
> 73,
> Steve
> W1KF
>
>

3970. Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 19:16:53 UTC
From: jb
Topic: 3928 Message: 3970

Interesting Mike, thanks.
I know some like to use different mics between rag chewing and busting thru on DX and contests; the d-104 seems to lean towards the busting thru mode. Was wondering how a different element might change that.

Richard just responded also, stating that there wasn't much difference at all. Good to know.

I have a few mics but only the 444 is wired up yet. Seems to do pretty well with my voice, which I would catagorize as mid range on tone and a bit soft on volume. It get higher and softer when during allergy season. =) Need to play a bit more with these.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Mike" <aa8w@...> wrote:
>
> Hi jb,
> I used the D-104 with the C line until the third baby came along and sold it. (I could get more for the FS-4 today than I got for the whole setup!)
> Today I use it with a TR-3/RV-3 with no complaints. Most people can't tell the difference between it and the Shure 444D.
> I am sure that the responce curves are different, but these are communication mics, and I can't sing anyway!
> Any NOS stock is by definition old, mine just happens to be in good shape. I guess it just depends on the environment it has been in.
> The D-104 just happens to be the first mic I saw in the '50's when I got interested in ham radio.
> 73
> Mike AA8W
>
>
> ----- Original Message -----
> From: jb
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, July 09, 2010 1:14 PM
> Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines
>
>
>
> Mike, please let us know how you like it. I have seen NOS elements for the d-104 on e-bay from time to time. Since your original still works it would be interesting to compare the two.
>

> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, "Mike" <aa8w@> wrote:
> >
> > I picked up a Heil "HC 104" D 104 conversion kit at Orlando in 2005.
> > It has an HC-5 element with mounting foam, pad, and a transformer.
> > So far I haven't used it. The old mic just won't die!
> >
> > Mike AA8W
> >
> >
> > ----- Original Message -----
> > From: jb
> > To: DrakeRadio@yahoogroups.com
> > Sent: Thursday, July 08, 2010 3:47 PM
> > Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines
> >
> >
> >
> > I don't think so, Joe. The only element I remember seeing from Heil for the d-104 was an electret element for the Icom rigs to cater to their mic designs that require a separate power source. The amplified d-104s have become popular for that purpose.
> >
> > By several counts there are other elements out there that do the job much cheaper and just as well, or better.
> >
> > God bless
> > 73
> > jb
> > kg6biw
> >
> > --- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@> wrote:
> > >
> > > That brings up another question....on the B lines.....Is there a Heil
> > > replacement element that can be installed in an unamplified D104, that would
> > > be good for general ragchewing AND DX work?
> > >
> > > Joe Wolfe
> > > WA6RKN
> > > Reno, Nevada
> > >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]

> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

3971. Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 19:39:15 UTC
From: jb
Topic: 3928 Message: 3971

Hi Richard,
Thanks.

Wow! Salt? I would never have thought. No wonder there are replacement elements still out there. They must have made a ton of them, knowing ahead of time how perishable they might be.

Was that common with other crystal elements, other brands? I always imagined someone polishing down all these little quartz crystals like they would in a watch. ...something certainly more substancial than salt.

I got to say, I have gotten quite an education from you, especially in this thread. I had been gleaning info here and there but you really tied things together and explained a lot. Thank you. You must have been a teacher....should have been anyways. Your efforts and experience are greatly appreciated by this thick head. =)

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Mike" <aa8w@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, July 09, 2010 7:56 PM
> Subject: Re: [DrakeRadio] Re: Question on a Microphone for
> the B Lines
>
>
> > Hi jb,
> > I used the D-104 with the C line until the third baby came
> > along and sold it. (I could get more for the FS-4 today
> > than I got for the whole setup!)
> > Today I use it with a TR-3/RV-3 with no complaints. Most
> > people can't tell the difference between it and the Shure
> > 444D.
> > I am sure that the responce curves are different, but
> > these are communication mics, and I can't sing anyway!
> > Any NOS stock is by definition old, mine just happens to
> > be in good shape. I guess it just depends on the
> > environment it has been in.
> > The D-104 just happens to be the first mic I saw in the
> > '50's when I got interested in ham radio.

> > 73
> > Mike AA8W
> >
> Actually the response curves for the two are very
> similar. Both have a rising curve from about 1khz to about
> 3khz where it peaks about 12db above the 1khz level, then it
> rolls off very steeply. On the low end the 444 is fairly
> flat from 1khz to about 300hz and then rolls off very
> quickly the D-104 slopes off more gradually below 1 khz and
> does not cut off sharply although it has very low response
> below about 200 hz. I am not surprized that they sound
> pretty much alike.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3972. Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 19:54:00 UTC
From: jb
Topic: 3928 Message: 3972

Meant to ask but forgot to add: Do you think most of those NOS elements for the d-104 are the ceramic? Were the salt ones sealed that well?

thanks
jb

--- In DrakeRadio@yahoogroups.com, "jb" <xjjb4x4@...> wrote:
>
> Hi Richard,
> Thanks.
>
> Wow! Salt? I would never have thought. No wonder there are replacement elements still out there. They must have made a ton of them, knowing ahead of time how perishable they might be.
>
> Was that common with other crystal elements, other brands? I always imagined someone polishing down all these little quartz crystals like they would in a watch. ...something certainly more substancial than salt.
>
> I got to say, I have gotten quite an education from you, especially in this thread. I had been gleaning info here and there but you really tied things together and explained a lot. Thank you. You must have been a teacher....should have been anyways. Your efforts and experience are greatly appreciated by this thick head. =)
>
> God bless
> 73
> jb
> kg6biw
>
> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@> wrote:
> >
> >
> > ----- Original Message -----
> > From: "Mike" <aa8w@>
> > To: <DrakeRadio@yahoogroups.com>
> > Sent: Friday, July 09, 2010 7:56 PM
> > Subject: Re: [DrakeRadio] Re: Question on a Microphone for
> > the B Lines
> >
> >
> > > Hi jb,
> > > I used the D-104 with the C line until the third baby came
> > > along and sold it. (I could get more for the FS-4 today
> > > than I got for the whole setup!)
> > > Today I use it with a TR-3/RV-3 with no complaints. Most

> > > people can't tell the difference between it and the Shure
> > > 444D.
> > > I am sure that the responce curves are different, but
> > > these are communication mics, and I can't sing anyway!
> > > Any NOS stock is by definition old, mine just happens to
> > > be in good shape. I guess it just depends on the
> > > environment it has been in.
> > > The D-104 just happens to be the first mic I saw in the
> > > '50's when I got interested in ham radio.
> > > 73
> > > Mike AA8W
> > >
> > Actually the response curves for the two are very
> > similar. Both have a rising curve from about 1khz to about
> > 3khz where it peaks about 12db above the 1khz level, then it
> > rolls off very steeply. On the low end the 444 is fairly
> > flat from 1khz to about 300hz and then rolls off very
> > quickly the D-104 slopes off more gradually below 1 khz and
> > does not cut off sharply although it has very low response
> > below about 200 hz. I am not surprized that they sound
> > pretty much alike.
> >
> >
> > --
> > Richard Knoppow
> > Los Angeles
> > WB6KBL
> > dickburk@
> >
>

3973. Re: [DrakeRadio] TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 20:00:12 UTC
From: William Houghton
Topic: 3968 Message: 3973

Steve,

This seems to be a common problem, the audio noise level being significantly different between the "X" and non-x position of the sideband switch making it close to impossible, in my opinion, to get the noise pitch to be close to equal between the two sidebands when you try to adjust the 9MHz osc. I had this same problem with my TR-4C and solved it by using DeOxit on the sideband switch. It took about three applications over a few weeks time before it stayed fixed. In my case this also affected the RF drive in SSB observed with a single tone test as well as the received audio.

Bill

From: w1kilofoxtrot <w1kf@earthlink.net>
To: DrakeRadio@yahoogroups.com
Sent: Mon, July 12, 2010 11:15:44 AM
Subject: [DrakeRadio] TR-4C crystal filter specs?

I've finally gotten a TR-4C (to replace the TR-3's I had)!

The first thing I had to do was fix a low audio problem advertised when I bought it. The RF gain was counter-clockwise. First problem solved!

The Upper Sideband crystal filter may be shot, since I can't make the 'noise' even between upper and lower. I'd like to test it on my Network Analyzer, but I need to know the filter impedance. I'm guessing it's around 500 ohms, but it would help if some one (Garey?) might know off the top of their head. I didn't find anything in the archives.

And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6 MHz crystals...

73,
Steve
W1KF

[Non-text portions of this message have been removed]

3974. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 20:56:49 UTC
From: Richard Knoppow
Topic: 3928 Message: 3974

----- Original Message -----
From: "jb" <xjjb4x4@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 12, 2010 12:54 PM
Subject: [DrakeRadio] Re: Question on a Microphone for the B Lines

> Meant to ask but forgot to add: Do you think most of
> those NOS elements for the d-104 are the ceramic? Were
> the salt ones sealed that well?
>
> thanks
> jb

Its A salt, posassium sodium bitartrate. Crystals can be made from a mixture of sodium carbonate (washing soda) and sodium tartarate (cream of tartar), there are instructions on the web. The material is delequescent, that is, the crystals will absorb moisture from the air and go back into solution. When used in crystal microphones, phono pickups, headphones, and crystal disc cutters, the crystals were used in combinations that increased their mechanical motion. These were of two forms called "benders" and twisters" depending on how they were fastened togeter.
Rochelle salt is very active meaning that the amount of motion produced by a voltage is comparitively great, or that the voltage produced by stressing the crystal is great. The problem is that the crystals are destroyed by being exposed to moisture or to temperatures over about 113F. In order to protect them from moisture the active elements were sealed in various ways. Usually both sides of the crystal were covered with metal foil cemented in place with something the crystal would not absorb. One patent used gelatin. The elements in a couple of Brush headphones I dissected were in what appear to be rubber sleeves but might be plastic. Evidently, the seals were sometimes a bit leaky so that the element would eventually disintegrate when exposed to moisture but the crystals are also vulnerable to high temperatures and to fracturing either from being driven by too high a voltage in the case of headphones or cutters, or by mechanical damage in the case of a phonograph pickup or in any of them by physical impact like being dropped hard. Ceramic materials are much less senstive to moisture and heat but are still sealed. Their main drawback is much lower output but they began to replace crystal pickups and

microphones in the 1950s because they were so much more rugged and because amplification had become cheaper so that the extremely high output of Rochelle salt crystals was less necessary. Crystal phono pickups are also not well suited to microgroove records because they tend to be too stiff making higher tracking pressures necessary with the attendant rapid wear of the record.
I have no idea how well D-104 elements are sealed but, since heat and mechanical shock are still problems even with a perfect moisture seal, its hard to know how many of them are still good. Also, it appears from their advertising that Astatic may have changed the method of constructing the elements at some point around the late 1940's. The earlier ads refer to "Grafoil" and later ones to "Metalseal", perhaps the same thing with a different name but the later one may be different and more effective.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3975. Re: [DrakeRadio] Re: Question on a Microphone for the B Lines

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-12 23:32:15 UTC
From: Richard Knoppow
Topic: 3928 Message: 3975

```
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 12, 2010 1:56 PM
Subject: Re: [DrakeRadio] Re: Question on a Microphone for
the B Lines

>
> ----- Original Message -----
> From: "jb" <xjjb4x4@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, July 12, 2010 12:54 PM
> Subject: [DrakeRadio] Re: Question on a Microphone for the
> B
> Lines
>
OOoops, mis-spelled tartrate a couple of times. Also,
the components needed to make Rochelle salt crystals are
sodium carbonate and _potassium_ bitartrate. The latter is
known as Cream of Tartar, it is also the stuff called
"beeswing" sometimes found in wine.
Crystals are not too hard to grow but I don't know if
they are practical for making microphones.
BTW, Brush crystal headphones were long sold as
high-fidelity phones plus they have a very high impedance
(more than 100K) making them useful for audio bridge
measurements and crystal set radios. I took a couple apart
to see if they were fixable. They aren't. They appear to be
completely assembled by cementing, crystal element cemented
to pads in the case, diaphragm cemented to the case at the
edges and fixed to the actuating rod with what appears to be
bee's wax, and finally the caps cemented to the cases. I
have about eight capsules, ONE of which still works.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

3976. WTB 3.5mhz xtal for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-13 13:12:45 UTC
From: n4sub
Topic: 3976 Message: 3976

Hello to all-I am looking for a 3.5mhz xtal for my SPR4-anyone have one?Thought I would check before going to International Crystal. Also does anyone use an FS4 with their SPR4? I would like to hear from you if you do. Tnx-73--Terry N4SuB

3977. Re: TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-13 14:13:37 UTC
From: w1kilofoxtrot
Topic: 3968 Message: 3977

I've not swept them yet, but someone offered that the terminating resistors hold a clue. The schematic, and radio, have 470 Ohm terminators, so I'm assuming the filters are 500 Ohms, plus or minus.

A previous owner thoughtfully drenched all the switches in some sort of 'cleaner' which converted all the silver surfaces to silver sulfide, conductive, but ugly black. A little light wiping seems to be getting it off...

Little by little...

Steve

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> There seems to be some some confusion over the impedance of the TR-4
> filters. Some say 500 ohms, others say 1000 ohms. The R-4C and 7 Line
> filters are easy, they're 50 ohms.
>
> I've never actually swept one, but I'm sticking with 1000 ohms until
> someone convinces me otherwise! :-) Part of the confusion may be that
> the earlier "soupcan" filter was I believe, 500 ohms.
>
> Let us know what your measurements show!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1kilofoxtrot wrote:
> > I've finally gotten a TR-4C (to replace the TR-3's I had)!
> >
> > The first thing I had to do was fix a low audio problem advertised when I bought it. The RF gain was counter-clockwise. First problem solved!
> >
> > The Upper Sideband crystal filter may be shot, since I can't make the 'noise' even between upper and lower. I'd like to test it on my Network Analyzer, but I need to know the filter impedance. I'm guessing it's around 500 ohms, but it would help if some one (Garey?) might know off the top of their head. I didn't find anything in the archives.
> >
> > And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6 MHz crystals...

> >
> > 73,
> > Steve
> > W1KF
> >
> >
>

3978. Re: TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-13 14:15:09 UTC
From: w1kilofoxtrot
Topic: 3968 Message: 3978

My TR-3s were never 'equal' from upper to lower, but they were fairly close. This one is -way- off. I'll continue testing, and let you all know what I find!

Steve

--- In DrakeRadio@yahoogroups.com, William Houghton <rdrbill@...> wrote:
>
> Steve,
>
> This seems to be a common problem, the audio noise level being significantly
> different between the "X" and non-x position of the sideband switch making
> itÂ close to impossible, in my opinion, to get the noise pitch to be close to
> equal between the two sidebands when you try to adjust the 9MHz osc. I had this
> same problem with my TR-4C and solved it by using DeOxit on the sideband switch.
> It took about three applications over a few weeks time before it stayed fixed.
> In my case this also affected the RF drive in SSB observed with a single tone
> test as well as the received audio.
>
>
> Bill
>
>
>
>
> _____
> From: w1kilofoxtrot <w1kf@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Mon, July 12, 2010 11:15:44 AM
> Subject: [DrakeRadio] TR-4C crystal filter specs?
>
> Â
> I've finally gotten a TR-4C (to replace the TR-3's I had)!
>
> The first thing I had to do was fix a low audio problem advertised when I bought
> it. The RF gain was counter-clockwise. First problem solved!
>
> The Upper Sideband crystal filter may be shot, since I can't make the 'noise'
> even between upper and lower. I'd like to test it on my Network Analyzer, but I
> need to know the filter impedance. I'm guessing it's around 500 ohms, but it
> would help if some one (Garey?) might know off the top of their head. I didn't
> find anything in the archives.
>
> And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6
> MHz crystals...
>

> 73,
> Steve
> W1KF
>
>
>
>
> [Non-text portions of this message have been removed]
>

3979. Re: [DrakeRadio] Re: TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-13 14:57:44 UTC
From: Garey Barrell
Topic: 3968 Message: 3979

Steve -

Well I guess that's why people are afraid to post to the list and reply to the OP only...

I got my numbers backwards on my message. The TR-3 filter(s) [four pole] were 2000 ohms and the TR-4 filters [eight pole] are 500 ohms.

I think I need to just stop replying at all!

73, Garey - K4OAH
Glen Allen, VA

w1kilofoxtrot wrote:
> I've not swept them yet, but someone offered that the terminating resistors hold a clue. The schematic, and radio, have 470 Ohm terminators, so I'm assuming the filters are 500 Ohms, plus or minus.
>
> A previous owner thoughtfully drenched all the switches in some sort of 'cleaner' which converted all the silver surfaces to silver sulfide, conductive, but ugly black. A little light wiping seems to be getting it off...
>
> Little by little...
>
> Steve
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Steve -
>>
>> There seems to be some some confusion over the impedance of the TR-4 filters. Some say 500 ohms, others say 1000 ohms. The R-4C and 7 Line filters are easy, they're 50 ohms.
>>
>> I've never actually swept one, but I'm sticking with 1000 ohms until someone convinces me otherwise! :-) Part of the confusion may be that the earlier "soupcan" filter was I believe, 500 ohms.
>>
>> Let us know what your measurements show!!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>

>>
>> w1kilofoxtrot wrote:
>>
>>> I've finally gotten a TR-4C (to replace the TR-3's I had)!
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>>> The first thing I had to do was fix a low audio problem advertised when I bought it. The RF gain was counter-clockwise. First problem solved!
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>>> The Upper Sideband crystal filter may be shot, since I can't make the 'noise' even between upper and lower. I'd like to test it on my Network Analyzer, but I need to know the filter impedance. I'm guessing it's around 500 ohms, but it would help if some one (Garey?) might know off the top of their head. I didn't find anything in the archives.
>>>
>>> And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6 MHz crystals...
>>>
>>> 73,
>>> Steve
>>> W1KF
>>>

3980. RE: [DrakeRadio] Re: TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-13 15:44:12 UTC
From: Terrell Hamilton
Topic: 3968 Message: 3980

Garey:

Better start
taking that Ginko Biloba,
buddy! That's what I do - I
forget why.

73

Terry

K7WLD

Wenatchee, WA

From:
DrakeRadio@yahoogroups.com
[mailto:DrakeRadio@yahoogroups
.com] On Behalf Of Garey
Barrell
Sent: Tuesday, July 13, 2010
7:58 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re:
TR-4C crystal filter specs?

Steve -

Well I guess that's why people
are afraid to post to the list
and reply
to the OP only...

I got my numbers backwards on
my message. The TR-3 filter(s)
[four
pole] were 2000 ohms and the
TR-4 filters [eight pole] are
500 ohms.

I think I need to just stop
replying at all!

73, Garey - K4OAH
Glen Allen, VA

w1kilofoxtrot wrote:
> I've not swept them yet, but

someone offered that the terminating resistors hold a clue. The schematic, and radio, have 470 Ohm terminators, so I'm assuming the filters are 500 Ohms, plus or minus.
>
> A previous owner thoughtfully drenched all the switches in some sort of 'cleaner' which converted all the silver surfaces to silver sulfide, conductive, but ugly black. A little light wiping seems to be getting it off...
>
> Little by little...
>
> Steve
>
> --- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , Garey Barrell<k4oah@...> wrote:
>
>> Steve -
>>
>> There seems to be some some confusion over the impedance of the TR-4
>> filters. Some say 500 ohms, others say 1000 ohms. The R-4C and 7 Line
>> filters are easy, they're 50 ohms.
>>
>> I've never actually swept one, but I'm sticking with 1000 ohms until
>> someone convinces me otherwise! :-) Part of the confusion may be that
>> the earlier "soupcan" filter was I believe, 500 ohms.
>>
>> Let us know what your measurements show!!

>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line&
TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> w1kilofoxtrot wrote:
>>
>>> I've finally gotten a
TR-4C (to replace the TR-3's I
had)!
>>>
>>> The first thing I had to
do was fix a low audio problem
advertised when I bought it.
The RF gain was
counter-clockwise. First
problem solved!
>>>
>>> The Upper Sideband crystal
filter may be shot, since I
can't make the 'noise' even
between upper and lower. I'd
like to test it on my Network
Analyzer, but I need to know
the filter impedance. I'm
guessing it's around 500 ohms,
but it would help if some one
(Garey?) might know off the
top of their head. I didn't
find anything in the archives.
>>>
>>> And, I think I'd like to
populate the 10M crystals, so
I need 42.5 and a 43.6 MHz
crystals...
>>>
>>> 73,
>>> Steve
>>> W1KF
>>>

[Non-text portions of this message have been removed]

3981. WAS: Question on a Microphone for the B Lines, NOW: Shure Mic Element

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-14 00:10:03 UTC
From: jb
Topic: 3928 Message: 3981

Also, the components needed to make Rochelle salt crystals are
sodium carbonate and _potassium_ bitartrate. The latter is
known as Cream of Tartar,.....

OK, Richard. Now I am suspecting that you're pulling my leg. =)

Very interesting. One of the reasons I got into boatanchors and related
items is a fascination for how things evolved.....and an incurable
desire to take things apart tho see how they tick.

Which brings up another question: I had picked up an old Shure 51 and
the element was in pieces.....no, it was that way before I took it
apart. =) From what I can tell, it appears to be a magnetic element.
Haven't had any luck finding a replacement. What would you suggest?
Can these still be found? Cosmetically this is in real nice shape,
screen and label as well. Would really like to be able to use it with
a Drake or maybe my Kenwood 250.

thanks

God bless
73
jb
kg6biw

[Non-text portions of this message have been removed]

3982. Re: [DrakeRadio] TR-4C crystal filter specs?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-14 12:58:10 UTC
From: Dick KF4NS
Topic: 3968 Message: 3982

Steve et al,
FWIW, I found that the easiest way to set the USB/LSB balance, if you dare call it that, is to tune in a 40M broadcast station with the mode switch set to SSB and adjust C130 for the best balance while switching the sideband switch back and forth. If the filters are a bit off, setting C130 with a freq counter is of little use.
Good luck and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----------Original Message----------
From: w1kilofoxtrot <w1kf@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, July 12, 2010 11:15:44 AM
Subject: [DrakeRadio] TR-4C crystal filter specs?

I've finally gotten a TR-4C (to replace the TR-3's I had)!

The first thing I had to do was fix a low audio problem advertised when I bought
it. The RF gain was counter-clockwise. First problem solved!

The Upper Sideband crystal filter may be shot, since I can't make the 'noise'
even between upper and lower. I'd like to test it on my Network Analyzer, but I
need to know the filter impedance. I'm guessing it's around 500 ohms, but it
would help if some one (Garey?) might know off the top of their head. I didn't
find anything in the archives.

And, I think I'd like to populate the 10M crystals, so I need 42.5 and a 43.6
MHz crystals...

73,
Steve
W1KF

3983. Re: [DrakeRadio] WAS: Question on a Microphone for the B Lines, NOW: Shure Mic Element

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 09:30:14 UTC
From: Richard Knoppow
Topic: 3928 Message: 3983

----- Original Message -----
From: "jb" <xjjb4x4@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 13, 2010 5:10 PM
Subject: [DrakeRadio] WAS: Question on a Microphone for the
B Lines, NOW: Shure Mic Element

>
>
>
>
>
> Also, the components needed to make Rochelle salt crystals
> are
> sodium carbonate and _potassium_ bitartrate. The latter is
> known as Cream of Tartar,.....
>
> OK, Richard. Now I am suspecting that you're pulling my
> leg. =)
>
Nope! See http://www.seawhy.com/xlroch.html for a
method. This one starts with bicarbonate of soda and makes
sodium carbonate from it by baking it. In many places one
can obtain pretty chemically pure sodium carbonate AKA
washing soda or soda ash (for the anhydrous form). It is a
common photographic chemical but was long avaiable in
grocery stores. I have not seen it there for some time but I
think some hardware stores still have it. Also possibly
swimming pool supply places. Cream of Tartar is, I am pretty
sure, still available at grocery stores.
I don't know what quality of crystal one gets but
likely it will be good enough to demonstrate
piezoelectricity. Actual crystal microphones, headphones,
phono pickups, were made of multiple crystals cemented
together so as to magnify either their output or their
mechanical motion when excited by an electrical current.
If you can wade your way through the "patentese" there
is something to be learned from the patents held by the
Brush Development Company. One of these, issued to Charles
B. Sawyer, is one of the earliest to describe practical
piezoelectric devices USP RE20213 Its probably the first
description of a "bimorph" or bender type crystal element.
Most of the early patents on piezoelectric appliances were
owned by Brush. A Google Patents search for "Brush

development company" with the quotation marks will find them. Many of the earliest ones were issued to C.B.Sawyer and A.L.W. Williams. Astatic, and all other makers of crystal microphones, phono pickups, and other devices (like stress detectors) were licensed by Brush.
Among the Brush patents are some relating to the growing of Rochelle salt crystals in production settings. Electrodes can be made from ordinary aluminum foil. I am not sure what sort of cement should be used, something that does not contain water, probaby airplane glue would work. Whatever is used must not dissolve the crystals.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

3984. 3.5mhz xtal for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 11:20:23 UTC
From: Bry Carling
Topic: 3984 Message: 3984

Terry - I can supply that crystal.

Do you need a crystal that covers the 3.5 MHz BAND?
Or do you want a 3.500 MHz CRYSTAL?

Both are available...

Regards - Brian, Af4K

RE: WTB 3.5mhz xtal for SPR4
Posted by: "n4sub" n4sub@... n4sub
Date: Tue Jul 13, 2010 6:59 am ((PDT))

Hello to all-I am looking for a 3.5mhz xtal for my SPR4-anyone have one?Thought I would check before going to International Crystal. Also does anyone use an FS4 with their SPR4? I would like to hear from you if you do. Tnx-73--Terry N4SuB

[Non-text portions of this message have been removed]

3985. Wanted: panel jack for TR4/T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 18:14:43 UTC
From: David
Topic: 3985 Message: 3985

Hi, does anyone have a spare panel jack for the drake/collins .206 plug? These are kinda hard to find.
Thanks,
David
Wd9cmd

3986. Re: [DrakeRadio] Wanted: panel jack for TR4/T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 18:53:58 UTC
From: Carl McLelland
Topic: 3985 Message: 3986

David,
Try an aircraft avionics repair facility at a general aviation airport. It's the same plug/jack for aircraft mikes.
Carl KF7GJO
----- Original Message -----
From: David
To: DrakeRadio@yahoogroups.com
Sent: Thursday, July 15, 2010 11:14 AM
Subject: [DrakeRadio] Wanted: panel jack for TR4/T4x

Hi, does anyone have a spare panel jack for the drake/collins .206 plug? These are kinda hard to find.
Thanks,
David
Wd9cmd

[Non-text portions of this message have been removed]

3987. Re: [DrakeRadio] Wanted: panel jack for TR4/T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 18:55:21 UTC
From: Paul Kraemer
Topic: 3985 Message: 3987

Mouser has them
Switchcraft makes them
Paul K0UYA
----- Original Message -----
From: "David" <drakes@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, July 15, 2010 1:14 PM
Subject: [DrakeRadio] Wanted: panel jack for TR4/T4x

> Hi, does anyone have a spare panel jack for the drake/collins .206 plug?
> These are kinda hard to find.
> Thanks,
> David
> Wd9cmd
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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3988. Re: [DrakeRadio] Wanted: panel jack for TR4/T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 19:12:58 UTC
From: Dick Hanna
Topic: 3985 Message: 3988

Made by Switchcraft, Mouser PN 502-S-12B about $4.00 each.

Dick Hanna, K3VYY

On Thu, Jul 15, 2010 at 2:55 PM, Paul Kraemer <elespe@...> wrote:

>
>
> Mouser has them
> Switchcraft makes them
> Paul K0UYA
>
> ----- Original Message -----
> From: "David" <drakes@... <drakes%40psci.net>>
> To: <DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>>
> Sent: Thursday, July 15, 2010 1:14 PM
> Subject: [DrakeRadio] Wanted: panel jack for TR4/T4x
>
> > Hi, does anyone have a spare panel jack for the drake/collins .206 plug?
> > These are kinda hard to find.
> > Thanks,
> > David
> > Wd9cmd
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3989. Re: [DrakeRadio] Wanted: panel jack for TR4/T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 19:14:50 UTC
From: Dick Hanna
Topic: 3985 Message: 3989

Mouser PN 502-S-12B about $4.00 each.

Dick Hanna, K3VYY

On Thu, Jul 15, 2010 at 2:55 PM, Paul Kraemer <elespe@...> wrote:

Mouser has them
Switchcraft makes them
Paul K0UYA

----- Original Message -----
From: "David" <drakes@... <drakes%40psci.net>>
To: <DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>>

Sent: Thursday, July 15, 2010 1:14 PM
Subject: [DrakeRadio] Wanted: panel jack for TR4/T4x

> Hi, does anyone have a spare panel jack for the drake/collins .206 plug?
> These are kinda hard to find.
> Thanks,
> David
> Wd9cmd
>
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

3990. Re: WAS: Question on a Microphone for the B Lines, NOW: Shure Mic Element

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-15 22:05:58 UTC
From: jb
Topic: 3928 Message: 3990

<Cream of Tartar is, I am pretty sure, still available at grocery stores.>
Oh, yeah! In the spice rack along with the Arm & Hammer bicarbonate of soda. That's what makes it so facinating. Have no idea what you would use it for but I did recognize it.

I tried to tell a couple of the guys at work (civil engineers who would usually be into techno-peculiarities) and couldn't covince them, that is the ones that didn't respond with, "Cream of what?". Of course they have other reasons to know me too well to bite too quickly. =) Now I know how the kid who cried "wolf!" felt.

Really, fascinating stuff.
Thanks Richard.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "jb" <xjjb4x4@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 13, 2010 5:10 PM
> Subject: [DrakeRadio] WAS: Question on a Microphone for the
> B Lines, NOW: Shure Mic Element
>
>
> > >
> > >
> > >
> > >
> > >
> > > Also, the components needed to make Rochelle salt crystals
> > > are
> > > sodium carbonate and _potassium_ bitartrate. The latter is
> > > known as Cream of Tartar,.....
> > >
> > > OK, Richard. Now I am suspecting that you're pulling my
> > > leg. =)
> > >
> Nope! See http://www.seawhy.com/xlroch.html for a
> method. This one starts with bicarbonate of soda and makes
> sodium carbonate from it by baking it. In many places one
> can obtain pretty chemically pure sodium carbonate AKA

> washing soda or soda ash (for the anhydrous form). It is a
> common photographic chemical but was long avaiable in
> grocery stores. I have not seen it there for some time but I
> think some hardware stores still have it. Also possibly
> swimming pool supply places. Cream of Tartar is, I am pretty
> sure, still available at grocery stores.
> I don't know what quality of crystal one gets but
> likely it will be good enough to demonstrate
> piezoelectricity. Actual crystal microphones, headphones,
> phono pickups, were made of multiple crystals cemented
> together so as to magnify either their output or their
> mechanical motion when excited by an electrical current.
> If you can wade your way through the "patentese" there
> is something to be learned from the patents held by the
> Brush Development Company. One of these, issued to Charles
> B. Sawyer, is one of the earliest to describe practical
> piezoelectric devices USP RE20213 Its probably the first
> description of a "bimorph" or bender type crystal element.
> Most of the early patents on piezoelectric appliances were
> owned by Brush. A Google Patents search for "Brush
> development company" with the quotation marks will find
> them. Many of the earliest ones were issued to C.B.Sawyer
> and A.L.W. Williams. Astatic, and all other makers of
> crystal microphones, phono pickups, and other devices (like
> stress detectors) were licensed by Brush.
> Among the Brush patents are some relating to the
> growing of Rochelle salt crystals in production settings.
> Electrodes can be made from ordinary aluminum foil. I
> am not sure what sort of cement should be used, something
> that does not contain water, probaby airplane glue would
> work. Whatever is used must not dissolve the crystals.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

3991. RE: [DrakeRadio] 3.5mhz xtal for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-16 00:57:55 UTC
From: TERRY/N4SuB
Topic: 3984 Message: 3991

Hi Brian--Tnx for the reply. Iwant to listen between 3900 &4000khz ham band(75 meters). That would be the 3.5 xtal am I right? Tnx-Terry

On Thu, Jul 15, 2010 at 7:20 AM, Bry Carling wrote:

> Terry - I can supply that crystal.
>
> Do you need a crystal that covers the 3.5 MHz BAND?
> Or do you want a 3.500 MHz CRYSTAL?
>
> Both are available...
>
> Regards - Brian, Af4K
>
>
> RE: WTB 3.5mhz xtal for SPR4
> Posted by: "n4sub" n4sub@... n4sub
> Date: Tue Jul 13, 2010 6:59 am ((PDT))
>
> Hello to all-I am looking for a 3.5mhz xtal for my SPR4-anyone have
> one?Thought I would check before going to International Crystal. Also
> does
> anyone use an FS4 with their SPR4? I would like to hear from you if
> you
> do. Tnx-73--Terry N4SuB
>
>
>
> [Non-text portions of this message have been removed]

3992. Re: [DrakeRadio] Re: WAS: Question on a Microphone for the B Lines, NOW: Shure Mic Element

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-16 02:17:04 UTC
From: Richard Knoppow
Topic: 3928 Message: 3992

```
----- Original Message -----
From: "jb" <xjjb4x4@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, July 15, 2010 3:05 PM
Subject: [DrakeRadio] Re: WAS: Question on a Microphone for
the B Lines, NOW: Shure Mic Element

>
> <Cream of Tartar is, I am pretty sure, still available at
> grocery stores.>
> Oh, yeah! In the spice rack along with the Arm & Hammer
> bicarbonate of soda. That's what makes it so facinating.
> Have no idea what you would use it for but I did recognize
> it.
>
> I tried to tell a couple of the guys at work (civil
> engineers who would usually be into techno-peculiarities)
> and couldn't covince them, that is the ones that didn't
> respond with, "Cream of what?". Of course they have other
> reasons to know me too well to bite too quickly. =) Now
> I know how the kid who cried "wolf!" felt.
>
> Really, fascinating stuff.
> Thanks Richard.
>
> God bless
> 73
> jb
> kg6biw
>
Cream of Tartar is used in cooking and in baking as an
emulsifier. I thought it was an ingredient of double-acting
baking powder but I found the ingredients list for Clabber
Girl Baking Powder and it has something else in it (sodium
aluminum phosphate). BTW, I have never been able to find a
definition of what a clabber girl was or what clabbering is.
The imagination runs wild.
Anyway, this is getting pretty far afield for a Drake
radio list.

--
Richard Knoppow
Los Angeles
WB6KBL
```

dickburk@...

3993. RE: [DrakeRadio] 3.5mhz xtal for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-16 08:18:24 UTC
From: TERRY/N4SuB
Topic: 3984 Message: 3993

Hi Brian-I am sorry I see that it is a 14.09 mhz xtal for the recieving
of the 3000-3500Khz/75 meter ham band. my mistake--Terry

On Thu, Jul 15, 2010 at 7:20 AM, Bry Carling wrote:

> Terry - I can supply that crystal.
>
> Do you need a crystal that covers the 3.5 MHz BAND?
> Or do you want a 3.500 MHz CRYSTAL?
>
> Both are available...
>
> Regards - Brian, Af4K
>
>
> RE: WTB 3.5mhz xtal for SPR4
> Posted by: "n4sub" n4sub@... n4sub
> Date: Tue Jul 13, 2010 6:59 am ((PDT))
>
> Hello to all-I am looking for a 3.5mhz xtal for my SPR4-anyone have
> one?Thought I would check before going to International Crystal. Also
> does
> anyone use an FS4 with their SPR4? I would like to hear from you if
> you
> do. Tnx-73--Terry N4SuB
>
>
>
> [Non-text portions of this message have been removed]

3994. RE: 3.5 MHz xtal for SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-17 15:12:59 UTC
From: Bry Carling
Topic: 3994 Message: 3994

If someone needs a 14.09 MHz crystal, then I can provide them.

http://www.af4k.com/crystals.htm

73 - Brian, Af4K

[Non-text portions of this message have been removed]

3995. Sidetone sounding strange today: ringing & clicking

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-18 23:18:33 UTC
From: billykatzz
Topic: 3995 Message: 3995

Maybe it's my OCD kicking in, maybe it's this crazy heatwave with 3-digit temps, but I can swear today that when I fired up my TR-4Cw, the sidetone, particularly when wearing headphones, had a new sound: sometimes a clicking, sometimes a faint ringing reverb quality that I hadn't noticed previously. In addition, the Load control seems kind of unresponsive when I'm trying to tune up.

Is this a case of my 6JB6's preparing to go South on me?

TNX ES 73

Bill in Pasadena, NK6Q

3996. Re: [DrakeRadio] Sidetone sounding strange today: ringing & clicking

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-19 04:03:25 UTC
From: Larry Taft
Topic: 3995 Message: 3996

Tighten all circuit card mounting/grounding screws. Use a tiny drop of
DeOxit on the band switch rotor tabs. DeOxit clean tube pins. Should
cure the wandering electrons.
73, Larry K2LT
drakerepair.com 800-687-9161

billykatzz wrote:
> Maybe it's my OCD kicking in, maybe it's this crazy heatwave with 3-digit temps, but I can swear today that when I fired up my TR-4Cw, the sidetone, particularly when wearing headphones, had a new sound: sometimes a clicking, sometimes a faint ringing reverb quality that I hadn't noticed previously. In addition, the Load control seems kind of unresponsive when I'm trying to tune up.
>
> Is this a case of my 6JB6's preparing to go South on me?
>
> TNX ES 73
>
> Bill in Pasadena, NK6Q
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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3997. Using FS4 with SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-20 12:02:25 UTC
From: TERRY/N4SuB
Topic: 3997 Message: 3997

Hello to all-I would like to hear from anyone who has used the Drake FS4 with the SPR4 receiver. I am fortunate to have both and believe this is a perfect match. The manual for both is VERY vague on the hookup. How does the range selector come into effect? ANY info would be greatly appreciated.
73 & tnx--Terry N4SuB

3998. Re: [DrakeRadio] Using FS4 with SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-20 15:34:10 UTC
From: Garey Barrell
Topic: 3997 Message: 3998

Terry -

The first thing is you need a 9.59 MHz crystal in the FS-4. The 9.6 MHz crystal was standard for the R-4(any) series.

Since the accessory crystals are inside the SPR-4 rather than on the back panel as in the R-4(any), you have to route the INJ cable from the FS-4 through a hole in the back of the SPR-4. The receiver end of the INJ cable should have the shield connected to the chassis, and the center conductor connected to the single pin of one of the accessory crystal sockets. The pin you want is one that is connected to the PC trace that goes around the outside of the board, connecting all the crystals together.

If you don't have the original INJ cable supplied with the FS-4, keep the cable as short as possible. Any coax will work, but the lower the capacity, the better.

The RANGE selector must be set to the appropriate range for the frequency you are listening to. The PRESELECTOR must also be peaked for the correct frequency.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

TERRY/N4SuB wrote:
> Hello to all-I would like to hear from anyone who has used the Drake
> FS4 with the SPR4 receiver. I am fortunate to have both and believe this
> is a perfect match. The manual for both is VERY vague on the hookup. How
> does the range selector come into effect? ANY info would be greatly
> appreciated.
> 73& tnx--Terry N4SuB
>
>
>

3999. SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-23 20:24:32 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 3999

Greetings to the list again --

While I've had some complimentary reports on my TR7 audio with just my microphone, when I kick in the SP75, there was a complaint of either rf getting into it, or a 60hz hum.

I listened to myself with headphones on my short waver receiver, and there is a racket.

Here's the set up. The SP75 is powered from the aux power on the back of my ALS 600 linear.

I know the sp75 manual says use the tranceiver's power supply outlet, but mine's dead.

Do I need to fix the Drake PS?
Can I power the SP75 another way?
Do I need ferrite somewhere? Everywhere?

Other possibly pertinent info:

Antenna's a Butternut vertical, ground mounted 40 or 50 feet away, with two "ugly baluns" in line.

No TVI. The only other indication of rf in the house is the powered computer speakers in the next room.

Thanks in advance for suggestions.

Brenton
VE6IE

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4000. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-23 21:29:20 UTC
From: Garey Barrell
Topic: 3999 Message: 4000

Brenton -

Sounds like ground loops and/or RF getting into the SP-75. The main problem is that the SP-75 is getting it's power from a device plugged into the line and probably grounded through the power cord and/or the antenna coax, and the coax to the TR-7, and ... Ground loops!!

There is a 1A fuse on the AUX DC jack on the back of the PS-7. This is often blown by someone plugging in either a device drawing considerably more than 1 Amp, or for some unknown reason plugging in a shorting plug (I found one of those once).

If it was mine, I'd replace the fuse, then plug the SP-75 in there to see what happens! I've never had an SP-75, but I would hope that the power lead is shielded cable terminated in an RCA Phono jack.

There is RF filtering and reverse polarity protection just inside the SP-75, so shielded cable to the TR-7 should be sufficient. You do NOT want ANY other grounds to the SP-75 chassis or to the microphone plugged into the SP-75. The power lead should be the ONLY connection between the SP-75 and any other gear in the shack.

If proper grounding doesn't solve the problem completely, (although it should get rid of any 60 Hz hum,) a snap-on ferrite on the AUDIO output line might grab RF.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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4001. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-23 21:38:08 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4001

Garey,

Thanks for the speedy reply.

I 'll look at that fuse immediately, and report back after work with what I discover.

More to come...

73,
Brenton, VE6IE

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: July 23, 2010 3:29 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

Brenton -

Sounds like ground loops and/or RF getting into the SP-75. The main problem is that the SP-75 is getting it's power from a device plugged into the line and probably grounded through the power cord and/or the antenna coax, and the coax to the TR-7, and ... Ground loops!!

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If it was mine, I'd replace the fuse, then plug the SP-75 in there to see what happens! I've never had an SP-75, but I would hope that the power lead is shielded cable terminated in an RCA Phono jack.

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4002. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-23 23:29:48 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4002

Garey,

I checked the fuse, and it's good!

But I take your point about ground loops. It's gotta be run from the Drake supply or else, maybe, batteries.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

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Sent: July 23, 2010 3:29 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

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4003. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 01:57:12 UTC
From: Garey Barrell
Topic: 3999 Message: 4003

Brenton -

You DID check the fuse INSIDE the power supply, NOT the one on the back panel?

That supply comes through the INTERNAL fuse directly from the main output of the supply.

73, Garey - K4OAH
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> Sent: July 23, 2010 3:29 PM
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4004. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 01:08:03 UTC
From: Jim Shorney
Topic: 3999 Message: 4004

On Fri, 23 Jul 2010 17:29:48 -0600, Brenton Crowhurst wrote:

>But I take your point about ground loops. It's gotta be run from the Drake supply or else, maybe, batteries.

Hi Brent,

I ran mine from the same generic 12V power supply that I used to runthe TR-7 from, before I got a PS-7, with no issues. But it was essentially connected tht same way as it would be with the PS-7. The RF feedback problem I was having at Field Day turned out to be an unconnected shield in the headset cord. I had added a heavy braided ground strap between the case of the SP-75 and the gound lug on the back of the TR-7 while troubleshooting the headset at the recommendation of someone on this list, I left it in place as it seemed to be causing no harm.

Powering it from the amplifier may just be bad karma. A little bit if RF there may just be enough to cause your problem. Make sure your mic cord is good, and the shield is connected at both ends. As Garey said, look for ground loops. It is possible that it may only be happy if run from the same PS as the TR-7.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4005. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 02:46:15 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4005

Jim,

Thanks. I hope you guys on this forum know what a resource you are to techno-tards like me -- to use a politically (?)correct term!

Finding the the PS 7 aux 13.? volt outlet was dead, I winged it, recognizing the SP-75 manual probably knew better. I better fix the source, knowing now the outcome was pre-ordained.

It tickles me that this "ancient" rig sounds so good, without amp or SP-75. I'd like to havez the same results with the SP-75 on duty!

I'll double check the mic grounding.

Also, we have a ham, at work, in the electrical engineering dept. He spotted my Butternut hf9v in the trunk at 50 paces, when I had the back open, and came over to introduce himself. Such resources are not to be ignored! Bet he'd have a look see if I told him it was "hosital related equipment"!

Heheh.

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney [jshorney@...]
Sent: July 23, 2010 7:08 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] SP75 -- power problem

On Fri, 23 Jul 2010 17:29:48 -0600, Brenton Crowhurst wrote:

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

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4006. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 02:32:23 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4006

Huh? Wha?

Uh oh.... No, I checked the fuse accessible from the back panel.

ok, now where did I put that screw driver... I'm sure I'd reconize it if'n I saw it. ...

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Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB
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From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: July 23, 2010 7:57 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

Brenton -

You DID check the fuse INSIDE the power supply, NOT the one on the back
panel?

That supply comes through the INTERNAL fuse directly from the main
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4007. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 14:10:59 UTC
From: Garey Barrell
Topic: 3999 Message: 4007

It's bigger on one end than the other, and the little end goes toward
the equipment... Good luck!

73, Garey - K4OAH
Glen Allen, VA

Brenton Crowhurst wrote:
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[k4oah@...]
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>>> Do I need ferrite somewhere? Everywhere?
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>>> Other possibly pertinent info:
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>>> Antenna's a Butternut vertical, ground mounted 40 or 50 feet away, with two "ugly baluns" in line.
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>>> No TVI. The only other indication of rf in the house is the powered computer speakers in the next room.
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>>> Thanks in advance for suggestions.
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>>> Brenton
>>> VE6IE
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4008. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 14:17:21 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4008

Alright, now I think we're in business. With the top of the PS taken off, I easily traced a wire back from the Aux output jack to a circuit board at the front, left side of the thing. A blown fuse on that board reads, if my strained eyes have it right, 1A 250 V.

I believe this is where you were directing me, and suspect this is my culprit!

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB
_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: July 23, 2010 7:57 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

Brenton -

You DID check the fuse INSIDE the power supply, NOT the one on the back
panel?

That supply comes through the INTERNAL fuse directly from the main
output of the supply.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Garey,
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> I checked the fuse, and it's good!
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> Calgary, AB
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> Sent: July 23, 2010 3:29 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] SP75 -- power problem
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> Brenton -
>
> Sounds like ground loops and/or RF getting into the SP-75. The main
> problem is that the SP-75 is getting it's power from a device plugged
> into the line and probably grounded through the power cord and/or the
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> often blown by someone plugging in either a device drawing considerably
> more than 1 Amp, or for some unknown reason plugging in a shorting plug
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> power lead is shielded cable terminated in an RCA Phono jack.
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> SP-75, so shielded cable to the TR-7 should be sufficient. You do NOT
> want ANY other grounds to the SP-75 chassis or to the microphone plugged
> into the SP-75. The power lead should be the ONLY connection between
> the SP-75 and any other gear in the shack.
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> If proper grounding doesn't solve the problem completely, (although it
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4009. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 14:42:14 UTC
From: Garey Barrell
Topic: 3999 Message: 4009

Yup! Figured out that screwdriver thingy, didja?

That's an "MDL" fuse, meaning that it is a "slow-blow" style. Probably
not going to find it locally, unless Radio Shack has one. If not, a 1A
fast blow (standard '3AG') will work for now, as I think the SP-75 only
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4010. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 15:12:46 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4010

Hah! That explains the "3AG" that also appears on the thing, but I'm really straining "me glazzies" now.

Thanks Garey, I'll see if I can't get this back on the air today, and find out how this rig sounds when the compressor doesn't have ground loops to work against, not to mention noise from the linear to compress along with my voice!

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Brenton Crowhurst, PhD, RPsych
Psychologist
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From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: July 24, 2010 8:42 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

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4011. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-24 15:54:41 UTC
From: Garey Barrell
Topic: 3999 Message: 4011

Yep, sounds like the guy who blew that fuse couldn't find an "MDL"
either! :-)

I've forgotten all the percentages and times, but the "MDL" just means
that the fuse will take a short duration overload to allow for turn-on
surge currents, while the "3AG" pops pretty quickly.

Probably not significant for use with the SP-75 since it doesn't have
any big caps on the input. As I recall it has it's own 1/4 A "3AG" fuse
internally for the reverse polarity diode protection.

73, Garey - K4OAH
Glen Allen, VA

Brenton Crowhurst wrote:
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4012. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 00:07:56 UTC
From: Jim Shorney
Topic: 3999 Message: 4012

On Sat, 24 Jul 2010 08:17:21 -0600, Brenton Crowhurst wrote:

>A blown fuse on that board reads, if my strained eyes have it right, 1A 250 V.

For a fuse in a 12 volt circuit, I would suggest visiting an auto parts store
and purchasing some low-voltage fuses. There are differences, and a 250 volt
fuse can act quite differently in a 12v circuit than a 32 volt fuse.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
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for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4013. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 00:11:44 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4013

Thanks Jim,

I replaced it with what was in it, and the PS 7 now runs the SP 75. No idea yet how it sounds.

But I better not rest easy just yet, and take your suggestion of getting some more proper fuses! .

Hopefully it'll sound just fine.

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney [jshorney@...]
Sent: July 24, 2010 6:07 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] SP75 -- power problem

On Sat, 24 Jul 2010 08:17:21 -0600, Brenton Crowhurst wrote:

>A blown fuse on that board reads, if my strained eyes have it right, 1A 250 V.

For a fuse in a 12 volt circuit, I would suggest visiting an auto parts store
and purchasing some low-voltage fuses. There are differences, and a 250 volt
fuse can act quite differently in a 12v circuit than a 32 volt fuse.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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4014. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 01:59:05 UTC
From: Keith R. Erickson
Topic: 3999 Message: 4014

The issue is interrupting capability of the fuse.

Bigger problem if you try to use a 12 V fuse on a 250 or 120 volt AC circuit.

73

KoGNW Keith

[Non-text portions of this message have been removed]

4015. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 03:43:20 UTC
From: Garey Barrell
Topic: 3999 Message: 4015

Jim Shorney wrote:
> On Sat, 24 Jul 2010 08:17:21 -0600, Brenton Crowhurst wrote:
>
>
>> A blown fuse on that board reads, if my strained eyes have it right, 1A 250 V.
>>
>
> For a fuse in a 12 volt circuit, I would suggest visiting an auto parts store
> and purchasing some low-voltage fuses. There are differences, and a 250 volt
> fuse can act quite differently in a 12v circuit than a 32 volt fuse.
>
Jim / Brenton -

Not really. The difference between 32 and 125V fuses is in their ability to 'clear' the higher voltage. You should NOT use a 32V fuse on 125, but no reason not to go the other way.

Typically you don't see 32V fuses in less than 8-10A sizes, usually for automotive use. My MG had TWO 30 Amp fuses, period! :-)

The MDL will withstand 200% of rated current for 5 -10 seconds, and 135% for an hour.

The 3AG will withstand 200% of rated current for 2 minutes, and 135% for an hour.

73, Garey - K4OAH
Glen Allen, VA

4016. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 04:12:02 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4016

Ok who wants to get on 40m and gimme a radio check? I can't raise anything with my cq-ing!

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: July 24, 2010 9:43 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

Jim Shorney wrote:
> On Sat, 24 Jul 2010 08:17:21 -0600, Brenton Crowhurst wrote:
>
>
>> A blown fuse on that board reads, if my strained eyes have it right, 1A 250 V.
>>
>
> For a fuse in a 12 volt circuit, I would suggest visiting an auto parts store
> and purchasing some low-voltage fuses. There are differences, and a 250 volt
> fuse can act quite differently in a 12v circuit than a 32 volt fuse.
>
Jim / Brenton -

Not really. The difference between 32 and 125V fuses is in their ability to 'clear' the higher voltage. You should NOT use a 32V fuse on 125, but no reason not to go the other way.

Typically you don't see 32V fuses in less than 8-10A sizes, usually for automotive use. My MG had TWO 30 Amp fuses, period! :-)

The MDL will withstand 200% of rated current for 5 -10 seconds, and 135% for an hour.

The 3AG will withstand 200% of rated current for 2 minutes, and 135% for an hour.

73, Garey - K4OAH
Glen Allen, VA

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message. Thank you.

4017. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-25 19:51:06 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4017

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4018. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-26 00:20:09 UTC
From: Jim Shorney
Topic: 3999 Message: 4018

On Sat, 24 Jul 2010 23:43:20 -0400, Garey Barrell wrote:

>The MDL will withstand 200% of rated current for 5 -10 seconds, and 135%
>for an hour.
>
>The 3AG will withstand 200% of rated current for 2 minutes, and 135% for
>an hour.

It also depends on the quality of the fuses. Reputable manufacturers come
pretty close to the curves, but I've heard horror stories about cheap no-name
import fuses that don't even come close to opening when they should.

Remember, the transistor will always blow to protect the fuse...

73

-Jim

--
Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4019. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-26 01:49:54 UTC
From: Garey Barrell
Topic: 3999 Message: 4019

Jim Shorney wrote:
> On Sat, 24 Jul 2010 23:43:20 -0400, Garey Barrell wrote:
>
>
>> The MDL will withstand 200% of rated current for 5 -10 seconds, and 135%
>> for an hour.
>>
>> The 3AG will withstand 200% of rated current for 2 minutes, and 135% for
>> an hour.
>>
>
> It also depends on the quality of the fuses. Reputable manufacturers come
> pretty close to the curves, but I've heard horror stories about cheap no-name
> import fuses that don't even come close to opening when they should.
>
> Remember, the transistor will always blow to protect the fuse...
>

We didn't call them 'three-legged fuses" for nothing!!

4020. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-26 04:14:43 UTC
From: Jim Shorney
Topic: 3999 Message: 4020

On Sun, 25 Jul 2010 21:49:54 -0400, Garey Barrell wrote:

>We didn't call them 'three-legged fuses" for nothing!!

Funny, I haven't heard that one in a while (except when I say it). I sometimes have to explain it to the younger techs.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://www.nebraskaghosts.org

4021. TR-5 schematic?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-26 12:59:32 UTC
From: w1kilofoxtrot
Topic: 4021 Message: 4021

I've seen the TR-5 manual on line, but am looking for a copy of the schematic. Can anyone help?

73,
Steve
W1KF

4022. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-27 13:52:08 UTC
From: Garey Barrell
Topic: 3999 Message: 4022

Jim Shorney wrote:
> On Sun, 25 Jul 2010 21:49:54 -0400, Garey Barrell wrote:
>
>
>> We didn't call them 'three-legged fuses" for nothing!!
>>
>
> Funny, I haven't heard that one in a while (except when I say it). I sometimes
> have to explain it to the younger techs.
>
>
Whippersnappers...... <grumble>

4023. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-27 18:27:58 UTC
From: Richard Knoppow
Topic: 3999 Message: 4023

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 27, 2010 6:52 AM
Subject: Re: [DrakeRadio] SP75 -- power problem

>
>
> Jim Shorney wrote:
>> On Sun, 25 Jul 2010 21:49:54 -0400, Garey Barrell wrote:
>>
>>
>>> We didn't call them 'three-legged fuses" for nothing!!
>>>
>>
>> Funny, I haven't heard that one in a while (except when I
>> say it). I sometimes
>> have to explain it to the younger techs.
>>
>>
> Whippersnappers...... <grumble>
>
I found that a whippersnapper at a local hardware store
had never heard of Shellac!

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4024. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-27 18:47:44 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4024

So I bet he didn't see it coming when you told him you were going to give him a shellacking.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow [1oldlens1@...]
Sent: July 27, 2010 12:27 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

----- Original Message -----
From: "Garey Barrell" <k4oah@...<mailto:k4oah%40mindspring.com>>
To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
Sent: Tuesday, July 27, 2010 6:52 AM
Subject: Re: [DrakeRadio] SP75 -- power problem

>
>
> Jim Shorney wrote:
>> On Sun, 25 Jul 2010 21:49:54 -0400, Garey Barrell wrote:
>>
>>
>>> We didn't call them 'three-legged fuses" for nothing!!
>>>
>>
>> Funny, I haven't heard that one in a while (except when I
>> say it). I sometimes
>> have to explain it to the younger techs.
>>
>>
> Whippersnappers..... <grumble>
>
I found that a whippersnapper at a local hardware store
had never heard of Shellac!

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...<mailto:dickburk%40ix.netcom.com>

_____
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[Non-text portions of this message have been removed]

4025. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-28 03:26:11 UTC
From: Jim Shorney
Topic: 3999 Message: 4025

On Tue, 27 Jul 2010 09:52:08 -0400, Garey Barrell wrote:

>Whippersnappers..... <grumble>

We called them "young punks" in my day.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4026. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-30 04:48:40 UTC
From: marc k
Topic: 3999 Message: 4026

Just try talking to them about "Magic Smoke", and letting same out..
By the time you are done explaining the joke, you end up wishing that you
had never said it in the first place!
Also, discussions involving any technology older than last week can be
entertaining!

On Tue, Jul 27, 2010 at 11:26 PM, Jim Shorney <jshorney@...>wrote:

>
>
> On Tue, 27 Jul 2010 09:52:08 -0400, Garey Barrell wrote:
>
> >Whippersnappers...... <grumble>
>
> We called them "young punks" in my day.
>
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and
> he will learn for a lifetime."
>
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> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>
>

[Non-text portions of this message have been removed]

4027. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 03:39:10 UTC
From: Jim Shorney
Topic: 3999 Message: 4027

On Fri, 30 Jul 2010 00:48:40 -0400, marc k wrote:

>Just try talking to them about "Magic Smoke", and letting same out..

I just explain that the same magic blue smoke is inside old Chevy engines, with
the same effect. When all the blue smoke has left, it doesn't work anymore.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4028. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 06:20:27 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4028

Now you guys have lost me completely!

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney [jshorney@...]
Sent: July 30, 2010 9:39 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75 -- power problem

On Fri, 30 Jul 2010 00:48:40 -0400, marc k wrote:

>Just try talking to them about "Magic Smoke", and letting same out..

I just explain that the same magic blue smoke is inside old Chevy engines, with the same effect. When all the blue smoke has left, it doesn't work anymore.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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4029. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 06:48:15 UTC
From: Jim Shorney
Topic: 3999 Message: 4029

On Sat, 31 Jul 2010 00:20:27 -0600, Brenton Crowhurst wrote:

>Now you guys have lost me completely!

There is blue smoke inside of Chevy engines and electrical parts. When you let the blue smoke out of the parts, they don't work anymore. Therefore, the magic blue smoke is what makes the parts work. Chevy engines are slightly different, as they will begin to leak the magic blue smoke as they age. But they have plenty inside, as they are big and heavy. As long as some is left inside, the engine will run. When it runs out of magic blue smoke (can no longer emit any), it stops running.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4030. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 10:22:05 UTC
From: marc k
Topic: 3999 Message: 4030

LOL!!!!

On Sat, Jul 31, 2010 at 2:20 AM, Brenton Crowhurst
<brenton.crowhurst@...> wrote:
> Now you guys have lost me completely!
>
>
>
>
> _____
> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
> Calgary, AB
> _____
> From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
[jshorney@inebraska.com]
> Sent: July 30, 2010 9:39 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] SP75 -- power problem
>
> On Fri, 30 Jul 2010 00:48:40 -0400, marc k wrote:
>
>>Just try talking to them about "Magic Smoke", and letting same out..
>
> I just explain that the same magic blue smoke is inside old Chevy engines, with
> the same effect. When all the blue smoke has left, it doesn't work anymore.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
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>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
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>
>
>
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

4031. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 11:50:55 UTC
From: Terrell Hamilton
Topic: 3999 Message: 4031

Must be a whipper-snapper,
Brenton :)

-----Original Message-----
From:
DrakeRadio@yahoogroups.com
[mailto:DrakeRadio@yahoogroups
.com] On Behalf Of Brenton
Crowhurst
Sent: Friday, July 30, 2010
11:20 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] SP75
-- power problem

Now you guys have lost me
completely!

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From:
DrakeRadio@yahoogroups.com
[DrakeRadio@yahoogroups.com]
On Behalf Of Jim Shorney
[jshorney@...]
Sent: July 30, 2010 9:39 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75
-- power problem

On Fri, 30 Jul 2010 00:48:40
-0400, marc k wrote:

>Just try talking to them
about "Magic Smoke", and
letting same out..

I just explain that the same
magic blue smoke is inside old
Chevy engines, with

the same effect. When all the blue smoke has left, it doesn't work anymore.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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Yahoo! Groups Links

http://groups.yahoo.com/group/DrakeRadio/

http://groups.yahoo.com/group/DrakeRadio/join
(Yahoo! ID required)

DrakeRadio-digest@yahoogroups.com

DrakeRadio-fullfeatured@yahoogroups.com

DrakeRadio-unsubscribe@yahoogroups.com

http://docs.yahoo.com/info/terms/

4032. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 11:59:44 UTC
From: Terrell Hamilton
Topic: 3999 Message: 4032

For all the whipper-snappers - in the era of $100 used cars (1960, thereabouts) the 49-51 Chevys were famous for wearing out their rings and sending blue oil smoke out the exhaust. On the plus side, they seemed to last forever, as long as you put in a quart of oil or so each week. (In those days, Oil was only 19-29 cents a qt, as I remember...)

Terry
K7WLD
Wenatchee, WA

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Brenton Crowhurst
Sent: Friday, July 30, 2010 11:20 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] SP75 -- power problem

Now you guys have lost me completely!

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney [jshorney@...]
Sent: July 30, 2010 9:39 PM

To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] SP75
-- power problem

On Fri, 30 Jul 2010 00:48:40
-0400, marc k wrote:

>Just try talking to them
about "Magic Smoke", and
letting same out..

I just explain that the same
magic blue smoke is inside old
Chevy engines, with
the same effect. When all the
blue smoke has left, it
doesn't work anymore.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6,
T4XC/R4C/L4B, NCL2000, SB104A,
R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage,
all the time!

"Give a man a URL, and he will
learn for an hour; teach him
to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group -
http://groups.yahoo.com/group/
HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/js
horney
http://www.nebraskaghosts.org

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of the intended recipient(s),
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or other disclosure is

strictly prohibited. If you
have received this message in
error, please notify the
sender immediately, and then
delete the original message.
Thank you.

Yahoo! Groups Links

http://groups.yahoo.com/group/
DrakeRadio/

http://groups.yahoo.com/group/
DrakeRadio/join
(Yahoo! ID required)

DrakeRadio-digest@yahoogroups.
com

DrakeRadio-fullfeatured@yahoog
roups.com

DrakeRadio-unsubscribe@yahoogr
oups.com

http://docs.yahoo.com/info/ter
ms/

4033. RE: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 16:56:13 UTC
From: Brenton Crowhurst
Topic: 3999 Message: 4033

Doohhhhhh! I didn't see that coming whatsoever, and now that you say it, BULLSEYE! Walked into it!

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Terrell Hamilton [hamilter@nwi.net]
Sent: July 31, 2010 5:50 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] SP75 -- power problem

Must be a whipper-snapper,
Brenton :)

-----Original Message-----
From:
DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups
.com] On Behalf Of Brenton
Crowhurst
Sent: Friday, July 30, 2010
11:20 PM
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] SP75
-- power problem

Now you guys have lost me
completely!

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From:
DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
[DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>]
On Behalf Of Jim Shorney
[jshorney@...<mailto:jshorney%40inebraska.com>]

Sent: July 30, 2010 9:39 PM
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] SP75
-- power problem

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doesn't work anymore.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6,
T4XC/R4C/L4B, NCL2000, SB104A,
R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage,
all the time!

"Give a man a URL, and he will
learn for an hour; teach him
to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group -
http://groups.yahoo.com/group/
HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/js
horney
http://www.nebraskaghosts.org

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Thank you.

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http://groups.yahoo.com/group/
DrakeRadio/

http://groups.yahoo.com/group/
DrakeRadio/join
(Yahoo! ID required)

DrakeRadio-digest@yahoogroups.
com

DrakeRadio-fullfeatured@yahoog
roups.com

DrakeRadio-unsubscribe@yahoogr
oups.com

http://docs.yahoo.com/info/ter
ms/

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4034. comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 17:24:57 UTC
From: arsnf7z
Topic: 4034 Message: 4034

I keep reading something that goes like "collectors buy Collins, but real users buy Drake". in the 70's, it seemed only the very rich owned Collins and as a student, I finally found the coins to buy a Drake R4C. the matching T4XC and L4B were not in my reality. I must say that I've never ever sat down and spent time with a 75S3 or KWM2, and so I am left wondering how they actually compare to the Drake experience.

it seems to me there is no comparision mechanically. I don't harbour complaints against my Drake equipment, but there is something special about how well the Collins gear was built. and yes, I realize you paid for it! how about electrically and operationally? any major differences surface between the two? I enjoy the passband-tuning, but I have never thought much of Drake audio on R4B/R4C receivers, though I do think the TR4 audio is nice.

just curious ... my reflections were that Quement Radio in San Jose, probably sold dozens of Drakes for every Collins that went out the store. I seem to recall most hams thought the Drake was a better deal.

thoughts?

NF7Z, daniel

4035. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 17:49:00 UTC
From: LEE BAHR
Topic: 4034 Message: 4035

I have both as many of my friends. We all agree Collins has it hands down on the mechanical side of the equation. Mechanically, Collins is a thing of beauty. However, we all feel Drake has better electronic circuits. This is not to say collins has bad electronics. Also, the PTO in Drake tunes 500 khz which is more then Collins so you don't need as many crystals. The AGC circuit in Drake is by far better then in Collins. 6146 tubes used in Collins will give slightly better distortion figures then 6JB6 tubes used in Drake, but does it really matter? 6146 tubes cost less then sweep tubes and easier to find today. Drake gear is a marvel in what you can do with inexpensive parts and still retain reliability. I love them both. In today's used market, Collins has better collector value then Drake but Drake is a much better deal if you want a really good radio for a great price. I would not go near any Drake gear cobled up with Sherwood mods and neither would a couple of my close knowledgeable friends.

Lee, w0vt

I keep reading something that goes like "collectors buy Collins, but real users buy Drake". in the 70's, it seemed only the very rich owned Collins and as a student, I finally found the coins to buy a Drake R4C. the matching T4XC and L4B were not in my reality. I must say that I've never ever sat down and spent time with a 75S3 or KWM2, and so I am left wondering how they actually compare to the Drake experience.

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thoughts?

NF7Z, daniel

[Non-text portions of this message have been removed]

4036. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 17:49:44 UTC
From: Leigh
Topic: 4034 Message: 4036

Daniel,

I have owned both C-Lines and S-Lines (still own my S-Line gear). For the money, the R4C and other Drake receivers are impossible to beat and several ways, IMHO, they out perform the 75S3C (especially the AGC). But, like any radios, the Collins shine as well, albiet differently. Both radios, when properly aligned, are wonderful to operate and perform very nicely.

But you hit the nail on the head when you bring up the mechanical construction and "feel" of the Collins. That is hard to beat in any radio including todays radios. My Collins gear will go to grave with me.

Happy Trails

73 de Mike
K7PI
http://home.comcast.net/~bipi/home.html

----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Saturday, July 31, 2010 10:24 AM
Subject: [DrakeRadio] comparing Drake equipment to Collins ...

I keep reading something that goes like "collectors buy Collins, but real users buy Drake". in the 70's, it seemed only the very rich owned Collins and as a student, I finally found the coins to buy a Drake R4C. the matching T4XC and L4B were not in my reality. I must say that I've never ever sat down and spent time with a 75S3 or KWM2, and so I am left wondering how they actually compare to the Drake experience.

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thoughts?

NF7Z, daniel

[Non-text portions of this message have been removed]

4037. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 18:25:09 UTC
From: Garey Barrell
Topic: 4034 Message: 4037

Daniel -

Others have hit it on the head. The _mechanics_ of the Collins are things of beauty. However, that level of mechanical design is expensive, and in reality does _nothing_ for your ability to pull a signal out of the aether! The Collins circuitry is also elegant, and, operating on a lower B+, has less internally generated noise. This also is nice, but give you no real advantage in 'on the air' operation since the HF bands are limited by _external_ atmospheric noise, not to mention every other &*&^$% piece of electronic junk (junk defined as anything NOT a radio) in our world.

I have _an_ S-Line, several Drake A, B and C Lines, 7 Lines, and an R-8A. The Drake gear is on three (or four) desks, the S-Line is in the closet in boxes. The one I go to FIRST when I want to get on the air is the B-Line. To me this is the epitome of Drake's 'dynasty', fully refined, and before they went all 'solid state' on us! :-) The audio, AVC and ease of use are just RIGHT. I prefer the gentler slopes of the Passband Tuner over the crystal filters of the 'C', but I have developed an 'internal' filter that allows me to find and listen to one CW signal among several. The C-Line MAY be a little better on SSB because of the filter capabilities as it is more difficult to pull one voice out of several.

So... If you need the feel of a fine watch as you tune around the (restricted, 200 kHz) bands of the Collins, more power to you. If you just want to 'get on the radio' and talk to someone, you won't give up a thing by using Drake.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> I keep reading something that goes like "collectors buy Collins, but real users buy Drake". in the 70's, it seemed only the very rich owned Collins and as a student, I finally found the coins to buy a Drake R4C. the matching T4XC and L4B were not in my reality. I must say that I've never ever sat down and spent time with a 75S3 or KWM2, and so I am left wondering how they actually compare to the Drake experience.
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>
> thoughts?
>
> NF7Z, daniel
>
>

4038. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 21:10:33 UTC
From: Richard Knoppow
Topic: 4034 Message: 4038

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 11:25 AM
Subject: Re: [DrakeRadio] comparing Drake equipment to
Collins ...

> Daniel -
>
> Others have hit it on the head. The _mechanics_ of the
> Collins are
> things of beauty. However, that level of mechanical
> design is
> expensive, and in reality does _nothing_ for your
> ability to pull a
> signal out of the aether! The Collins circuitry is also
> elegant, and,
> operating on a lower B+, has less internally generated
> noise. This also
> is nice, but give you no real advantage in 'on the air'
> operation since
> the HF bands are limited by _external_ atmospheric
> noise, not to
> mention every other &*&^$% piece of electronic junk (junk
> defined as
> anything NOT a radio) in our world.
>
> I have _an_ S-Line, several Drake A, B and C Lines, 7
> Lines, and an
> R-8A. The Drake gear is on three (or four) desks, the
> S-Line is in the
> closet in boxes. The one I go to FIRST when I want to get
> on the air is
> the B-Line. To me this is the epitome of Drake's
> 'dynasty', fully
> refined, and before they went all 'solid state' on us!
> :-) The audio,
> AVC and ease of use are just RIGHT. I prefer the gentler
> slopes of the
> Passband Tuner over the crystal filters of the 'C', but I
> have developed
> an 'internal' filter that allows me to find and listen to
> one CW signal
> among several. The C-Line MAY be a little better on SSB
> because of the

> filter capabilities as it is more difficult to pull one
> voice out of
> several.
>
> So... If you need the feel of a fine watch as you tune
> around the
> (restricted, 200 kHz) bands of the Collins, more power to
> you. If you
> just want to 'get on the radio' and talk to someone, you
> won't give up a
> thing by using Drake.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
I remember what happened when Drake came out with their stuff, probably the B line is what I am thinking of. They blew Collins out of the water because they offered comparable performance at about half the price. Collins stuff was built pretty much to JAN standards but Drake equipment has survived all this time and is still being kept and used. I think Art Collins built his business on not compromising quality and was successful selling very up-market, nearly custom, gear to the rich folks during the depths of the depression. He expanded this into military, broadcast, and aviation equipment when these markets would stand the price of deluxe quality. Collins also had innovative engineering such as the famous auto-tuning system, the tunable IF receivers, really a sort of elementary frequency synthesizer, the linear permiability tuned oscillator, and the early adoption of SSB. Drake came along with a different kind of innovation. They found ways of translating the very expensive Collins production methods into much less expensive versions that still had the same level of performance (or sometimes greater). That was a tour de force. Several other manufacturers (Swan for instance) also tried to go head to head with Collins but none seems to have made the place for itself that Drake did.
The history of the companies who supplied communication equipment is interesting because most of the first ones failed after WW-2. They simply did not understand the shifting markets. Hallicrafters did employ some innovative engineering but seems to have just adopted whatever the lastest rage was without sufficient refining and too often had poor mechanical performance. Their object was obviously to provide a lot of features for the price but without enough consideration of actual performance level. Drake was also trying to meet a price window but by offering top quality for a more reasonable price rather than a plethora of features, a very different objective and one which

ultimately proved more successful.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4039. Re: [DrakeRadio] SP75 -- power problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 21:26:32 UTC
From: Richard Knoppow
Topic: 3999 Message: 4039

----- Original Message -----
From: "Terrell Hamilton" <hamilter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 4:59 AM
Subject: RE: [DrakeRadio] SP75 -- power problem

> For all the whipper-snappers -
> in the era of $100 used cars
> (1960, thereabouts) the 49-51
> Chevys were famous for wearing
> out their rings and sending
> blue oil smoke out the
> exhaust. On the plus side,
> they seemed to last forever,
> as long as you put in a quart
> of oil or so each week. (In
> those days, Oil was only 19-29
> cents a qt, as I remember...)
>
> Terry
> K7WLD
> Wenatchee, WA

Well, it reached the point for a while where it cost as much to fill the gas tank in my Toyota as it did for a running used car when I first started to drive. Of course, the money was worth ten to twenty times what it is now. By that standard gasoline is no more expensive now than it was in 1960.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4040. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 22:37:52 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4040

This is an interesting analysis by Richard, and others.

I'm curious if I can tempt you to apply this analysis to more modern, state of the art gear?

The reason I ask is that, in coming back into ham radio after 16 years qrt, I was delighted to read on the net that many modern rigs, with all their features, shouldn't make me feel obliged to go and get one -- that something like an old Drake could still hold it's own very well indeed.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB
_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow [1oldlens1@...]
Sent: July 31, 2010 3:10 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

----- Original Message -----
From: "Garey Barrell" <k4oah@...<mailto:k4oah%40mindspring.com>>
To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
Sent: Saturday, July 31, 2010 11:25 AM
Subject: Re: [DrakeRadio] comparing Drake equipment to
Collins ...

> Daniel -
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> Others have hit it on the head. The _mechanics_ of the
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> Glen Allen, VA
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Richard Knoppow
Los Angeles
WB6KBL
dickburk@...<mailto:dickburk%40ix.netcom.com>

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4041. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:21:48 UTC
From: Leigh
Topic: 4034 Message: 4041

Brenton,

I'll probably be lit up for this but, the Elecraft K3 kicks butt on all of these older radios...and, its kinda built to the Drake standards, i.e., not Collins quality but nice and definitely good enough (plus outstanding customer service). Just my humble opinion. That is not to say these older rigs don't perform well because they do and I enjoy the heck out of using them.

Now, I'd better go hide and put on my hard hat :-)...

73 de Mike
K7PI

----- Original Message -----
From: "Brenton Crowhurst" <brenton.crowhurst@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 3:37 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

> This is an interesting analysis by Richard, and others.
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>
> _____
> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
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> From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of
> Richard Knoppow [1oldlens1@...]
> Sent: July 31, 2010 3:10 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...
>
> ----- Original Message -----
> From: "Garey Barrell"
> <k4oah@...<mailto:k4oah%40mindspring.com>>

> To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Saturday, July 31, 2010 11:25 AM
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>> Glen Allen, VA
>>
> I remember what happened when Drake came out with their
> stuff, probably the B line is what I am thinking of. They
> blew Collins out of the water because they offered
> comparable performance at about half the price. Collins
> stuff was built pretty much to JAN standards but Drake
> equipment has survived all this time and is still being kept
> and used. I think Art Collins built his business on not
> compromising quality and was successful selling very
> up-market, nearly custom, gear to the rich folks during the
> depths of the depression. He expanded this into military,
> broadcast, and aviation equipment when these markets would
> stand the price of deluxe quality. Collins also had
> innovative engineering such as the famous auto-tuning
> system, the tunable IF receivers, really a sort of
> elementary frequency synthesizer, the linear permiability
> tuned oscillator, and the early adoption of SSB. Drake came
> along with a different kind of innovation. They found ways
> of translating the very expensive Collins production methods
> into much less expensive versions that still had the same
> level of performance (or sometimes greater). That was a tour
> de force. Several other manufacturers (Swan for instance)
> also tried to go head to head with Collins but none seems to
> have made the place for itself that Drake did.
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> failed after WW-2. They simply did not understand the
> shifting markets. Hallicrafters did employ some innovative
> engineering but seems to have just adopted whatever the
> lastest rage was without sufficient refining and too often
> had poor mechanical performance. Their object was obviously
> to provide a lot of features for the price but without
> enough consideration of actual performance level. Drake was
> also trying to meet a price window but by offering top
> quality for a more reasonable price rather than a plethora
> of features, a very different objective and one which
> ultimately proved more successful.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...<mailto:dickburk%40ix.netcom.com>

>
>
>
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> Yahoo! Groups Links
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4042. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:22:40 UTC
From: Richard Knoppow
Topic: 4034 Message: 4042

----- Original Message -----
From: "Brenton Crowhurst"
<brenton.crowhurst@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 3:37 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to
Collins ...

> This is an interesting analysis by Richard, and others.
>
> I'm curious if I can tempt you to apply this analysis to
> more modern, state of the art gear?
>
> The reason I ask is that, in coming back into ham radio
> after 16 years qrt, I was delighted to read on the net
> that many modern rigs, with all their features, shouldn't
> make me feel obliged to go and get one -- that something
> like an old Drake could still hold it's own very well
> indeed.
>
I don't know much about the current crop of equipment.
The newest thing I have is a Kenwood TS-520S. Its a nice
little tranceiver but limited compared to the Drake B line
twins I have. The receiver has fixed bandwidth, no notch
filter and no passband tuning. There _is_ a narrow band CW
filter avaialable for it but the BFO frequency is fixed. Its
really intended for use on SSB only. Although new by the
measure of other equipment I have its actually pretty old.
What impresses me about modern gear is how much stuff
it does. Because of integrated circuits and microprocessors
modern receivers often have spectrum analyser displays, all
sorts of variable filtering, presets for everything, lots of
nested menues. Same for the transmitters and transceivers. I
hear lots of bad signals on the air because the user can't
resist playing with the equalizer and compressor settings
and really have no idea what they are doing or what their
rigs sound like.
Also, something like a Drake B or C line or even a TR-7
is supportable by the owner, Certainly Collins S line stuff
is. Modern equipment often depends on custom made LSI chips,
available only from the manuacturer and trouble shooting
digital stuff is a bear at best. Some of it works very well
but I wonder how much will still be around in forty or fifty
years, or, perhaps even in fifteen. All feature heavy like
cars are. I really don't need all that stuff.

Maybe I am just a bit of a Ludite. I earn my living
from digital television. Nearly everything in the plant is
now either a computer outright or a computer disguised as
something else. No one needs to know any basic electronics
anymore. Just how to reboot stuff.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4043. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:24:19 UTC
From: Richard Knoppow
Topic: 4034 Message: 4043

----- Original Message -----
From: "Leigh" <bipi@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 4:21 PM
Subject: Re: [DrakeRadio] comparing Drake equipment to
Collins ...

> Brenton,
>
> I'll probably be lit up for this but, the Elecraft K3
> kicks butt on all of
> these older radios...and, its kinda built to the Drake
> standards, i.e., not
> Collins quality but nice and definitely good enough (plus
> outstanding
> customer service). Just my humble opinion. That is not
> to say these older
> rigs don't perform well because they do and I enjoy the
> heck out of using
> them.
>
> Now, I'd better go hide and put on my hard hat :-)...
>
> 73 de Mike
> K7PI

I will have to search out Elecraft, you are the second
person who has mentioned it favorably recently (can't
remember the other).

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4044. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:30:23 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4044

Mike,

I second your comments about the K3. I have serial #2569 and it works great. Now, I still use my B-Line, TR7A and Omni VI+ a lot as well. If I can only get my %@#@$ Galaxy GT-550A running right, I'd be a happy camper...

73,
Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241
Website: www.pwrone.com

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-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Leigh
Sent: Saturday, July 31, 2010 6:22 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

Brenton,

I'll probably be lit up for this but, the Elecraft K3 kicks butt on all of these older radios...and, its kinda built to the Drake standards, i.e., not Collins quality but nice and definitely good enough (plus outstanding customer service). Just my humble opinion. That is not to say these older rigs don't perform well because they do and I enjoy the heck out of using them.

Now, I'd better go hide and put on my hard hat :-)...

73 de Mike
K7PI

----- Original Message -----
From: "Brenton Crowhurst" <brenton.crowhurst@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 3:37 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

> This is an interesting analysis by Richard, and others.
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> state of the art gear?
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> The reason I ask is that, in coming back into ham radio after 16 years
> qrt, I was delighted to read on the net that many modern rigs, with all
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> something like an old Drake could still hold it's own very well indeed.
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>
> _____
> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
> Calgary, AB
> _____
> From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of

> Richard Knoppow [1oldlens1@...]
> Sent: July 31, 2010 3:10 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...
>
> ----- Original Message -----
> From: "Garey Barrell"
> <k4oah@...<mailto:k4oah%40mindspring.com>>
> To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Saturday, July 31, 2010 11:25 AM
> Subject: Re: [DrakeRadio] comparing Drake equipment to
> Collins ...
>
>> Daniel -
>>
>> Others have hit it on the head. The _mechanics_ of the
>> Collins are
>> things of beauty. However, that level of mechanical
>> design is
>> expensive, and in reality does _nothing_ for your
>> ability to pull a
>> signal out of the aether! The Collins circuitry is also
>> elegant, and,
>> operating on a lower B+, has less internally generated

>> noise. This also
>> is nice, but give you no real advantage in 'on the air'
>> operation since
>> the HF bands are limited by _external_ atmospheric
>> noise, not to
>> mention every other &*&^$% piece of electronic junk (junk
>> defined as
>> anything NOT a radio) in our world.
>>
>> I have _an_ S-Line, several Drake A, B and C Lines, 7
>> Lines, and an
>> R-8A. The Drake gear is on three (or four) desks, the
>> S-Line is in the
>> closet in boxes. The one I go to FIRST when I want to get
>> on the air is
>> the B-Line. To me this is the epitome of Drake's
>> 'dynasty', fully
>> refined, and before they went all 'solid state' on us!
>> :-) The audio,
>> AVC and ease of use are just RIGHT. I prefer the gentler
>> slopes of the
>> Passband Tuner over the crystal filters of the 'C', but I
>> have developed
>> an 'internal' filter that allows me to find and listen to
>> one CW signal
>> among several. The C-Line MAY be a little better on SSB
>> because of the
>> filter capabilities as it is more difficult to pull one
>> voice out of
>> several.
>>
>> So... If you need the feel of a fine watch as you tune
>> around the
>> (restricted, 200 kHz) bands of the Collins, more power to
>> you. If you
>> just want to 'get on the radio' and talk to someone, you
>> won't give up a
>> thing by using Drake.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
> I remember what happened when Drake came out with their
> stuff, probably the B line is what I am thinking of. They
> blew Collins out of the water because they offered
> comparable performance at about half the price. Collins
> stuff was built pretty much to JAN standards but Drake
> equipment has survived all this time and is still being kept
> and used. I think Art Collins built his business on not
> compromising quality and was successful selling very

> up-market, nearly custom, gear to the rich folks during the
> depths of the depression. He expanded this into military,
> broadcast, and aviation equipment when these markets would
> stand the price of deluxe quality. Collins also had
> innovative engineering such as the famous auto-tuning
> system, the tunable IF receivers, really a sort of
> elementary frequency synthesizer, the linear permiability
> tuned oscillator, and the early adoption of SSB. Drake came
> along with a different kind of innovation. They found ways
> of translating the very expensive Collins production methods
> into much less expensive versions that still had the same
> level of performance (or sometimes greater). That was a tour
> de force. Several other manufacturers (Swan for instance)
> also tried to go head to head with Collins but none seems to
> have made the place for itself that Drake did.
> The history of the companies who supplied communication
> equipment is interesting because most of the first ones
> failed after WW-2. They simply did not understand the
> shifting markets. Hallicrafters did employ some innovative
> engineering but seems to have just adopted whatever the
> lastest rage was without sufficient refining and too often
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> to provide a lot of features for the price but without
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> also trying to meet a price window but by offering top
> quality for a more reasonable price rather than a plethora
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> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...<mailto:dickburk%40ix.netcom.com>
>
>
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Yahoo! Groups Links

4045. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:39:26 UTC
From: Bob Spooner
Topic: 4034 Message: 4045

Jim and all,

Radio equipment is like guitars. You're not really a collector until you have more than two of a particular model.

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Saturday, July 31, 2010 7:30 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

Mike,

I second your comments about the K3. I have serial #2569 and it works great. Now, I still use my B-Line, TR7A and Omni VI+ a lot as well. If I can only get my %@#@$ Galaxy GT-550A running right, I'd be a happy camper...

73,
Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241
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-----Original Message-----
From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
] On
Behalf Of Leigh
Sent: Saturday, July 31, 2010 6:22 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

Brenton,

I'll probably be lit up for this but, the Elecraft K3 kicks butt on all
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these older radios...and, its kinda built to the Drake standards, i.e.,
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using
them.

Now, I'd better go hide and put on my hard hat :-)...

73 de Mike
K7PI

----- Original Message -----
From: "Brenton Crowhurst" <brenton.crowhurst@...
<mailto:brenton.crowhurst%40albertahealthservices.ca> >
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Saturday, July 31, 2010 3:37 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

> This is an interesting analysis by Richard, and others.
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> The reason I ask is that, in coming back into ham radio after 16 years

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>
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> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
> Calgary, AB
> _____
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of

> Richard Knoppow [1oldlens1@...
<mailto:1oldlens1%40ix.netcom.com>]
> Sent: July 31, 2010 3:10 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...
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> ----- Original Message -----
> From: "Garey Barrell"
> <k4oah@... <mailto:k4oah%40mindspring.com>
<mailto:k4oah%40mindspring.com>>
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
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> Sent: Saturday, July 31, 2010 11:25 AM
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> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@... <mailto:dickburk%40ix.netcom.com>
<mailto:dickburk%40ix.netcom.com>
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

4046. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-07-31 23:39:47 UTC
From: William Houghton
Topic: 4034 Message: 4046

Jim,

Is that the PowerOne power supply people?

73,

Bill, WA6NEQ

From: Jim Chaggaris <jimc@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, July 31, 2010 4:30:23 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

Mike,

I second your comments about the K3. I have serial #2569 and it works great. Now, I still use my B-Line, TR7A and Omni VI+ a lot as well. If I can only get my %@#@$ Galaxy GT-550A running right, I'd be a happy camper...

73,
Jim N9WW

James Chaggaris
President
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Sent: Saturday, July 31, 2010 6:22 PM

To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

Brenton,

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Now, I'd better go hide and put on my hard hat :-)...

73 de Mike
K7PI

----- Original Message -----
From: "Brenton Crowhurst" <brenton.crowhurst@albertahealthservices.ca>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 31, 2010 3:37 PM
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

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> Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...
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>> So... If you need the feel of a fine watch as you tune
>> around the
>> (restricted, 200 kHz) bands of the Collins, more power to
>> you. If you
>> just want to 'get on the radio' and talk to someone, you

>> won't give up a
>> thing by using Drake.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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> I remember what happened when Drake came out with their
> stuff, probably the B line is what I am thinking of. They
> blew Collins out of the water because they offered
> comparable performance at about half the price. Collins
> stuff was built pretty much to JAN standards but Drake
> equipment has survived all this time and is still being kept
> and used. I think Art Collins built his business on not
> compromising quality and was successful selling very
> up-market, nearly custom, gear to the rich folks during the
> depths of the depression. He expanded this into military,
> broadcast, and aviation equipment when these markets would
> stand the price of deluxe quality. Collins also had
> innovative engineering such as the famous auto-tuning
> system, the tunable IF receivers, really a sort of
> elementary frequency synthesizer, the linear permiability
> tuned oscillator, and the early adoption of SSB. Drake came
> along with a different kind of innovation. They found ways
> of translating the very expensive Collins production methods
> into much less expensive versions that still had the same
> level of performance (or sometimes greater). That was a tour
> de force. Several other manufacturers (Swan for instance)
> also tried to go head to head with Collins but none seems to
> have made the place for itself that Drake did.
> The history of the companies who supplied communication
> equipment is interesting because most of the first ones
> failed after WW-2. They simply did not understand the
> shifting markets. Hallicrafters did employ some innovative
> engineering but seems to have just adopted whatever the
> lastest rage was without sufficient refining and too often
> had poor mechanical performance. Their object was obviously
> to provide a lot of features for the price but without
> enough consideration of actual performance level. Drake was
> also trying to meet a price window but by offering top
> quality for a more reasonable price rather than a plethora
> of features, a very different objective and one which
> ultimately proved more successful.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...<mailto:dickburk%40ix.netcom.com>
>
>

>
>
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> disclosure is strictly prohibited. If you have received this message in
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> Yahoo! Groups Links
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

4047. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:04:20 UTC
From: Jim Shorney
Topic: 4034 Message: 4047

On Sat, 31 Jul 2010 16:21:48 -0700, Leigh wrote:

>
>I'll probably be lit up for this but, the Elecraft K3 kicks butt on all of
>these older radios...

I've heard good things about the K3, but I have never had the chance to operate one. I would welcome a modern radio that is as pleasurable to operate as a vintage Drake.

What it's all about for me is the receiver. How does it sound, how does the AGC work on your ears, how easy is it to dig signals out of a crowded band, do the electronics "get in the way" of the signal? How do you feel after several hours of contesting? Leaving a rig with a splitting headache is enough to turn one off to a brand for years. The Japanese seem to have problems getting the ACG right, and the signals sound all squashed up against a glass wall to me (I'm leaving Ten-Tec and Elecraft out of these comments as I have no experience with them). On a decent vintage rig, the band "breathes". There is space between signals. The audio is easy on the ears. Maybe recent offerings have gotten better, I don't know.

This presentation by Rob Sherwood is interesting reading:

http://www.sherweng.com/documents/Dayton2007w.pdf

Some of you have seen this already.... :)

On the transmit side, they also tend to do the ALC wrong in newer rigs, as described here:

http://www.sm5bsz.com/dynrange/alc.htm

Makes me want to run right out and buy one! I remember hearing tales about hams spending literally hours and hours tweaking and tuning to get the best sounding, cleanest possible signal on the air. Now, it seems the tendency is to just buy a box and hook up an antenna.

Bells and whistles are sure cool, but I wonder how much of that stuff most people really use?

So, how does it SOUND?

73

-Jim

--
Ham Radio NU0C

Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4048. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:07:04 UTC
From: Jim Shorney
Topic: 4034 Message: 4048

On Sat, 31 Jul 2010 18:30:23 -0500, Jim Chaggaris wrote:

> If I
>can only get my %@#@$ Galaxy GT-550A running right, I'd be a happy camper...

What's up with the Galaxy? I've got one, they can be a little quirky.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4049. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:24:37 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4049

Hi Jim,

Quirky is an understatement hi hi. Just got done recapping the PS, replaced all electrolytics and 1W/2W resistors. Overhauled the AVC board completely. Probably need to do a complete alignment now as it's fine on 40/80M but deaf on 20 on down. Definitely not a Drake hi hi...

73,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630)-443-6500
Fax: (630)-443-6505

-----Original Message-----
From: "Jim Shorney" <jshorney@...>
Sent: Saturday, July 31, 2010 7:07pm
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Subject: RE: [DrakeRadio] comparing Drake equipment to Collins ...

On Sat, 31 Jul 2010 18:30:23 -0500, Jim Chaggaris wrote:

> If I
>can only get my %@#@$ Galaxy GT-550A running right, I'd be a happy camper...

What's up with the Galaxy? I've got one, they can be a little quirky.

73

-Jim

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Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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[http://incolor.inetnebr.com/jshorney] http://incolor.inetnebr.com/jshorney
[http://www.nebraskaghosts.org/] http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

4050. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:27:20 UTC
From: Jim Shorney
Topic: 4034 Message: 4050

On Sat, 31 Jul 2010 19:24:37 -0500 (CDT), Jim Chaggaris wrote:

>Quirky is an understatement hi hi. Just got done recapping the PS, replaced all electrolytics and 1W/2W resistors. Overhauled the AVC board completely. Probably need to do a complete alignment now as it's fine on 40/80M but deaf on 20 on down. Definitely not a Drake hi hi...

Definitely, and radio that old can benefit from a full alignment. I need to get mine back on the bench someday, I seem to have a gain problem somewhere in the IF.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4051. Drake and guitar amps ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:29:38 UTC
From: arsnf7z
Topic: 4034 Message: 4051

there is little argument that modern radios out-perform Drake and Collins in many areas (though my R4C is more sensitive and pleasurable to operate than my Icom). for me, watching the colour analyzer screen gets old rather quickly and one should realize how much you had to pay for that 'feature'. I should say, I am *not* a contester.

I used to own a guitar amplifier company, did guitar amp design, and worked with Carlos Santana to build the 'ultimate amplifier'. well, I have that amplifer sitting at home in a closet. Carlos is a spiritual guy and his guru told him to simplify. to get back to the essence of 'tone'. and so, he didn't want reverb, nor channel switching, or solid-state EQ ... just a pair (or two) of screamin' 6L6's. a stock Mesa Boogie Mark I with dymo labels! and I have to admit, that there was a quality that always felt adulterated when trying to get more complexity out of something so pure and simple.

I guess that is how I am feeling about my Drakes. they don't do everything, but when you turn them to '11', they crank and are a blast to play.

NF7Z

4052. Re: [DrakeRadio] Drake and guitar amps ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:37:10 UTC
From: Jim Shorney
Topic: 4034 Message: 4052

On Sun, 01 Aug 2010 00:29:38 -0000, arsnf7z wrote:

>I guess that is how I am feeling about my Drakes. they don't do everything, but when you turn them to '11', they crank and are a blast to play.

Well said.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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4053. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 00:53:41 UTC
From: Paul Pollock
Topic: 4034 Message: 4053

Hi Brenton Crowhurst,

I know I'll probably be burnt at the stake for this, but you have posted an interesting line of thought.

My day to day radio is a Yaesu FT-450. It's small, light weight, hears well, has an excellent DSP (for the price), and the transmitter seems to do everything that is expected. Not to mention that it has all those modern things that make it a great tune-and-go radio <grin>. My only complaints are that the built-in speaker is complete rubbish (but nobody relies on the internal speaker anymore anyhow, right)? And the adjacent QRM figure could be better.

But when I really want a treat, and can appreciate the audio from a tube rig, I switch over to my TR-4. It is cantankerous, I have to wait for a good stable warmup, scares the heck out of me when I see a "tune-up" at 200-watts (on a 40-year old radio), and I can use it to warm my coffee (sometimes can make coffee if I'm talking a long time <grin>).
But the noise blanker in it is the best I've run into, the audio is simply gorgeous, and the transmitted audio from it (via my Shure 450) is said to be just beautiful. Anything I can hear on my Yaesu, I often hear at least as well on the Drake (I think the quieting curve is better on the Drake), and QRM from adjacent signals is just plain nonexistent. And it is not as subject to certain kinds of ground-phase electrical noises as my solid-state radio, because of the relatively higher voltages running around in it.

And there's another benefit, both radios need 300-watts for transmission. But the Yaesu makes 100-watts PEP, while the Drake TR-4 will make almost 200-watts PEP. And that sometimes helps on noisy nights <grin>!

And lest we forget, I have about $1000 invested in my Yaesu station. I have about $500 in my Drake station (TR-4, RV-3, AC-4 [rebuilt]). If I had known the price differential, when I started, I might have gone tube radio when I started <grin>.

-Paul Pollock
KD7BWB

On Jul 31, 2010, at 3:37 PM, Brenton Crowhurst wrote:

> This is an interesting analysis by Richard, and others.
>
> I'm curious if I can tempt you to apply this analysis to more modern, state of the art gear?
>
> The reason I ask is that, in coming back into ham radio after 16 years qrt, I was delighted to read on the net that many modern rigs, with all their features, shouldn't make me feel obliged to go and get one -- that something like an old Drake could still hold it's own very well indeed.
>
>

> _____
> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
> Calgary, AB
> _____
> From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow [1oldlens1@...]
> Sent: July 31, 2010 3:10 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...<mailto:k4oah%40mindspring.com>>
> To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Saturday, July 31, 2010 11:25 AM
> Subject: Re: [DrakeRadio] comparing Drake equipment to
> Collins ...
>
>> Daniel -
>>
>> Others have hit it on the head. The _mechanics_ of the
>> Collins are
>> things of beauty. However, that level of mechanical
>> design is
>> expensive, and in reality does _nothing_ for your
>> ability to pull a
>> signal out of the aether! The Collins circuitry is also
>> elegant, and,
>> operating on a lower B+, has less internally generated
>> noise. This also
>> is nice, but give you no real advantage in 'on the air'
>> operation since
>> the HF bands are limited by _external_ atmospheric
>> noise, not to
>> mention every other &*&^$% piece of electronic junk (junk
>> defined as
>> anything NOT a radio) in our world.
>>
>> I have _an_ S-Line, several Drake A, B and C Lines, 7
>> Lines, and an
>> R-8A. The Drake gear is on three (or four) desks, the
>> S-Line is in the
>> closet in boxes. The one I go to FIRST when I want to get
>> on the air is
>> the B-Line. To me this is the epitome of Drake's
>> 'dynasty', fully
>> refined, and before they went all 'solid state' on us!
>> :-) The audio,
>> AVC and ease of use are just RIGHT. I prefer the gentler

>> slopes of the
>> Passband Tuner over the crystal filters of the 'C', but I
>> have developed
>> an 'internal' filter that allows me to find and listen to
>> one CW signal
>> among several. The C-Line MAY be a little better on SSB
>> because of the
>> filter capabilities as it is more difficult to pull one
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>> several.
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>> So... If you need the feel of a fine watch as you tune
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> equipment has survived all this time and is still being kept
> and used. I think Art Collins built his business on not
> compromising quality and was successful selling very
> up-market, nearly custom, gear to the rich folks during the
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> also tried to go head to head with Collins but none seems to
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> The history of the companies who supplied communication
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> shifting markets. Hallicrafters did employ some innovative
> engineering but seems to have just adopted whatever the

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> Yahoo! Groups Links
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4054. RE: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 01:21:57 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4054

Well, Fellows,

I'm really enjoying all your thoughts -- some of you have chanced a flaming to give a response, and yet, none has yet even suffered even a scalding from a hot tube!

Richard's post got me thinking, on account of a few things that led me to Drake.

Last year, I "updated" my hi fi by going ahead to the past: Dynakit power amp but with a modern driver board, and tube pre-amp and phono amp, and I've been thrilled with the "tube sound" of it.

I wondered, in getting back to this hobby if it could be similar? From reviews I was reading on eHam, I was getting the impression that DSP was not essential, that an outboard DSP filter could be quite good if I wanted to try it, and that the Drakes were still really great radios. Then I chatted with a couple fellows from the list here who strongly affirmed those views, so I was sold.

It's a quite a vivid picture Richard paints of self indulgent excess gadgetry that seems to be there for the sake of itself in some radios, without a really good concept behind it, or without adequate execution. Maybe I'm taking liberties with what he was saying about some of the would-be competitors with Collins. It gets back to my stereo analogy, what one of you said, about how does it sound, or how does it work? I woulnd't but a graphic equalizer in my stereo system -- for all that it's supposed to "do", at the end of the day, lots of folks think those things just introduce a lot of problems.

(Not that I'm taking a poke at any of you who might be into this ham audio equalizing gig.)

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Paul Pollock [pbell3@...]
Sent: July 31, 2010 6:53 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

Hi Brenton Crowhurst,

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My day to day radio is a Yaesu FT-450. It's small, light weight, hears well, has an excellent DSP (for the price), and the transmitter seems to do everything that is expected. Not to mention that it has all those modern things that make it a great tune-and-go radio

<grin>. My only complaints are that the built-in speaker is complete rubbish (but nobody relies on the internal speaker anymore anyhow, right)? And the adjacent QRM figure could be better.

But when I really want a treat, and can appreciate the audio from a tube rig, I switch over to my TR-4. It is cantankerous, I have to wait for a good stable warmup, scares the heck out of me when I see a "tune-up" at 200-watts (on a 40-year old radio), and I can use it to warm my coffee (sometimes can make coffee if I'm talking a long time <grin>).
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And there's another benefit, both radios need 300-watts for transmission. But the Yaesu makes 100-watts PEP, while the Drake TR-4 will make almost 200-watts PEP. And that sometimes helps on noisy nights <grin>!

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[DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>] On Behalf Of Richard Knoppow [1oldlens1@...<mailto:1oldlens1%40ix.netcom.com>]
> Sent: July 31, 2010 3:10 PM
> To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
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> ----- Original Message -----

> From: "Garey Barrell"
<k4oah@...<mailto:k4oah%40mindspring.com><mailto:k4oah%40mindspring.com>>
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> The history of the companies who supplied communication
> equipment is interesting because most of the first ones
> failed after WW-2. They simply did not understand the
> shifting markets. Hallicrafters did employ some innovative
> engineering but seems to have just adopted whatever the
> lastest rage was without sufficient refining and too often
> had poor mechanical performance. Their object was obviously
> to provide a lot of features for the price but without
> enough consideration of actual performance level. Drake was
> also trying to meet a price window but by offering top
> quality for a more reasonable price rather than a plethora
> of features, a very different objective and one which
> ultimately proved more successful.
>
> --
> Richard Knoppow

> Los Angeles
> WB6KBL
> dickburk@...<mailto:dickburk%40ix.netcom.com><mailto:dickburk%40ix.netcom.com>
>
>
>
>
> This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.
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> Yahoo! Groups Links
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This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4055. Re: [DrakeRadio] comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 02:04:13 UTC
From: Leigh
Topic: 4034 Message: 4055

Very good discussion...I've even taken my hard hat off!

Audio...yes, audio is the most distinctive area where the Drake and Collins gear shine. My K3 is a performer. You can adjust every little thing from AGC rise and decay and audio spectrum to a 1000 other things. I like it. In CQWW on the low end of 40 or 80 (I don't do 160) it kicks absolute butt over anything I've ever used. The filters and AGC are outstanding.

Now on to the audio....into a quality set of headphones the audio is very good, clean and clear. But, through a speaker I'd have to say (for whatever reason) it is not so good and compared to listening to the 75S3C or an R4C (or my 51S1), it is not magical. I am fortunate to have both. To me, there is no more pleasing sound than to listen to my old tube gear on a signal over the North pole with arctic flutter. It is magical. The K3 out performs and is truly superior but when the dials on a old Collins or Drake are lit up and the magical sound is coming through that speaker, well, it is truly magical. But, for serious operating....the K3 is the obvious choice.

It also amazes me how many old radio guys are guitar guys too. I have 2 beautiful old vintage guitars that I play regularly and a couple from the present era :-)....

OK, I've weighed in and now I'll check out..

Happy Trails

de Mike
K7PI
Mercer Island, WA
http://home.comcast.net/~bipi/home.html

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Saturday, July 31, 2010 5:04 PM
Subject: Re: [DrakeRadio] comparing Drake equipment to Collins ...

On Sat, 31 Jul 2010 16:21:48 -0700, Leigh wrote:

>
>I'll probably be lit up for this but, the Elecraft K3 kicks butt on all of
>these older radios...

I've heard good things about the K3, but I have never had the chance to operate one. I would welcome a modern radio that is as pleasurable to operate as a vintage Drake.

What it's all about for me is the receiver. How does it sound, how does the AGC work on your ears, how easy is it to dig signals out of a crowded band, do the electronics "get in the way" of the signal? How do you feel after several hours

of contesting? Leaving a rig with a splitting headache is enough to turn one off to a brand for years. The Japanese seem to have problems getting the ACG right, and the signals sound all squashed up against a glass wall to me (I'm leaving Ten-Tec and Elecraft out of these comments as I have no experience with them). On a decent vintage rig, the band "breathes". There is space between signals. The audio is easy on the ears. Maybe recent offerings have gotten better, I don't know.

This presentation by Rob Sherwood is interesting reading:

http://www.sherweng.com/documents/Dayton2007w.pdf

Some of you have seen this already.... :)

On the transmit side, they also tend to do the ALC wrong in newer rigs, as described here:

http://www.sm5bsz.com/dynrange/alc.htm

Makes me want to run right out and buy one! I remember hearing tales about hams spending literally hours and hours tweaking and tuning to get the best sounding, cleanest possible signal on the air. Now, it seems the tendency is to just buy a box and hook up an antenna.

Bells and whistles are sure cool, but I wonder how much of that stuff most people really use?

So, how does it SOUND?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

4056. Re: comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 04:25:17 UTC
From: w6ou
Topic: 4034 Message: 4056

I've owned a KWM-2A and a TR4CW. The one thing that bugs me about the Drake is it tunes backwards on all bands except 20 meters.

4057. Re: [DrakeRadio] Re: comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 13:24:40 UTC
From: Garey Barrell
Topic: 4034 Message: 4057

w6ou wrote:
> I've owned a KWM-2A and a TR4CW. The one thing that bugs me about the Drake is it tunes backwards on all bands except 20 meters.
>

Or, for a "true" Drake user, it tunes backwards on 20M! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

4058. Re: [DrakeRadio] Re: comparing Drake equipment to Collins ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-01 18:22:09 UTC
From: LEE BAHR
Topic: 4034 Message: 4058

Maybe turning the radio upside down will help. :-)

Lee, w0vt

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Sunday, August 01, 2010 8:24 AM
Subject: Re: [DrakeRadio] Re: comparing Drake equipment to Collins ...

w6ou wrote:
> I've owned a KWM-2A and a TR4CW. The one thing that bugs me about the Drake is it tunes backwards on all bands except 20 meters.
>

Or, for a "true" Drake user, it tunes backwards on 20M! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

4059. Need some Informations for Drake Parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-02 22:20:52 UTC
From: Hans-Joachim Empel
Topic: 4059 Message: 4059

Good Afternoon to the Group ,

i am writing from Germany and i need some Informations for some Drake Parts.

I am owning a Drake SPR - 4 Receiver in excellent conditions.

For this receiver i am looking for a frequency synthesizer like the FS-4 ore a modern version of the FS - 4.

Also i am looking for a frequency counter for my SPR - 4.

If somebody can give me some informations how to buy this parts , i am verry happy.

Here in Europe its nearly impossible to get some Informations for buying this parts.

EBAY is not the way the most parts are much to expensive ore in not that good quality.

The SPR - 4 is a great receiver and in some parts better as all the modern receivers.

With the FS - 4 and the Freq.Counter i want to modify my SPR - 4 and will use this receiver for another long periode.

Every Information is welcome.

Thanks for the help

Kind Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4060. Drake 2B 30/17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-03 15:32:33 UTC
From: phil_ad5x
Topic: 4060 Message: 4060

Just joined the group, so I don't know if this has been mentioned before. If you plug a 14.1 MHz crystal into the "C" socket, it'll get you 30 meters (10.5-10 MHz) and 17 meters (17.5-18.2 MHz). The 2B is a great receiver.

I've also just added a QSK T/R switch construction project in the "Articles" section of my website (www.ad5x.com) that is easy to build and works great. I use it with my Johnson Ranger/Drake 2B set-up.

Phil - AD5X

4061. Re: [DrakeRadio] Drake 2B 30/17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 01:26:09 UTC
From: John Daly
Topic: 4060 Message: 4061

Hi Phil - any source you might recommend for the 14.1mhz xtal for the Drake 2b - I have two any they are great cw rcvrs.

73 John WA9WHD (Lutz, FL)

Sent from my iPod

On Aug 3, 2010, at 11:32 AM, "phil_ad5x" <ad5x@...> wrote:

Just joined the group, so I don't know if this has been mentioned before. If you plug a 14.1 MHz crystal into the "C" socket, it'll get you 30 meters (10.5-10 MHz) and 17 meters (17.5-18.2 MHz). The 2B is a great receiver.

I've also just added a QSK T/R switch construction project in the "Articles" section of my website (www.ad5x.com) that is easy to build and works great. I use it with my Johnson Ranger/Drake 2B set-up.

Phil - AD5X

[Non-text portions of this message have been removed]

4062. Re: Drake 2B 30/17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 02:09:39 UTC
From: phil_ad5x
Topic: 4060 Message: 4062

I get all my crystals from ICM, www.icmfg.com. Great bunch of folks. Just tell them it is for a Drake 2B (or whatever radio you have) and they'll provide the exact crystal necessary with all the correct parameters.

Phil - AD5X

--- In DrakeRadio@yahoogroups.com, John Daly <wa9whd@...> wrote:
>
> Hi Phil - any source you might recommend for the 14.1mhz xtal for the Drake 2b - I have two any they are great cw rcvrs.
>
> 73 John WA9WHD (Lutz, FL)
>
> Sent from my iPod
>
> On Aug 3, 2010, at 11:32 AM, "phil_ad5x" <ad5x@...> wrote:
>
> Just joined the group, so I don't know if this has been mentioned before. If you plug a 14.1 MHz crystal into the "C" socket, it'll get you 30 meters (10.5-10 MHz) and 17 meters (17.5-18.2 MHz). The 2B is a great receiver.
>
> I've also just added a QSK T/R switch construction project in the "Articles" section of my website (www.ad5x.com) that is easy to build and works great. I use it with my Johnson Ranger/Drake 2B set-up.
>
> Phil - AD5X
>
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>
> [Non-text portions of this message have been removed]
>

4063. Re: [DrakeRadio] Re: Drake 2B 30/17 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 02:12:56 UTC
From: John Daly
Topic: 4060 Message: 4063

Thanks Phil - 73 John WA9WHD

Sent from my iPod

On Aug 3, 2010, at 10:09 PM, "phil_ad5x" <ad5x@...> wrote:

I get all my crystals from ICM, www.icmfg.com. Great bunch of folks. Just tell them it is for a Drake 2B (or whatever radio you have) and they'll provide the exact crystal necessary with all the correct parameters.

Phil - AD5X

--- In DrakeRadio@...m, John Daly <wa9whd@...> wrote:
>
> Hi Phil - any source you might recommend for the 14.1mhz xtal for the Drake 2b - I have two any they are great cw rcvrs.
>
> 73 John WA9WHD (Lutz, FL)
>
> Sent from my iPod
>
> On Aug 3, 2010, at 11:32 AM, "phil_ad5x" <ad5x@...> wrote:
>
> Just joined the group, so I don't know if this has been mentioned before. If you plug a 14.1 MHz crystal into the "C" socket, it'll get you 30 meters (10.5-10 MHz) and 17 meters (17.5-18.2 MHz). The 2B is a great receiver.
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> I've also just added a QSK T/R switch construction project in the "Articles" section of my website (www.ad5x.com) that is easy to build and works great. I use it with my Johnson Ranger/Drake 2B set-up.
>
> Phil - AD5X
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4064. L4PS serial number

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 14:27:03 UTC
From: David
Topic: 4064 Message: 4064

Hi, I'm looking for an answer to a nagging question: My L4PS sn is 142X. This sn is not consistant with the standard sequence of at least 4 numbers I've seen and there are no "x's" shown on the wb4hfn web site. Anyone know the answer? Is this an early or late supply? Mine works fine, and I've rebuilt it a couple years back with new boards, caps, resistors and all from Harbach. Just curious about the sn.
Thanks,
David
Wd9cmd

4065. Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 15:04:37 UTC
From: w1fued@sbcglobal.net
Topic: 4065 Message: 4065

Ok, its not a Drake question, but I bet a lot of you will know the answer

What color was the cabinet of the Jonson 122 VFO?

I have picked up one for use with my 2-b and Johnson Adventurer and the cabinet is (a beat up) black wrinkle paint. Was this the original finish or was it Johnson color and been repainted?

Thanks,
Ed

4066. Re: [DrakeRadio] Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 16:03:36 UTC
From: amfone
Topic: 4065 Message: 4066

I'm looking at one and would call it a shade of gray.

Tim
WB8UHZ

From: "w1fued@..." <w1fued@sbcglobal.net>
To: DrakeRadio@yahoogroups.com
Sent: Wed, August 4, 2010 11:04:37 AM
Subject: [DrakeRadio] Johnson 122 vfo

Ok, its not a Drake question, but I bet a lot of you will know the answer

What color was the cabinet of the Jonson 122 VFO?

I have picked up one for use with my 2-b and Johnson Adventurer and the cabinet is (a beat up) black wrinkle paint. Was this the original finish or was it Johnson color and been repainted?

Thanks,
Ed

[Non-text portions of this message have been removed]

4067. Re: [DrakeRadio] L4PS serial number

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 16:22:47 UTC
From: Bill Frost
Topic: 4064 Message: 4067

Hello David,

The "X" in the serial number is usually an indicator that the product is a prototype model, or a product made to remain in house for testing or demonstrations, etc. If I remember correctly the "X" in the L-4PS serial number indicated it had a different power transformer.

73, Bill

--- On Wed, 8/4/10, David <drakes@...> wrote:

> From: David <drakes@psci.net>
> Subject: [DrakeRadio] L4PS serial number
> To: DrakeRadio@yahoogroups.com
> Date: Wednesday, August 4, 2010, 10:27 AM
> Hi, I'm looking for an answer to a
> nagging question: My L4PS sn is 142X. This sn is not
> consistant with the standard sequence of at least 4 numbers
> I've seen and there are no "x's" shown on the wb4hfn web
> site. Anyone know the answer? Is this an early
> or late supply? Mine works fine, and I've rebuilt it a
> couple years back with new boards, caps, resistors and all
> from Harbach. Just curious about the sn.
> Thanks,
> David
> Wd9cmd
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

4068. Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 15:16:15 UTC
From: Dennis Weal
Topic: 4065 Message: 4068

subject=Johnson 122 vfo
☐
Mine was a nasty black wrinkle also. At least what was left of it. Large areas of the paint had fallen off.
I could find no indication that any primer had ever been applied.

[Non-text portions of this message have been removed]

4069. Re: [DrakeRadio] Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 17:42:27 UTC
From: LEE BAHR
Topic: 4065 Message: 4069

It was wrinkle finish Maroon in color.

Lee, w0vt

----- Original Message -----
From: w1fued@...
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, August 04, 2010 10:04 AM
Subject: [DrakeRadio] Johnson 122 vfo

Ok, its not a Drake question, but I bet a lot of you will know the answer

What color was the cabinet of the Jonson 122 VFO?

I have picked up one for use with my 2-b and Johnson Adventurer and the cabinet is (a beat up) black wrinkle paint. Was this the original finish or was it Johnson color and been repainted?

Thanks,
Ed

[Non-text portions of this message have been removed]

4070. Re: [DrakeRadio] Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 17:54:10 UTC
From: LEE BAHR
Topic: 4065 Message: 4070

I might add. I have three of them here. They are all original and maroon in color. E.F. Johnson used this color on most of their boat anchors until they switched to a medium gray color. Some of their gear had a wrinkle finish and others had a smooth surface but still maroon in color. The Viking l had a wrinkle finish and used this VFO however, the Viking ll which also used this VFO had a smooth maroon finish.
Lee, w0vt

----- Original Message -----
From: LEE BAHR
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, August 04, 2010 12:42 PM
Subject: Re: [DrakeRadio] Johnson 122 vfo

It was wrinkle finish Maroon in color.

Lee, w0vt

----- Original Message -----
From: w1fued@...
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, August 04, 2010 10:04 AM
Subject: [DrakeRadio] Johnson 122 vfo

Ok, its not a Drake question, but I bet a lot of you will know the answer

What color was the cabinet of the Jonson 122 VFO?

I have picked up one for use with my 2-b and Johnson Adventurer and the cabinet is (a beat up) black wrinkle paint. Was this the original finish or was it Johnson color and been repainted?

Thanks,
Ed

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4071. Re: [DrakeRadio] Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-04 18:09:34 UTC
From: Garey Barrell
Topic: 4065 Message: 4071

Lee -

Agreed. The problem is that the original paint was so poorly applied
that a large percentage of Johnson gear has been repainted. I was
convinced that the Viking I was black wrinkle because the first FOUR I
saw 'in person' were black wrinkle!!

I have three or four 122's, and only one is the maroon color. The
maroon could easily be mistaken for black when it's really dirty!!

Plasti-Kote GM7191 is a close match, NAPA or other auto supply store.

Duplicolor "GM 353 Dark Red M"

or

Sherwin-Williams

oz 32 64 128
B1 Black - 22 - -
R3 Magenta - 6 - -
R4 New Red - 8 - -

For One Quart Ultra deep base.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

LEE BAHR wrote:
> I might add. I have three of them here. They are all original and maroon in color. E.F. Johnson used this color on most of their boat anchors until they switched to a medium gray color. Some of their gear had a wrinkle finish and others had a smooth surface but still maroon in color. The Viking l had a wrinkle finish and used this VFO however, the Viking ll which also used this VFO had a smooth maroon finish.
> Lee, w0vt
>
>
> ----- Original Message -----
> From: LEE BAHR
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, August 04, 2010 12:42 PM
> Subject: Re: [DrakeRadio] Johnson 122 vfo
>
>
>

> It was wrinkle finish Maroon in color.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: w1fued@...
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, August 04, 2010 10:04 AM
> Subject: [DrakeRadio] Johnson 122 vfo
>
> Ok, its not a Drake question, but I bet a lot of you will know the answer
>
> What color was the cabinet of the Jonson 122 VFO?
>
> I have picked up one for use with my 2-b and Johnson Adventurer and the cabinet is (a beat up) black wrinkle paint. Was this the original finish or was it Johnson color and been repainted?
>
> Thanks,
> Ed
>
>
>

4072. Re: Johnson 122 vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-05 10:59:41 UTC
From: phil_ad5x
Topic: 4065 Message: 4072

I found that Rustoleum Painter's Touch Kona Brown Gloss #1977 spray paint (available from Home Depot) is an EXACT match to the original paint used on the Johnson cabinet. I repainted my Johnson Ranger cabinet with this and it looks new.

Phil - AD5X

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> subject=Johnson 122 vfo
> ï»¿
> Mine was a nasty black wrinkle also. At least what was left of it. Large areas of the paint had fallen off.
> I could find no indication that any primer had ever been applied.
>
>
> [Non-text portions of this message have been removed]
>

4073. Top Cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-05 14:27:53 UTC
From: w5rkl
Topic: 4073 Message: 4073

I'm working on an earlier version R4C receiver (3 MODE switch filter settings). It wasn't taken care of by one or more previous owners, which is to say it's in fair condition.

Does anyone have a spare top cover from any of the R4<any>/T4X<any> series receivers and transmitters they would consider selling?

73s
Mike
W5RKL

4074. Some Informations about DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-06 04:33:16 UTC
From: Hans-Joachim Empel
Topic: 4074 Message: 4074

Good Morning to the Group ,

i am writing from Germany and i need some Informations for some Drake Parts.

I am owning a Drake SPR - 4 Receiver in excellent conditions.

For this receiver i am looking for a frequency synthesizer like the FS-4 ore a modern version of the FS - 4.

Also i am looking for a frequency counter for my SPR - 4.

If somebody can give me some informations how to buy this parts , i am very happy.

Here in Europe its nearly impossible to get some Informations for buying this parts.

EBAY is not the way the most parts are much to expensive ore in not that good quality.

The SPR - 4 is a great receiver and in some parts better as all the modern receivers.

With the FS - 4 and the Freq.Counter i want to modify my SPR - 4 and will use this receiver for another long periode.

Every Information is welcome.

Thanks for the help

Kind Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4075. Re: [DrakeRadio] Some Informations about DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-06 14:00:42 UTC
From: Garey Barrell
Topic: 4074 Message: 4075

Joachim -

The AADE DFD1-Drake would work for a digital readout at $50 for the kit.

<http://www.aade.com/#dfd>

I don't know of a direct replacement for the FS-4. There were not many
sold originally, so the few available demand a fairly high price.

One possibility that might be modified to do the job would be the K5BCQ
Kit #2

<http://www.qsl.net/k5bcq/Kits/Kits.html>

It would require a little modification and packaging, but I believe
would work just fine. At $40 for the kit, it's considerably cheaper
than an FS-4!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> Good Morning to the Group ,
>
> i am writing from Germany and i need some Informations for some Drake Parts.
>
> I am owning a Drake SPR - 4 Receiver in excellent conditions.
>
> For this receiver i am looking for a frequency synthesizer like the FS-4 ore a modern
version of the FS - 4.
>
> Also i am looking for a frequency counter for my SPR - 4.
>
> If somebody can give me some informations how to buy this parts , i am very happy.
>
> Here in Europe its nearly impossible to get some Informations for buying this parts.
>
> EBAY is not the way the most parts are much to expensive ore in not that good quality.
>
> The SPR - 4 is a great receiver and in some parts better as all the modern receivers.
>
> With the FS - 4 and the Freq.Counter i want to modify my SPR - 4 and will use this
receiver for another long periode.
>

> Every Information is welcome.
>
> Thanks for the help
>
> Kind Regards from Germany
>
> Joachim
>
> DL2388RB
>
>
>

4076. Re: [DrakeRadio] Some Informations about DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-06 14:37:06 UTC
From: Dennis Weal
Topic: 4074 Message: 4076

Not too bad a deal since the AADE DFD1-Drake would cost 37,93 Euros and the K5BCQ Kit-2 would be 30,34 Euros. Of course then you have to add in the USPS and if you pay via PayWow the sky is the limit.

Denny

W4EAL

----- Original Message -----
From: Garey Barrell
Sent: 08/06/10 10:00 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Some Informations about DRAKE SPR-4

Joachim - The AADE DFD1-Drake would work for a digital readout at $50 for the kit. <http://www.aade.com/#dfd> I don't know of a direct replacement for the FS-4. There were not many sold originally, so the few available demand a fairly high price. One possibility that might be modified to do the job would be the K5BCQ Kit #2 <http://www.qsl.net/k5bcq/Kits/Kits.html> It would require a little modification and packaging, but I believe would work just fine. At $40 for the kit, it's considerably cheaper than an FS-4! 73, Garey - K4OAH Glen Allen, VA Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs <www.k4oah.com> Hans-Joachim Empel wrote: > Good Morning to the Group , > > i am writing from Germany and i need some Informations for some Drake Parts. > > I am owning a Drake SPR - 4 Receiver in excellent conditions. > > For this receiver i am looking for a frequency synthesizer like the FS-4 ore a modern version of the FS - 4. > > Also i am looking for a frequency counter for my SPR - 4. > > If somebody can give me some informations how to buy this parts , i am very happy. > > Here in Europe its nearly impossible to get some Informations for buying this parts. > > EBAY is not the way the most parts are much to expensive ore in not that good quality. > > The SPR - 4 is a great receiver and in some parts better as all the modern receivers. > > With the FS - 4 and the Freq.Counter i want to modify my SPR - 4 and will use this receiver for another long periode. > > Every Information is welcome. > > Thanks for the help > > Kind Regards from Germany > > Joachim > > DL2388RB > > >

[Non-text portions of this message have been removed]

4077. Re: [DrakeRadio] Some Informations about DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-06 17:14:20 UTC
From: Garey Barrell
Topic: 4074 Message: 4077

Actually only $9 additional for 'DX' postage. Not bad.

73, Garey - K4OAH
Glen Allen, VA

Dennis Weal wrote:
> Not too bad a deal since the AADE DFD1-Drake would cost 37,93 Euros and the K5BCQ Kit-2 would be 30,34 Euros. Of course then you have to add in the USPS and if you pay via PayWow the sky is the limit.
>
> Denny
>
> W4EAL
>
>
> ----- Original Message -----
> From: Garey Barrell
> Sent: 08/06/10 10:00 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Some Informations about DRAKE SPR-4
>
> Joachim - The AADE DFD1-Drake would work for a digital readout at $50 for the kit.<http://www.aade.com/#dfd> I don't know of a direct replacement for the FS-4. There were not many sold originally, so the few available demand a fairly high price. One possibility that might be modified to do the job would be the K5BCQ Kit #2<http://www.qsl.net/k5bcq/Kits/Kits.html> It would require a little modification and packaging, but I believe would work just fine. At $40 for the kit, it's considerably cheaper than an FS-4! 73, Garey - K4OAH Glen Allen, VA Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs<www.k4oah.com> Hans-Joachim Empel wrote:> Good Morning to the Group ,> > i am writing from Germany and i need some Informations for some Drake Parts.> > I am owning a Drake SPR - 4 Receiver in excellent conditions.> > For this receiver i am looking for a frequency synthesizer like the FS-4 ore a modern version of the FS - 4.> > Also i am looking for a frequency counter for my SPR - 4.> > If somebody can give me some informations how to buy this parts , i am very happy.> > Here in Europe its nearly impossible to get some Informations for buying this parts.> > EBAY is not the way the most parts are much to expensive ore in not that good quality.> > The SPR - 4 is a great receiver and in some parts better as all the modern receivers.> > With the FS - 4 and the Freq.Counter i want to modify my SPR - 4 and will use this receiver for another long periode.> > Every Information is welcome.> > Thanks for the help> > Kind Regards from Germany> > Joachim> > DL2388RB> > >
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4078. SPR-4 and Frequency Synthesyzer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-07 10:45:03 UTC
From: Hans-Joachim Empel
Topic: 4078 Message: 4078

Its me again , Joachim from Germany.

I need some Informations from more experianced OMs as me.

I found in the Internet following DDS Generator from a german Supplier .

Please see the datas below , i think the most important datas i translated in english.

Can i use this DDS - Generator to make my SPR - 4 fully available for Shortwave like the FS - 4 ??????

Every Help ore Iear ore Information are wellcome , also if somebody has a usable DDS - Generator to sell , please let me know !!!!!

Thanks fromGermany

Joachim
DL2388RB

(ARRL - Member)

DDS - Signalgenerator , Signalgenerator
Beschreibung:

DDS - Signalgenerator mit einem Frequenzbereich von 0Hz - 89MHz. (Frequenvy Range : 0 - 89 MHz)

Alle Funktionen des Signalgenerators werden mit Hilfe einnes PC's gesteuert. (Computer controlled (PC)
Die Schrittfrequenz ist durchgehend in 0.040Hz (40mHz) Schritten einstellbar. (minimal Step 0.040 Hz)
Der gesamte Frequenzbereich kann so in 2.4 Millarden Schritten durchlaufen werden !!
Die Ausgangsspannung ist einstellbar von 0 - 1.5Vss (Output Voltage : 0 - 1.5Vss)
Der DDS - Signalgenerator besitzt einen Wobbler. Die minimale Startfrequenz liegt bei 0Hz, (min Freq . 0.0 Hz)
le Endfrequenz bei 89Mhz. Auch hier ist der kleinste Schritt im gesamten (max Freq. 89.00 MHz)!

Der Generator ist mit Hilfe einer Steuerdatei (steuer.ini) fernsteuerbar. (REMOTE CONTROLLED via PC / LAPTOP)

Dank der DDS-Technologie besitzt der Signalgenerator hervorragende technische Merkmale

Merkmal Minimum Typisch Maximum
Frequenz 0 - 89MHz
Frequenzschritt 0.040Hz !! - 89MHz
Ausgangsspannung 0 - 1.5Vss
Ausgangsstrom 0mA 20mA 30mA

Lieferumfang: Delivery of Parts
- Deutsche Beschreibung (German Manual)
- DDS-Signalgenerator (DDS Signal Generator)
- Netzteil (Powersupply)
- Anschlusskabel (Cabels)
- Original Software (Vollversion). (Software for PC full Version)
- Anschluss PC: parallele Schnittstelle, LPT1 (onnected on PC LPT-1 Port)
Getestete Betriebssysteme: Windows 95b/98/SE/ME/NT/XP/2000

[Non-text portions of this message have been removed]

4079. Drake front-panel colours of grey ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 15:44:50 UTC
From: arsnf7z
Topic: 4079 Message: 4079

unfortunately, the company that made new panels is no more. at least, they haven't returned my dozen inquiries. and so, I must attempt to touch-up a few areas on my RV4C panel.

has anyone found a good match for the dark grey? the darkest grey paint I have found was Krylon Smoke Grey which is still too light. I realize that results are generally poor, but in this instance, I could hardly make thing worse.

Krylon, Rustoleum, spray or brushed?

73's

NF7Z, daniel

4080. Re: [DrakeRadio] Drake front-panel colours of grey ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 20:26:26 UTC
From: Richard Knoppow
Topic: 4079 Message: 4080

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, August 08, 2010 8:44 AM
Subject: [DrakeRadio] Drake front-panel colours of grey ...

> unfortunately, the company that made new panels is no
> more. at least, they haven't returned my dozen inquiries.
> and so, I must attempt to touch-up a few areas on my RV4C
> panel.
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> which is still too light. I realize that results are
> generally poor, but in this instance, I could hardly make
> thing worse.
>
> Krylon, Rustoleum, spray or brushed?
>
> 73's
>
> NF7Z, daniel
>

You might check if a place like Home Depot or an
automotive supply store could match the paint. They can
often match all sorts of special colors.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4081. Re: [DrakeRadio] Drake front-panel colours of grey ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 20:42:57 UTC
From: Garey Barrell
Topic: 4079 Message: 4081

Daniel -

Yes, he stopped some months ago. Guess he got 'burned out'.

There are a couple of Testor's or ModelMaker paints that come very close.

The Dark Gray is #1791 'Navy Gray', and the Light Gray is #1794 'Agressor Gray'. They can of course be darkened or lightened to allow for aging by adding a little black or white if necessary.

The secret to 'touch-up' success is to 'rub in' the spot to the surrounding area so you don't have a 'bump' of new paint. 600 or even 1000-1500 grit 'wet/dry' sandpaper, and finish with something like Novus #2 or toothpaste, etc.

The Cabinets are Rustoleum #7777 'Satin Black', or Krylon #1613 'Semi-Flat Black'. Either is fine for the early, smooth cabinets, (up through the "A" series,) and there is a good article for simulating the 'textured' finish found on the later "B" and "C" series at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/CabinetRepainting.htm>.

Of course there's always Hartzell Mfr Co., who will still repaint (powder coat) and even screen the TR-4 cabinets. Unfortunately, last I heard they charged $50 per _piece_ (top and bottom), plus $25 shipping and handling.

2533 Technical Drive
Miamisburg Ohio 45342

937-859-5955

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> unfortunately, the company that made new panels is no more. at least, they haven't returned my dozen inquiries. and so, I must attempt to touch-up a few areas on my RV4C panel.
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>
> Krylon, Rustoleum, spray or brushed?

>
> 73's
>
> NF7Z, daniel
>
>

4082. Re: Drake front-panel colours of grey ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 21:19:23 UTC
From: arsnf7z
Topic: 4079 Message: 4082

thanks, I'll order the paints online. it's a shame Tony quit making panels. I would pay dearly for a RV4C panel. every panel I've managed to locate and buy is sub-par ... the good news is that I now have two RV4C's that are working perfectly.

NF7Z, daniel

4083. PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 21:23:02 UTC
From: arsnf7z
Topic: 4083 Message: 4083

before tearing into the PTO on my R4C, I'm thinking someone else has experienced this before me and might point me directly to a common component that fails in this manner.

in twenty minutes, after a 20 minute warmup, the PTO drifts about 1khz, far out of spec. I can lock the carrier oscillator from the T4XC and the transmitter PTO is very stable, whereas the R4C takes off into the wild blue.

is this perhaps, a common problem?

thanks,

NF7Z, daniel

4084. Re: [DrakeRadio] PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 21:37:11 UTC
From: Garey Barrell
Topic: 4083 Message: 4084

Is it a 'smooth' drift? Or is it "jumping"? Which way? Is it the PTO,
or is it the BFO that's drifting?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> before tearing into the PTO on my R4C, I'm thinking someone else has experienced this before me and might point me directly to a common component that fails in this manner.
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>
> is this perhaps, a common problem?
>
> thanks,
>
> NF7Z, daniel
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> Yahoo! Groups Links
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4085. Re: [DrakeRadio] PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 21:44:28 UTC
From: Garey Barrell
Topic: 4083 Message: 4085

'Tearing into the PTO' is not likely to resolve this problem.

What is the 'reference' signal that you're using?

What is the DC supply to the PTO doing?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> before tearing into the PTO on my R4C, I'm thinking someone else has experienced this before me and might point me directly to a common component that fails in this manner.
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> in twenty minutes, after a 20 minute warmup, the PTO drifts about 1khz, far out of spec. I can lock the carrier oscillator from the T4XC and the transmitter PTO is very stable, whereas the R4C takes off into the wild blue.
>
> is this perhaps, a common problem?
>
> thanks,
>
> NF7Z, daniel
>
>
>

4086. Re: PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 22:45:27 UTC
From: arsnf7z
Topic: 4083 Message: 4086

nothing scientific on this end. it is a smooth, continuous drift, such that a 80 meter signal will appear to drift 'up' in frequency. in other words, to chase the reference generator I have to continually tune to a higher frequency. I've no schematic and can't remember the oscillator/mixing chain. my first approach is to monitor the DC voltage that comes off the zener. the receiver has all original components with zero modifications, which also means, all the original electrolytics. however, since this drift is so severe, I was hoping that someone had had the same problem and identifiifed the failure.

I was trying to think what parameter could change to manifest such a large drift. it seems to me that if the BFO drifted, it would be associated with a passband shift, which does not occur.

I appreciate your thoughts ...

NF7Z

4087. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-08 23:06:55 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4087

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4088. Re: [DrakeRadio] Re: PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-09 03:10:26 UTC
From: Garey Barrell
Topic: 4083 Message: 4088

First, how certain are you of your 'reference' stability?

The 3rd Mixer LO in the receiver is crystal controlled when in Separate. The C-Line patches the CAR OSC signal from the Transmitter to the Receiver 3rd Mixer in transceive. The PreMix signal (difference between the BAND oscillator and PTO is also patched to the Receiver via the INJ cable, so these are the signals 'eliminated' from the suspect list when you transceive under TX control.

The Receiver 3rd Mixer oscillator has a trimmer cap which could be suspect. There is a separate trimmer cap for AM.

C165 electrolytic on the +11V power supply is a possibility if it's leaky enough to drag the 11V supply below the PTO Zener CR6 as it heats up. C151 is inside the PTO, but it is a tantalum, and considerably more reliable than the electrolytic.

The only PTO 'drift' that I've run into is a bad FET, Q8, but that typically presents as a 'jitter' rather than a slow, steady drift. Opening the PTO is a little risky since the TC and linearization components are sometimes just hanging in the air, and disturbing their position can be catastrophic. The only things I have been able to replace without harm are the Zener and the FET. The PTO is really not designed for repair! :-)

A 1 kHz change in the BFO frequency might not change the Passband tuning enough to be apparent unless you were on a narrow bandwidth filter.

I'd verify the reference stability and if it's good then the Zener voltage. Beyond that I'd suggest a counter before getting into the PTO. The PTO and BFO are the only two oscillators that are NOT crystal controlled, and though crystals 'can' drift, it would be very unusual for one to drift in this fashion.

One last question. Does the frequency continue to drift upward, or does it eventually 'stop' drifting and stabilize?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> nothing scientific on this end. it is a smooth, continuous drift, such that a 80 meter signal will appear to drift 'up' in frequency. in other words, to chase the reference generator I have to continually tune to a higher frequency. I've no schematic and can't

remember the oscillator/mixing chain. my first approach is to monitor the DC voltage that comes off the zener. the receiver has all original components with zero modifications, which also means, all the original electrolytics. however, since this drift is so severe, I was hoping that someone had had the same problem and identifided the failure.
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> I was trying to think what parameter could change to manifest such a large drift. it seems to me that if the BFO drifted, it would be associated with a passband shift, which does not occur.
>
> I appreciate your thoughts ...
>
> NF7Z
>
>
>

4089. Re: PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-09 14:02:31 UTC
From: arsnf7z
Topic: 4083 Message: 4089

thanks Garey for your comments. I was confident this was a typical failure mode (seen dozens of times) but apparently I've got myself an interesting patient. well, I'll just have to dig into the R4C. as I have mentioned before, I am on my sailboat and slightly less motivated to get out the soldering iron! I did manage to download the schematic so after sailing to Port Townsend this morning I'll give it a go.

there are several things I can try, and I do have a counter to help characterize the drift. it does tend to stabilize after about 1khz drift. the signal source I use is a new Tektronix AWG3021B that is synthesized and quite accurate. again, when running in transceive mode with the T4XC I can determine that the transmitter PTO is stable and the R4C is drifting madly by comparison.

as I remember, drift at the BFO would not cause a shift in frequency. the 50khz is mixed twice, once in the last mixer, and then in the product detector. the result being a passband shift across the filter in use. I'll measure the PTO voltage first, and then hang the counter on the PTO and better characterize the instability.

I was hoping someone would simply say 'yeah, seen it happen. it's C999. goes sour all the time'. oh well .. no such luck!

if all else ultimately fails, I have a spare RV4C PTO that is rock solid that I can substitute. however, there will be a great satisfaction if I can get the original working properly.

thanks again,

daniel

4090. Re: [DrakeRadio] Re: PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-09 14:21:23 UTC
From: Ronald Erickson
Topic: 4083 Message: 4090

Daniel,

I had a problem with my R4C that is similar. I installed a 12 volt DC power supply for the VFO and changed the zener to a 5-watt and putting in a reverse bias silicon diode which is a voltage reference. I do not remember the zener voltage rating but I think I took into account the diode which is .7 volts to make the change. I no longer have any drift to speak of. I do have a diode in the receiver I need to change as the sensitivity is not what it should be.

73,

Ron, K0IC

On Mon, Aug 9, 2010 at 9:02 AM, arsnf7z <ars.nf7z@...> wrote:

>
>
> thanks Garey for your comments. I was confident this was a typical failure
> mode (seen dozens of times) but apparently I've got myself an interesting
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> get the original working properly.
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> thanks again,

>
> daniel
>
>
>

--
Ronald D. Erickson, K0IC
Southwest Iowa Amateur Radio Club
Bellevue Amateur Radio Club
ARRL Local Government Liaison
ARRL Public Information Officer
ARRL Technical Specialist
ARRL, the national association for Amateur Radio?
563-263-3097
ronalderickson777@...
10-X #12938 :* EN20iu
ARRL Lifer since 1976
3900 Club #729
Iowa QRP Club #179
QCWA #30762; Chapters, 25, 123, 210
FCC #PG-17-12556
FISTS CW Club #12484
Straight Key Century Club #2253
FGBMFI Life Member
Salvation Army Team Emergency Radio Network member
Pastor by Universal Life Church, Modesto, CA
Trying to join the Shenandoah Assembly of God
The Collins Collectors Association #AC07-12075
Courage HANDI-HAM System member
Ex: WN0GDA, WB0GDA, AK0N, AAV7AW
Ex: KMA-AM broadcast engineer 1977-1989.
Ex: SBE Senior Broadcast Engineer #2308 - Radio - AM/FM
IWCC -Clarinda Associate of Arts Degree - 1973
University of Nebraska at Omaha Bachelor of General Studies Degree - 1993
k0ic@...
www.contactify.com/c521b

[Non-text portions of this message have been removed]

4091. Re: [DrakeRadio] Re: PTO drift ... 1khz in 20 minutes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-09 18:45:56 UTC
From: Garey Barrell
Topic: 4083 Message: 4091

This is not a bad approach. The 5W Zener is way overkill, the Zener only dissipates 200 mW. The 1N714 is rated at 250 mW, but if the actual Zener voltage is higher than the nominal (+/- 10%) of 10V it is bumping up against the rating. A 1N4740 would be a good replacement, with plenty of margin at 1W.

I suppose the input voltage could be picked off of the +12 or +14V supply in the R-4C, but I'm not sure it's worth it. The Drake method of using a resistor from a much higher voltage gets a lot of grief, but it actually approaches the 'ideal' source for a Zener, i.e., a pure current source. Which is why Drake engineers used this circuit even in the C Line where they had lower voltages available.

The voltage stability of the 1N47xx series Zeners is good enough that the additional forward biased junction could even 'upset' the temperature stability with it's 1 mV / 1?C tempco.

All of which revolves around the voltage measured on the DC input to the PTO to determine if that is what is causing Daniel's problem. The absolute voltage is obviously not as important as the delta V over time.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Ronald Erickson wrote:
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>
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> On Mon, Aug 9, 2010 at 9:02 AM, arsnf7z<ars.nf7z@...> wrote:
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>> thanks again,
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>> daniel
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4092. T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 13:09:08 UTC
From: w5rkl
Topic: 4092 Message: 4092

Good morning everyone,

I recently purchased a T4XB that has no RF output. The problem turned out to be no output from the PTO. I verified this by using my R4C as the PTO source (Injection connection between the R4C and T4XB) and the transmitter works. The transmitter tunes up with 100 watts output on 40 meter CW. The keyed note sound clean and stable in a separate receiver.

I looked the wiring over at the bottom of the PTO wiring access hole and nothing initially appears to be broken or tampered with.

My initial thought is PTO Q2, MPF-102, has failed which would require either removing the PTO or removing the outer metal cover.

I repaired my R4C PTO a year ago, diode lead came loose from the circuit board inside the PTO. I didn't remove the PTO to fix that problem, just the outer metal cover.

There is a modification to V1B, AGC amplifier, where a previous owner installed a small toggle switch mounted in the right rear hole between R12 (1.5K) and pin 7 of V1 and R29 (22K). The switch appears to turn V1B ON and OFF. That will have to come out.

Any suggestions?

73s
Mike
W5RKL

4093. Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 13:38:20 UTC
From: arsnf7z
Topic: 4092 Message: 4093

Mike,

be advised that the Injection output from the R4C is not simply the PTO signal (it's mixed with band-select oscillator). therefore, you can't necessarily indict the PTO just because it works with the receiver.

NF7Z, daniel

4094. Re: [DrakeRadio] T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 14:10:57 UTC
From: Garey Barrell
Topic: 4092 Message: 4094

Mike -

Daniel already pointed out that the INJ signal is the _difference_ of the BAND oscillator and PTO, so either 'could' be missing. Of course there could also be a fault in the PreMixer itself.

Verify that you have ~11 VDC on the 'red' wire that goes inside the PTO. You should have about 2V p-p on the 'wht' wire at ~ 5 MHz.

A shorted Zener is also a possibility. Depending upon the unit serial number, the PTO could be either a 2N706 -or- an MPF102. A 2N5668 is a better choice as a replacement for the MPF-102.

Let us know what you find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Good morning everyone,
>
> I recently purchased a T4XB that has no RF output. The problem turned out to be no output from the PTO. I verified this by using my R4C as the PTO source (Injection connection between the R4C and T4XB) and the transmitter works. The transmitter tunes up with 100 watts output on 40 meter CW. The keyed note sound clean and stable in a separate receiver.
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> I looked the wiring over at the bottom of the PTO wiring access hole and nothing initially appears to be broken or tampered with.
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> My initial thought is PTO Q2, MPF-102, has failed which would require either removing the PTO or removing the outer metal cover.
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> I repaired my R4C PTO a year ago, diode lead came loose from the circuit board inside the PTO. I didn't remove the PTO to fix that problem, just the outer metal cover.
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> There is a modification to V1B, AGC amplifier, where a previous owner installed a small toggle switch mounted in the right rear hole between R12 (1.5K) and pin 7 of V1 and R29 (22K). The switch appears to turn V1B ON and OFF. That will have to come out.
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> Any suggestions?
>
> 73s
> Mike
> W5RKL

>
>

4095. Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 14:25:32 UTC
From: w5rkl
Topic: 4092 Message: 4095

Okay, I'll go sit in the corner with the "Dunce" hat on....:) Duh....

The PTO is working fine and the 5645Khz carrier oscillator is also working, it's oscillating at 5644.7, frequency taken from the Carrier Balance pot wiper.

I checked the output of Q3 Het oscillator as it feeds to pin 1 of V8 and I only see the PTO frequency. I'll have to check if I have any. I have 2N3393s but I don't think I have 2N3394s.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Daniel already pointed out that the INJ signal is the _difference_ of
> the BAND oscillator and PTO, so either 'could' be missing. Of course
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> Verify that you have ~11 VDC on the 'red' wire that goes inside the
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> Glen Allen, VA
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> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> w5rkl wrote:
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> > 73s
> > Mike
> > W5RKL
> >
> >
>

4096. Re: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 14:51:38 UTC
From: Garey Barrell
Topic: 4092 Message: 4096

I 'assume' this is on more than one BAND (crystal?)

Switch DeoxiT'ed?

73, Garey - K4OAH
Glen Allen, VA

w5rkl wrote:
> Okay, I'll go sit in the corner with the "Dunce" hat on....:) Duh....
>
> The PTO is working fine and the 5645Khz carrier oscillator is also working, it's oscillating at 5644.7, frequency taken from the Carrier Balance pot wiper.
>
> I checked the output of Q3 Het oscillator as it feeds to pin 1 of V8 and I only see the PTO frequency. I'll have to check if I have any. I have 2N3393s but I don't think I have 2N3394s.
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> 73s
> Mike
> W5RKL
>
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
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>> Mike -
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>> number, the PTO could be either a 2N706 -or- an MPF102. A 2N5668 is a
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>> Let us know what you find!
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>> Glen Allen, VA
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
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>> w5rkl wrote:
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>>> There is a modification to V1B, AGC amplifier, where a previous owner installed a small toggle switch mounted in the right rear hole between R12 (1.5K) and pin 7 of V1 and R29 (22K). The switch appears to turn V1B ON and OFF. That will have to come out.
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> Yahoo! Groups Links
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4097. Re: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 14:54:41 UTC
From: Garey Barrell
Topic: 4092 Message: 4097

Q3 should have 1.1VDC on Emitter, 1.7 V on Base and 7.8 V on Collector.

73, Garey - K4OAH
Glen Allen, VA

w5rkl wrote:
> Okay, I'll go sit in the corner with the "Dunce" hat on....:) Duh....
>
> The PTO is working fine and the 5645Khz carrier oscillator is also working, it's oscillating at 5644.7, frequency taken from the Carrier Balance pot wiper.
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> 73s
> Mike
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> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
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>> Mike -
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>> Let us know what you find!
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>> w5rkl wrote:

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>>> W5RKL
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4098. Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 15:01:00 UTC
From: w5rkl
Topic: 4092 Message: 4098

I'm still checking to be sure. I don't want to make the same mistake twice...:)

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> I 'assume' this is on more than one BAND (crystal?)
>
> Switch DeoxiT'ed?
>
> 73, Garey - K4OAH
> Glen Allen, VA
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>
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> >> Mike -
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> >> Verify that you have ~11 VDC on the 'red' wire that goes inside the
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4099. Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 15:38:07 UTC
From: w5rkl
Topic: 4092 Message: 4099

Okay, after checking all of the oscillators, here is what I found.

1. Carrier oscillator is working.

2. The PTO is working

3. Q3 "is" working BUT I'm having troubles with the het crystals oscillating.

Item 3 may be dirty crystal sockets. I cleaned the crystal select wafer switch.

For a test I pulled the 40 meter het crystal from a spare R4C and 40 meters works. I then put the original crystal back in and 40 meter worded. "BUT", I don't want to jump to conclusions and make a decision on the crystals. So, I'm continue to troubleshoot the het oscillator circuit so I'm absolutely sure.

I'll let you know what I end up finding as the problem.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
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> 73s
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> > >
> > > The PTO is working fine and the 5645Khz carrier oscillator is also working, it's

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> > > I checked the output of Q3 Het oscillator as it feeds to pin 1 of V8 and I only see the PTO frequency. I'll have to check if I have any. I have 2N3393s but I don't think I have 2N3394s.
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> > >> w5rkl wrote:
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4100. Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 17:30:52 UTC
From: w5rkl
Topic: 4092 Message: 4100

Afternoon everyone,

Okay, after thorough testing I found the heterodyne oscillator is working. I did, however, find the 40 meter heterodyne crystal is bad, it won't oscillate. I had a spare so I replaced it. Now ALL bands work. The transmitter could stand for a slight touch up in the alignment. But, for now, The transmitter's working. I connected the transmitter to the R4C receiver and it controls the receiver.

I cleaned the crystal sockets, all wafer switches, and checked each crystal to ensure the pins were making contact in the crystal sockets. I also cleaned the VOX pots, Drive pot, and blew out all of the dust balls. Pulled all the tubes and cleaned the final amplifier and the chassis as much as I could. Unfortunately, the copper chassis has quite a bit of discoloration but fortunately, no rust. I still need to remove the toggle switch modification on the rear panel that appears to turn the AGC amplifier V1B on and off. Don't know why this was done but it's coming out.

Thanks for all the suggestions and also for Bill and Gary for showing me I was looking in the wrong place.

For $220 which included the transmitter, AC3 supply, and MS4, I guess it wasn't a bad deal after all. No real expense in repairs, just time and a spare crystal.

73s
Mike
W5RKL

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> > > > Yahoo! Groups Links
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4101. RE: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 17:35:22 UTC
From: Brenton Crowhurst
Topic: 4092 Message: 4101

Boy, am I glad I decided to pass on that purportedly nice, clean complete 4B set offered for the modest price of, ohhh, $1200, I think he wanted.

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of w5rkl [w5rkl@...]
Sent: August 10, 2010 11:30 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: T4XB PTO removal

Afternoon everyone,

Okay, after thorough testing I found the heterodyne oscillator is working. I did, however, find the 40 meter heterodyne crystal is bad, it won't oscillate. I had a spare so I replaced it. Now ALL bands work. The transmitter could stand for a slight touch up in the alignment. But, for now, The transmitter's working. I connected the transmitter to the R4C receiver and it controls the receiver.

I cleaned the crystal sockets, all wafer switches, and checked each crystal to ensure the pins were making contact in the crystal sockets. I also cleaned the VOX pots, Drive pot, and blew out all of the dust balls. Pulled all the tubes and cleaned the final amplifier and the chassis as much as I could. Unfortunately, the copper chassis has quite a bit of discoloration but fortunately, no rust. I still need to remove the toggle switch modification on the rear panel that appears to turn the AGC amplifier V1B on and off. Don't know why this was done but it's coming out.

Thanks for all the suggestions and also for Bill and Gary for showing me I was looking in the wrong place.

For $220 which included the transmitter, AC3 supply, and MS4, I guess it wasn't a bad deal after all. No real expense in repairs, just time and a spare crystal.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
>
> Okay, after checking all of the oscillators, here is what I found.
>

> 1. Carrier oscillator is working.
>
> 2. The PTO is working
>
> 3. Q3 "is" working BUT I'm having troubles with the het crystals oscillating.
>
> Item 3 may be dirty crystal sockets. I cleaned the crystal select wafer switch.
>
> For a test I pulled the 40 meter het crystal from a spare R4C and 40 meters works. I then put the original crystal back in and 40 meter worded. "BUT", I don't want to jump to conclusions and make a decision on the crystals. So, I'm continue to troubleshoot the het oscillator circuit so I'm absolutely sure.
>
> I'll let you know what I end up finding as the problem.
>
> 73s
> Mike
> W5RKL
>
>
>
> --- In DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> >
> > I'm still checking to be sure. I don't want to make the same mistake twice...:)
> >
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>, Garey Barrell <k4oah@> wrote:
> > >
> > >
> > > I 'assume' this is on more than one BAND (crystal?)
> > >
> > > Switch DeoxiT'ed?
> > >
> > > 73, Garey - K4OAH
> > > Glen Allen, VA
> > >
> > >
> > >
> > > w5rkl wrote:
> > > > Okay, I'll go sit in the corner with the "Dunce" hat on....:) Duh....
> > > >
> > > > The PTO is working fine and the 5645Khz carrier oscillator is also working, it's oscillating at 5644.7, frequency taken from the Carrier Balance pot wiper.

> > > >
> > > > I checked the output of Q3 Het oscillator as it feeds to pin 1 of V8 and I only see the PTO frequency. I'll have to check if I have any. I have 2N3393s but I don't think I have 2N3394s.
> > > >
> > > > 73s
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > > --- In DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>, Garey Barrell<k4oah@> wrote:
> > > >
> > > >> Mike -
> > > >>
> > > >> Daniel already pointed out that the INJ signal is the _difference_ of
> > > >> the BAND oscillator and PTO, so either 'could' be missing. Of course
> > > >> there could also be a fault in the PreMixer itself.
> > > >>
> > > >> Verify that you have ~11 VDC on the 'red' wire that goes inside the
> > > >> PTO. You should have about 2V p-p on the 'wht' wire at ~ 5 MHz.
> > > >>
> > > >> A shorted Zener is also a possibility. Depending upon the unit serial
> > > >> number, the PTO could be either a 2N706 -or- an MPF102. A 2N5668 is a
> > > >> better choice as a replacement for the MPF-102.
> > > >>
> > > >> Let us know what you find!
> > > >>
> > > >> 73, Garey - K4OAH
> > > >> Glen Allen, VA
> > > >>
> > > >> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > > >> <www.k4oah.com>
> > > >>
> > > >>
> > > >> w5rkl wrote:
> > > >>
> > > >>> Good morning everyone,
> > > >>>
> > > >>> I recently purchased a T4XB that has no RF output. The problem turned out to be no output from the PTO. I verified this by using my R4C as the PTO source (Injection connection between the R4C and T4XB) and the transmitter works. The transmitter tunes up with 100 watts output on 40 meter CW. The keyed note sound clean and stable in a separate receiver.
> > > >>>
> > > >>> I looked the wiring over at the bottom of the PTO wiring access hole and nothing initially appears to be broken or tampered with.
> > > >>>
> > > >>> My initial thought is PTO Q2, MPF-102, has failed which would require either removing the PTO or removing the outer metal cover.

> > > >>>
> > > >>> I repaired my R4C PTO a year ago, diode lead came loose from the circuit board inside the PTO. I didn't remove the PTO to fix that problem, just the outer metal cover.
> > > >>>
> > > >>> There is a modification to V1B, AGC amplifier, where a previous owner installed a small toggle switch mounted in the right rear hole between R12 (1.5K) and pin 7 of V1 and R29 (22K). The switch appears to turn V1B ON and OFF. That will have to come out.
> > > >>>
> > > >>> Any suggestions?
> > > >>>
> > > >>> 73s
> > > >>> Mike
> > > >>> W5RKL
> > > >>>
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> > > > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4102. Re: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 17:58:45 UTC
From: Garey Barrell
Topic: 4092 Message: 4102

Brenton -

Well, IF all the copper is _perfect_, all the _paint_ is perfect,
the knobs, dials, tubes, all original, no modifications, all manuals,
etc., etc., etc., that price is not TOO far off. A typical set should
bring $6-800 if unmodified and with only a few minor copper blemishes,
good knobs and dials all present and accounted for.

But if you don't care how it looks, corroded copper, scuffed paint,
dented cabinet, rusty chassis, etc., you can get a set for a LOT less.

TYPICAL prices these days are about $275-325 for the R-4B, $150-200 for
the T-4XB, $100 for the AC-4, and about $60-70 for the (originally $20!)
speaker.

Of course there are always the "lost interest", "distress", or "estate"
bargains, and even, rarely, a dumpster or trash day find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Boy, am I glad I decided to pass on that purportedly nice, clean complete 4B set offered
for the modest price of, ohhh, $1200, I think he wanted.
>

4103. RE: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 18:02:15 UTC
From: Brenton Crowhurst
Topic: 4092 Message: 4103

Well, I might have been a bit of a hard @$$ trying to get him down to under $1000.

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: August 10, 2010 11:58 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: T4XB PTO removal

Brenton -

Well, IF all the copper is _perfect_, all the _paint_ is perfect,
the knobs, dials, tubes, all original, no modifications, all manuals,
etc., etc., etc., that price is not TOO far off. A typical set should
bring $6-800 if unmodified and with only a few minor copper blemishes,
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But if you don't care how it looks, corroded copper, scuffed paint,
dented cabinet, rusty chassis, etc., you can get a set for a LOT less.

TYPICAL prices these days are about $275-325 for the R-4B, $150-200 for
the T-4XB, $100 for the AC-4, and about $60-70 for the (originally $20!)
speaker.

Of course there are always the "lost interest", "distress", or "estate"
bargains, and even, rarely, a dumpster or trash day find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Boy, am I glad I decided to pass on that purportedly nice, clean complete 4B set offered for the modest price of, ohhh, $1200, I think he wanted.
>

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message in error, please notify the sender immediately, and then delete the original message. Thank you.

[Non-text portions of this message have been removed]

4104. T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 20:25:54 UTC
From: w5rkl
Topic: 4104 Message: 4104

Just uploaded pictures of the T4XB, MS4, and my older version R4C.

Again, thanks to everyone for their comments, suggestions, and support. All I need to do now is rebuild the AC3 supply and mount it in the MS4 speaker enclosure.

73s
Mike
W5RKL

4105. Re: [DrakeRadio] T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 20:39:41 UTC
From: Garey Barrell
Topic: 4104 Message: 4105

Looks good Mike! That's a Version 2, so should have the MPF-102 /
2N5668 in the 'FET' PTO.

I can't think of any 'good' reason to disable the ALC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Just uploaded pictures of the T4XB, MS4, and my older version R4C.
>
> Again, thanks to everyone for their comments, suggestions, and support. All I need to do now is rebuild the AC3 supply and mount it in the MS4 speaker enclosure.
>
> 73s
> Mike
> W5RKL
>
>

4106. Re: T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 21:15:01 UTC
From: w5rkl
Topic: 4104 Message: 4106

Garey,

I can't think of any reason either but someone sure did.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Looks good Mike! That's a Version 2, so should have the MPF-102 /
> 2N5668 in the 'FET' PTO.
>
> I can't think of any 'good' reason to disable the ALC.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w5rkl wrote:
> > Just uploaded pictures of the T4XB, MS4, and my older version R4C.
> >
> > Again, thanks to everyone for their comments, suggestions, and support. All I need to
do now is rebuild the AC3 supply and mount it in the MS4 speaker enclosure.
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
>

4107. RE: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 21:30:50 UTC
From: Jim Chaggaris
Topic: 4092 Message: 4107

I don't even want to say what I paid for my spotless late serial number B-Line. It sure wasn't 1K though hi hi. :-)

73,
Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241
Website: www.pwrone.com

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-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Brenton Crowhurst
Sent: Tuesday, August 10, 2010 1:02 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Re: T4XB PTO removal

Well, I might have been a bit of a hard @$$ trying to get him down to under $1000.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: August 10, 2010 11:58 AM
To: DrakeRadio@yahoogroups.com

Subject: Re: [DrakeRadio] Re: T4XB PTO removal

Brenton -

Well, IF all the copper is _perfect_, all the _paint_ is perfect,
the knobs, dials, tubes, all original, no modifications, all manuals,
etc., etc., etc., that price is not TOO far off. A typical set should
bring $6-800 if unmodified and with only a few minor copper blemishes,
good knobs and dials all present and accounted for.

But if you don't care how it looks, corroded copper, scuffed paint,
dented cabinet, rusty chassis, etc., you can get a set for a LOT less.

TYPICAL prices these days are about $275-325 for the R-4B, $150-200 for
the T-4XB, $100 for the AC-4, and about $60-70 for the (originally $20!)
speaker.

Of course there are always the "lost interest", "distress", or "estate"
bargains, and even, rarely, a dumpster or trash day find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Boy, am I glad I decided to pass on that purportedly nice, clean complete
4B set offered for the modest price of, ohhh, $1200, I think he wanted.
>

_____
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

4108. Re: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 21:36:54 UTC
From: Garey Barrell
Topic: 4092 Message: 4108

Jim -

I know your type..... They find a complete B-Line, in the original boxes and with all accessories, sitting on the curb on trash day. When they get them home, they open the previously unopened plastic bags inside and take out a perfect unblemished set.

I don't want to hear about it. Don't ask, don't tell!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Chaggaris wrote:
> I don't even want to say what I paid for my spotless late serial number
> B-Line. It sure wasn't 1K though hi hi. :-)
>
> 73,
> Jim N9WW
>
> James Chaggaris
> President
> PowerOne Corp./PowerOne Environmental
> 1020 Cedar Avenue
> Suite 203
> St. Charles, IL 60174
> Phn: (630) 443-6500
> Fax: (630) 443-6505
> Cell: (630) 669-2241
> Website: www.pwrone.com
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> communication in error, please notify PowerOne Corporation immediately, and
> delete the original message.
>
>
> -----Original Message-----
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On

> Behalf Of Brenton Crowhurst
> Sent: Tuesday, August 10, 2010 1:02 PM
> To: DrakeRadio@yahoogroups.com
> Subject: RE: [DrakeRadio] Re: T4XB PTO removal
>
> Well, I might have been a bit of a hard @$$ trying to get him down to under
> $1000.
>
>
> _____
> Brenton Crowhurst, PhD, RPsych
> Psychologist
> Rockyview General Hospital
> Calgary, AB
>
> _____
> From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of
> Garey Barrell [k4oah@...]
> Sent: August 10, 2010 11:58 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Re: T4XB PTO removal
>
>
>
> Brenton -
>
> Well, IF all the copper is _perfect_, all the _paint_ is perfect,
> the knobs, dials, tubes, all original, no modifications, all manuals,
> etc., etc., etc., that price is not TOO far off. A typical set should
> bring $6-800 if unmodified and with only a few minor copper blemishes,
> good knobs and dials all present and accounted for.
>
> But if you don't care how it looks, corroded copper, scuffed paint,
> dented cabinet, rusty chassis, etc., you can get a set for a LOT less.
>
> TYPICAL prices these days are about $275-325 for the R-4B, $150-200 for
> the T-4XB, $100 for the AC-4, and about $60-70 for the (originally $20!)
> speaker.
>
> Of course there are always the "lost interest", "distress", or "estate"
> bargains, and even, rarely, a dumpster or trash day find!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Brenton Crowhurst wrote:
>

>> Boy, am I glad I decided to pass on that purportedly nice, clean complete
>>
> 4B set offered for the modest price of, ohhh, $1200, I think he wanted.
>
>

4109. Re: [DrakeRadio] T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 21:42:19 UTC
From: Bill Frost
Topic: 4104 Message: 4109

Hello Garey & Mike,

A lot of 4-lines were used by CB'ers back in the day. And they liked to see that meter bounce, so they would disable the ALC. Either with a switch or by cutting off a pin on the ALC amp, which would cause them to purchase a new tube when run through Drakes service department !! HI HI Another way was to put a shorting plug in the ALC jack on the AC-4. Those shorting plugs were usually lost in the service department and never went back with the power supply. HI HI The 38.1 crystals were also removed, but sent back in a coin envelope.

73, Bill wd8dfp

--- On Tue, 8/10/10, Garey Barrell <k4oah@...> wrote:

> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] T4XB photos
> To: DrakeRadio@yahoogroups.com
> Date: Tuesday, August 10, 2010, 4:39 PM
> Looks good Mike! That's a
> Version 2, so should have the MPF-102 /
> 2N5668 in the 'FET' PTO.
>
> I can't think of any 'good' reason to disable the ALC.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement
> CDs
> <www.k4oah.com>
>
>
> w5rkl wrote:
> > Just uploaded pictures of the T4XB, MS4, and my older
> version R4C.
> >
> > Again, thanks to everyone for their comments,
> suggestions, and support. All I need to do now is rebuild
> the AC3 supply and mount it in the MS4 speaker enclosure.
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
>

>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

4110. Re: [DrakeRadio] T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 21:49:17 UTC
From: Garey Barrell
Topic: 4104 Message: 4110

Hi Bill -

I wondered about that..... :-) That was the only 'reason' I could
think of.

While you're here, do you have specifications for the crystals for the
2-B, 4-Line, etc.??

I guessed Parallel Resonant @ 32 pF load for those, and Series Resonant
@ 20 pF load for the overtone ones. Was I even close?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Bill Frost wrote:
> Hello Garey& Mike,
>
> A lot of 4-lines were used by CB'ers back in the day. And they liked to see that meter bounce, so they would disable the ALC. Either with a switch or by cutting off a pin on the ALC amp, which would cause them to purchase a new tube when run through Drakes service department !! HI HI Another way was to put a shorting plug in the ALC jack on the AC-4. Those shorting plugs were usually lost in the service department and never went back with the power supply. HI HI The 38.1 crystals were also removed, but sent back in a coin envelope.
>
> 73, Bill wd8dfp
>

4111. Re: [DrakeRadio] T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 22:03:29 UTC
From: Bill Frost
Topic: 4104 Message: 4111

Hello Garey,

Crystal Specs,
4-line/TR-4:

+/- .003% frequency tolerance
Series resonant
Hermetically sealed HC-6/U plug in holder
Series resistance less than 30 ohms

2-C Accessory Crystal: which I think was same for 2-A/2-B

+/- .005% frequency tolerance at room temperature
Series resonant
Series resistance less than 30 ohms
Hermetically sealed in HC-6/U plug in holder
Lower frequencies are fundamental, upper frequencies can be third overtone
Range 7.000 to 27.500 MHz
The 2-C range crystals were +/- .003%

73, Bill

--- On Tue, 8/10/10, Garey Barrell <k4oah@...> wrote:

> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] T4XB photos
> To: DrakeRadio@yahoogroups.com
> Date: Tuesday, August 10, 2010, 5:49 PM
> Hi Bill -
>
> I wondered about
> that..... :-) That was the
> only 'reason' I could
> think of.
>
> While you're here, do you have specifications for the
> crystals for the
> 2-B, 4-Line, etc.??
>
> I guessed Parallel Resonant @ 32 pF load for those, and
> Series Resonant
> @ 20 pF load for the overtone ones. Was I even
> close?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement
> CDs
> <www.k4oah.com>
>
>
> Bill Frost wrote:
> > Hello Garey& Mike,
> >
> > A lot of 4-lines were used by CB'ers back in the
> day. And they liked to see that meter bounce, so they
> would disable the ALC. Either with a switch or by
> cutting off a pin on the ALC amp, which would cause them to
> purchase a new tube when run through Drakes service
> department !! HI HI Another way was to put a
> shorting plug in the ALC jack on the AC-4. Those
> shorting plugs were usually lost in the service department
> and never went back with the power supply. HI HI
> The 38.1 crystals were also removed, but sent back in a coin
> envelope.
> >
> > 73, Bill wd8dfp
> >
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

4112. Re: T4XB photos

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-10 22:58:47 UTC
From: aa5wg
Topic: 4104 Message: 4112

This is a test message and only a test.
73,
Chuck - AA5WG

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Just uploaded pictures of the T4XB, MS4, and my older version R4C.
>
> Again, thanks to everyone for their comments, suggestions, and support. All I need to do now is rebuild the AC3 supply and mount it in the MS4 speaker enclosure.
>
> 73s
> Mike
> W5RKL
>

4113. RE: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-11 00:29:04 UTC
From: Brenton Crowhurst
Topic: 4092 Message: 4113

Ohhhhh. Maybe I shoulda snapped it up. It was reported to be very clean with near glistening copper -- I think -- it's copper inside, right? (yeah, take me out and shoot me).

I come to appreciate tubes more and more with time. Probably something Freudian about that. Or, maybe "Kleinian".

I'm going to have to have one of these radios... I mean two of these radios sooner or later.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris [jimc@...]
Sent: August 10, 2010 3:30 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Re: T4XB PTO removal

I don't even want to say what I paid for my spotless late serial number B-Line. It sure wasn't 1K though hi hi. :-)

73,
Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241
Website: www.pwrone.com

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-----Original Message-----
From: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of Brenton Crowhurst
Sent: Tuesday, August 10, 2010 1:02 PM
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Subject: RE: [DrakeRadio] Re: T4XB PTO removal

Well, I might have been a bit of a hard @$$ trying to get him down to under
$1000.

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Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
[DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>] On Behalf Of
Garey Barrell [k4oah@...<mailto:k4oah%40mindspring.com>]
Sent: August 10, 2010 11:58 AM
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] Re: T4XB PTO removal

Brenton -

Well, IF all the copper is _perfect_, all the _paint_ is perfect,
the knobs, dials, tubes, all original, no modifications, all manuals,
etc., etc., etc., that price is not TOO far off. A typical set should
bring $6-800 if unmodified and with only a few minor copper blemishes,
good knobs and dials all present and accounted for.

But if you don't care how it looks, corroded copper, scuffed paint,
dented cabinet, rusty chassis, etc., you can get a set for a LOT less.

TYPICAL prices these days are about $275-325 for the R-4B, $150-200 for
the T-4XB, $100 for the AC-4, and about $60-70 for the (originally $20!)
speaker.

Of course there are always the "lost interest", "distress", or "estate"
bargains, and even, rarely, a dumpster or trash day find!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Boy, am I glad I decided to pass on that purportedly nice, clean complete
4B set offered for the modest price of, ohhh, $1200, I think he wanted.
>

_____
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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4114. Re: [DrakeRadio] Re: T4XB PTO removal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-11 02:27:10 UTC
From: Garey Barrell
Topic: 4092 Message: 4114

The 1-A, 2-A/B, R-4, A and B Series radios are all copper plated steel chassis. On the plus side, it is B-eautiful when it's perfect, but you hardly ever see one in that condition any more. If you look UNDER the chassis, you'll see what the top 'usta' look like! :-)

But, it's a very, very thin copper plate, and the lacquer that they put over it is a., also very thin; and b., probably dipped or sprayed with resultant little bubbles that popped and exposed copper to the air. Of course I doubt seriously if Drake expected these radios to still be in use 50 years later!

I haven't seen a 'perfect' one in quite a few years, which is what I would expect from ones that expensive. I believe it would be necessary to find a set that someone bought in the 1965, then lost interest and stored them in a closet wrapped in the original plastic and boxes until last week.

The good news is that the copper is not visible in normal operation, and has absolutely no effect on function. There are those that look like they were stored UNDER the chicken coop (I'll NEVER understand how someone could do that) for the last 50 years. But I bet if they were cleaned up properly they'd work just as well as the 'pretty' ones! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
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> To: DrakeRadio@yahoogroups.com
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>
> 73,
> Jim N9WW
>
> James Chaggaris
> President
> PowerOne Corp./PowerOne Environmental
> 1020 Cedar Avenue
> Suite 203
> St. Charles, IL 60174
> Phn: (630) 443-6500
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> -----Original Message-----
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> Of course there are always the "lost interest", "distress", or "estate"
> bargains, and even, rarely, a dumpster or trash day find!
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> 73, Garey - K4OAH
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> Brenton Crowhurst wrote:
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>> Boy, am I glad I decided to pass on that purportedly nice, clean complete
>>
> 4B set offered for the modest price of, ohhh, $1200, I think he wanted.
>
>

4115. LC2 Dx Engineering speech processor for T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-11 15:11:51 UTC
From: inferno7654
Topic: 4115 Message: 4115

Hello,

i am new to group.
My name is Graziano and my callsign is IW2NOy, i also own a USA callsign and is W2NOY.
I am Drake fan and i recently buy a complete Line 4C, composed by R-4C and T4-XC with MS4+AC4.
Some month ago i found in ebay the LC2 speech processor made by DX Engineering for the T-4XC. I installed the speech processor box on the rear of my T4XC and remove the tube (12BA6) from the socket V2 to plug the socket coming from the Speech processor box.
Following the instruction manual (a bit unreadble), if afterthe installation you see a very low gain moving the XMTR GAIN knob during the tuning, you have to tune also the T2 !
T2 is a smail "squared-iron-box" very close to V2, is in the upper left corner near the final tube cage.
There is a hole on the top but i cannot figured out how tune this T2.
The manual speak about a "tuning tools" but i cannot understand what is speaking about.
In short, i need to put the XMTR GAIN near .15 amp of plate current and tune the T2 until i get the maximum plate current, to complete the installation and to get a XMTR GAIN working as it should be during tuning.
Anyone can help me ? Ideas ?

I am sorry, i am novice with Drake equipment.
I hope that my english is good enough to let you understand my problem and explanation that i wrote.

Thanks a lot to all, best regards, 73's de IW2NOY-W2NOY

4116. DRAKE SPR-4 Cristals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-13 17:00:15 UTC
From: Hans-Joachim Empel
Topic: 4116 Message: 4116

Hello to the Group.

Ineed the specification for the XTALs they are used in the SPR-4 receiver.
Has anybody some informations ????

Thanks for the help

Joachim
DL2388RB

[Non-text portions of this message have been removed]

4117. Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-13 20:23:55 UTC
From: John
Topic: 4034 Message: 4117

Dear Mr. Mike.

May I humbly suggest that instead of you taking your Collins radio equipment "to the grave" that just before your demise (may it be far into the future) you select some humble, poor, struggling, but VERY appreciative ham radio operator to either bequeath or sell your equipment to. As you can guess, I know of one such individual who would lovingly take care of this equipment. (smile)

On a serious note, how many of us have a plan for our families to follow for the disposal of our equipment after our deaths? Even if the plan is as simple as contacting a specific ham friend who would appreciate the radios we have, it might save some very fine equipment from going into a landfill.

73.

John
WB0RXL

--- In DrakeRadio@yahoogroups.com, "Leigh" <bipi@...> wrote:
>
> Daniel,
>
> I have owned both C-Lines and S-Lines (still own my S-Line gear). For the money, the R4C and other Drake receivers are impossible to beat and several ways, IMHO, they out perform the 75S3C (especially the AGC). But, like any radios, the Collins shine as well, albiet differently. Both radios, when properly aligned, are wonderful to operate and perform very nicely.
>
> But you hit the nail on the head when you bring up the mechanical construction and "feel" of the Collins. That is hard to beat in any radio including todays radios. My Collins gear will go to grave with me.
>
> Happy Trails
>
> 73 de Mike
> K7PI
> http://home.comcast.net/~bipi/home.html
>

4118. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 01:39:24 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4118

I'll be lucky if the xyl doesn't just drop me in the land fill.

;-/

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of John [wb0rxl@...]
Sent: August 13, 2010 2:23 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Taking Equipment to the Grave

Dear Mr. Mike.

May I humbly suggest that instead of you taking your Collins radio equipment "to the grave" that just before your demise (may it be far into the future) you select some humble, poor, struggling, but VERY appreciative ham radio operator to either bequeath or sell your equipment to. As you can guess, I know of one such individual who would lovingly take care of this equipment. (smile)

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> 73 de Mike
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4119. Drake T-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 13:38:21 UTC
From: vk5abc
Topic: 4119 Message: 4119

Hello All
Anyone here got one of these critters, for that matter, is there a manual in captivity. How does it compare to the regular T-4XC.
How many of these did they make?

73 Lee

4120. Drake 2NT with Viking 122 VFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 13:04:46 UTC
From: paul_bock_jr
Topic: 4120 Message: 4120

Has anyone used a 2NT with a Viking 122 VFO, and if so were there any unusual problems/issues?

TNX DE K4MSG

4121. Drake 2-a Crystal Calibrator. Socket

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 13:58:21 UTC
From: w1fued@sbcglobal.net
Topic: 4121 Message: 4121

I have had my 2-a quite a while without a crystal calibrator. I recently bought a 2-ac calibrator, which has the standard 4 pin plugin base. The schematic for the 2-a shows a 4 pin socket as well. However, my 2-a has a large octal socket for the calibrator. I can of course, modify the calibrator for use, but the question is....

Is the large octal socket standard on the 2-a rx.? It sure looks original....then I guess they sold the calibrator with two different plugs over the years?

Thanks,

Ed

4122. Re: [DrakeRadio] Drake T-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 14:42:12 UTC
From: Garey Barrell
Topic: 4119 Message: 4122

Lee -

I don't think I've ever SEEN a T-4"C". The T-4 is relatively rare, and
I've only seen ONE T-4B in the last 50 years! :-)

There weren't many changes in the T-4X from the first to the last of the
series. The T-4, was just a T-4X with the PTO and BAND oscillator left
out. The PreMixer signal from the R-4(any) was brought in through the
INJ cable just like the T-4X for 'transceive' operation.

I suspect if you take a T-4XC schematic and just take out the PTO and
BAND circuitry, you'll have about 98% of a "T-4C" schematic!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

vk5abc wrote:
> Hello All
> Anyone here got one of these critters, for that matter, is there a manual in captivity.
How does it compare to the regular T-4XC.
> How many of these did they make?
>
> 73 Lee
>
>
>

4123. Re: [DrakeRadio] Drake 2-a Crystal Calibrator. Socket

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 14:47:18 UTC
From: Garey Barrell
Topic: 4121 Message: 4123

Ed -

The earliest 2-A manual I have shows the four pin CALIBRATOR socket. I don't have any record or information regarding a octal based calibrator from Drake. I suspect yours was modified to take one of the many octal based calibrators used in earlier receivers from other manufacturers.

I've been wrong before! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
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>
>
> Thanks,
>
> Ed
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>

4124. Re: [DrakeRadio] Drake 2NT with Viking 122 VFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 15:41:03 UTC
From: Garey Barrell
Topic: 4120 Message: 4124

Paul -

It should work fine. It MAY be necessary to short out R2, or reduce it's value, but not likely. Early 2-NTs had a 4.7k at R2, but it was reduced to 680 ohms to increase gain. The 122 should have plenty of output. Be sure the "hot" VFO lead goes into the correct Xtal socket pin! (It's the one on the right....)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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paul_bock_jr wrote:
> Has anyone used a 2NT with a Viking 122 VFO, and if so were there any unusual problems/issues?
>
> TNX DE K4MSG
>
>

4125. Re: [DrakeRadio] Drake 2NT with Viking 122 VFO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 16:54:46 UTC
From: phbjr@aol.com
Topic: 4120 Message: 4125

Thanks, Garey. I currently have neither piece of equipment on hand so was just asking, but.....I have owned & used several 122 VFOs with Viking II & Adventurer transmitters, Eico 723, etc., so I am aware of the interface modifications required in those various applications. I once had a 2NT for a short time but didn't use a VFO.

There are a couple of keying options that can be used with the 122 and with the Adventurer I was able to construct a control box that allowed me to select VFO keying (which I don't recommend except on 80m) or transmitter keying with the VFO running all the time. I used a single TX/RX switch to switch the antenna, mute the receiver, provide a sidetone, etc., etc. BUT since the 2NT has what amounts to a break-in keying system with sidetone oscillator the implementation should be simpler.

Now I just need to find a 2NT, and later to decide what VFO I'm going to use. Hmmm, maybe I'll just build one of the latter..... :-)

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

4126. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 21:34:44 UTC
From: Gary S
Topic: 4034 Message: 4126

Actually, Brenton, I think you misinterpreted ....

He's thinking his collins gear is his burial funding

From: Brenton Crowhurst <brenton.crowhurst@...>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Sat, 14 August, 2010 11:39:24 AM
Subject: RE: [DrakeRadio] Taking Equipment to the Grave

I'll be lucky if the xyl doesn't just drop me in the land fill.

;-/

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

4127. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 22:27:03 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4127

What a great idea! Take your Drakes to the grave and use the Collins equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Gary S
Sent: Saturday, August 14, 2010 4:35 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Actually, Brenton, I think you misinterpreted ....

He's thinking his collins gear is his burial funding

From: Brenton Crowhurst <brenton.crowhurst@...
<mailto:brenton.crowhurst%40albertahealthservices.ca> >
To: "DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> "
<DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
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I'll be lucky if the xyl doesn't just drop me in the land fill.

;-/

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of John
[wb0rxl@... <mailto:wb0rxl%40yahoo.com>]
Sent: August 13, 2010 2:23 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Taking Equipment to the Grave

Dear Mr. Mike.

May I humbly suggest that instead of you taking your Collins radio equipment
"to
the grave" that just before your demise (may it be far into the future) you
select some humble, poor, struggling, but VERY appreciative ham radio
operator
to either bequeath or sell your equipment to. As you can guess, I know of
one
such individual who would lovingly take care of this equipment. (smile)

On a serious note, how many of us have a plan for our families to follow for
the
disposal of our equipment after our deaths? Even if the plan is as simple as

contacting a specific ham friend who would appreciate the radios we have, it

might save some very fine equipment from going into a landfill.

73.

John
WB0RXL

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>, "Leigh"
<bipi@...> wrote:
>

> Daniel,
>
> I have owned both C-Lines and S-Lines (still own my S-Line gear). For the
>money, the R4C and other Drake receivers are impossible to beat and several

>ways, IMHO, they out perform the 75S3C (especially the AGC). But, like any
>radios, the Collins shine as well, albiet differently. Both radios, when
>properly aligned, are wonderful to operate and perform very nicely.
>
> But you hit the nail on the head when you bring up the mechanical
construction
>and "feel" of the Collins. That is hard to beat in any radio including
todays
>radios. My Collins gear will go to grave with me.
>
> Happy Trails
>
> 73 de Mike
> K7PI
> http://home.comcast.net/~bipi/home.html
>

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Yahoo! Groups Links

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[Non-text portions of this message have been removed]

4128. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 22:34:21 UTC
From: LEE BAHR
Topic: 4034 Message: 4128

I've got a Hallicrafters S-38C and a Globe Scout 40A. Got any idea what kind of funeral I can have with these cream puffs? Just want to know while I can still think about it. (Maybe I'll have to sweeten the pot a bit if the above doesn't cover gold handles).

I actually heard about some guy wanting to get buried in his Collins KW-1 transmitter or maybe he actually did get buried in it.

Lee, w0vt

What a great idea! Take your Drakes to the grave and use the Collins
equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

[Non-text portions of this message have been removed]

4129. Relay replacement for T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 22:41:31 UTC
From: w5rkl
Topic: 4129 Message: 4129

Anyone know of a replacement relay for the T4XB?

73s
Mike
W5RKL

4130. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 23:08:48 UTC
From: William Houghton
Topic: 4034 Message: 4130

I think from the S-38C and the Globe Scout your next of kin might be able to get you a body bag.

From: LEE BAHR <pulsarxp@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, August 14, 2010 3:34:21 PM
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

I've got a Hallicrafters S-38C and a Globe Scout 40A. Got any idea what kind of funeral I can have with these cream puffs? Just want to know while I can still think about it. (Maybe I'll have to sweeten the pot a bit if the above doesn't cover gold handles).

I actually heard about some guy wanting to get buried in his Collins KW-1 transmitter or maybe he actually did get buried in it.

Lee, w0vt

What a great idea! Take your Drakes to the grave and use the Collins equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4131. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 23:19:19 UTC
From: Dennis Weal
Topic: 4034 Message: 4131

Or maybe a cardboard box and a used Weber grill.

I wonder what voltages are available within the Pearly Gates.

I wonder if OOPS has delivery service available.....Hmmmmm

Denny

W4EAL

----- Original Message -----
From: William Houghton
Sent: 08/14/10 07:08 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

I think from the S-38C and the Globe Scout your next of kin might be able to get you a body bag. _____ From: LEE BAHR <pulsarxp@...> To: DrakeRadio@yahoogroups.com Sent: Sat, August 14, 2010 3:34:21 PM Subject: Re: [DrakeRadio] Taking Equipment to the Grave I've got a Hallicrafters S-38C and a Globe Scout 40A. Got any idea what kind of funeral I can have with these cream puffs? Just want to know while I can still think about it. (Maybe I'll have to sweeten the pot a bit if the above doesn't cover gold handles). I actually heard about some guy wanting to get buried in his Collins KW-1 transmitter or maybe he actually did get buried in it. Lee, w0vt

[Non-text portions of this message have been removed]

4132. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 23:51:48 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4132

If one opts to be cremated, they could choose to be poured/scooped into a matched set of 6JB6's...

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of William Houghton
Sent: Saturday, August 14, 2010 6:09 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

I think from the S-38C and the Globe Scout your next of kin might be able to get you a body bag.

From: LEE BAHR <pulsarxp@... <mailto:pulsarxp%40embarqmail.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Sat, August 14, 2010 3:34:21 PM
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

I've got a Hallicrafters S-38C and a Globe Scout 40A. Got any idea what kind of funeral I can have with these cream puffs? Just want to know while I can still think about it. (Maybe I'll have to sweeten the pot a bit if the above doesn't cover gold handles).

I actually heard about some guy wanting to get buried in his Collins KW-1 transmitter or maybe he actually did get buried in it.

Lee, w0vt

What a great idea! Take your Drakes to the grave and use the Collins equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

4133. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-14 23:26:53 UTC
From: Richard Knoppow
Topic: 4034 Message: 4133

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, August 14, 2010 3:34 PM
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

> I've got a Hallicrafters S-38C and a Globe Scout 40A. Got
> any idea what kind of funeral I can have with these cream
> puffs? Just want to know while I can still think about
> it. (Maybe I'll have to sweeten the pot a bit if the
> above doesn't cover gold handles).
>
> I actually heard about some guy wanting to get buried in
> his Collins KW-1 transmitter or maybe he actually did get
> buried in it.
>
> Lee, w0vt

Who was it that was buried in their Cadillac??

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4134. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 01:22:02 UTC
From: Dan Galligan
Topic: 4034 Message: 4134

Folks, I must say, this has been an entertaining subject. As someone who is in process of dealing with the aftermath of someone who collected a great deal of "stuff", of varying degrees of value, it was a pleasant respite, to laugh at this.
Thank you for the levity.
Dan Galligan
w3rxo@...
w3rxo@arrl.net

When the last dutiful & humble petition from Congress received no other answer than declaring us rebels, and out of the King’s protection, I from that moment looked forward to a revolution & independence, as the only means of salvation; and will risque the last penny of my fortune, & the last drop of my blood upon the issue.
George Mason,
2 October 1778
Such was the love and dedication, our forefathers had for this great nation. Too bad, today's leaders wish to flush that all down the sewer.

4135. Re: [DrakeRadio] Relay replacement for T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 01:58:51 UTC
From: Garey Barrell
Topic: 4129 Message: 4135

Mike -

Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has any of them left or not. Small PC board that mounts over the feedthrough insulators of the old relay, and has the 'standard' P & B plug-in relay, R10-E1-Y4-V2.5k.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Anyone know of a replacement relay for the T4XB?
>
> 73s
> Mike
> W5RKL
>
>

4136. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 02:13:44 UTC
From: ALAN PHILLIPS
Topic: 4034 Message: 4136

If I can"t take my TR4 with I'm not going. But what about that gap antenna. Hmnn.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@...> wrote:

From: Jim Chaggaris <jimc@...>
Subject: RE: [DrakeRadio] Taking Equipment to the Grave
To: DrakeRadio@yahoogroups.com
Date: Saturday, August 14, 2010, 5:27 PM

What a great idea! Take your Drakes to the grave and use the Collins

equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

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Suite 203

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delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On

Behalf Of Gary S

Sent: Saturday, August 14, 2010 4:35 PM

To: DrakeRadio@yahoogroups.com

Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Actually, Brenton, I think you misinterpreted ....

He's thinking his collins gear is his burial funding

From: Brenton Crowhurst <brenton.crowhurst@...

<mailto:brenton.crowhurst%40albertahealthservices.ca> >

To: "DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> "

<DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >

Sent: Sat, 14 August, 2010 11:39:24 AM

Subject: RE: [DrakeRadio] Taking Equipment to the Grave

I'll be lucky if the xyl doesn't just drop me in the land fill.

;-/

Brenton Crowhurst, PhD, RPsych

Psychologist

Rockyview General Hospital

Calgary, AB

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

[DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On

Behalf Of John

[wb0rxl@... <mailto:wb0rxl%40yahoo.com>]

Sent: August 13, 2010 2:23 PM

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

Subject: [DrakeRadio] Taking Equipment to the Grave

Dear Mr. Mike.

May I humbly suggest that instead of you taking your Collins radio equipment "to
the grave" that just before your demise (may it be far into the future) you select some humble, poor, struggling, but VERY appreciative ham radio operator
to either bequeath or sell your equipment to. As you can guess, I know of one
such individual who would lovingly take care of this equipment. (smile)

On a serious note, how many of us have a plan for our families to follow for the
disposal of our equipment after our deaths? Even if the plan is as simple as contacting a specific ham friend who would appreciate the radios we have, it might save some very fine equipment from going into a landfill.

73.

John

WB0RXL

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> <mailto:DrakeRadio%40yahoogroups.com>, "Leigh"
<bipi@...> wrote:

>

> Daniel,

>

> I have owned both C-Lines and S-Lines (still own my S-Line gear). For the >money, the R4C and other Drake receivers are impossible to beat and several >ways, IMHO, they out perform the 75S3C (especially the AGC). But, like any >radios, the Collins shine as well, albiet differently. Both radios, when

>properly aligned, are wonderful to operate and perform very nicely.

>

> But you hit the nail on the head when you bring up the mechanical

construction

>and "feel" of the Collins. That is hard to beat in any radio including

todays

>radios. My Collins gear will go to grave with me.

>

> Happy Trails

>

> 73 de Mike

> K7PI

> http://home.comcast.net/~bipi/home.html

>

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4137. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 02:25:08 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4137

Hi Al,

I know what you mean. My B-Line will be by my side…

Still have those spinners available?

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS
Sent: Saturday, August 14, 2010 9:14 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Taking Equipment to the Grave

If I can"t take my TR4 with I'm not going. But what about that gap antenna. Hmnn.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@pwrone.com <mailto:jimc%40pwrone.com> > wrote:

From: Jim Chaggaris <jimc@pwrone.com <mailto:jimc%40pwrone.com> >
Subject: RE: [DrakeRadio] Taking Equipment to the Grave

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Date: Saturday, August 14, 2010, 5:27 PM

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From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On

Behalf Of Gary S

Sent: Saturday, August 14, 2010 4:35 PM

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Actually, Brenton, I think you misinterpreted ....

He's thinking his collins gear is his burial funding

From: Brenton Crowhurst <brenton.crowhurst@...
<mailto:brenton.crowhurst%40albertahealthservices.ca>

<mailto:brenton.crowhurst%40albertahealthservices.ca> >

To: "DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
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Psychologist

Rockyview General Hospital

Calgary, AB

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[DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
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Behalf Of John

[wb0rxl@... <mailto:wb0rxl%40yahoo.com> <mailto:wb0rxl%40yahoo.com>]

Sent: August 13, 2010 2:23 PM

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>

Subject: [DrakeRadio] Taking Equipment to the Grave

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to either bequeath or sell your equipment to. As you can guess, I know of one
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On a serious note, how many of us have a plan for our families to follow for the
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73.
John
WB0RXL
--- In DrakeRadio@...m <mailto:DrakeRadio%40yahoogroups.com> <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>, "Leigh"
<bipi@...> wrote:
>
> Daniel,
>
> I have owned both C-Lines and S-Lines (still own my S-Line gear). For the
>money, the R4C and other Drake receivers are impossible to beat and several
>ways, IMHO, they out perform the 75S3C (especially the AGC). But, like any
>radios, the Collins shine as well, albiet differently. Both radios, when
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> Happy Trails

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> 73 de Mike

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> http://home.comcast.net/~bipi/home.html

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4138. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 02:34:57 UTC
From: Dan Galligan
Topic: 4034 Message: 4138

Do I take my "2B", my "B" Line, my "C" Line, my L-4B, or my UV-3? OR, do I take ALL of the above? How's my family gonna fit all of them in the coffin? And, who's going to pay for the security, to keep all you other Drake fans from grave-robbing?
Dan Galligan
w3rxo@...
w3rxo@...

4139. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:25:13 UTC
From: ALAN PHILLIPS
Topic: 4034 Message: 4139

Hi Jim:
Got 3 left.

Are you going to dayton next year, I need some people to go with?

Al.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@...> wrote:

From: Jim Chaggaris <jimc@...>
Subject: RE: [DrakeRadio] Taking Equipment to the Grave
To: DrakeRadio@yahoogroups.com
Date: Saturday, August 14, 2010, 9:25 PM

Hi Al,

I know what you mean. My B-Line will be by my side…

Still have those spinners available?

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

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delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS

Sent: Saturday, August 14, 2010 9:14 PM

To: DrakeRadio@yahoogroups.com

Subject: RE: [DrakeRadio] Taking Equipment to the Grave

If I can"t take my TR4 with I'm not going. But what about that gap antenna. Hmnn.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@pwrone.com <mailto:jimc%40pwrone.com> > wrote:

From: Jim Chaggaris <jimc@pwrone.com <mailto:jimc%40pwrone.com> >

Subject: RE: [DrakeRadio] Taking Equipment to the Grave

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

Date: Saturday, August 14, 2010, 5:27 PM

What a great idea! Take your Drakes to the grave and use the Collins

equipment to pay for the burial ceremony..

Of course this wouldn't work if you opt for cremation.. J

73,

Jim N9WW

James Chaggaris

President

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From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On Behalf Of Gary S

Sent: Saturday, August 14, 2010 4:35 PM

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Actually, Brenton, I think you misinterpreted ....

He's thinking his collins gear is his burial funding

From: Brenton Crowhurst <brenton.crowhurst@... <mailto:brenton.crowhurst%40albertahealthservices.ca>

<mailto:brenton.crowhurst%40albertahealthservices.ca> >

To: "DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> <mailto:DrakeRadio%40yahoogroups.com> "

<DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> <mailto:DrakeRadio%40yahoogroups.com> >

Sent: Sat, 14 August, 2010 11:39:24 AM

Subject: RE: [DrakeRadio] Taking Equipment to the Grave

I'll be lucky if the xyl doesn't just drop me in the land fill.

;-/

Brenton Crowhurst, PhD, RPsych

Psychologist

Rockyview General Hospital

Calgary, AB

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>

[DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>] On

Behalf Of John

[wb0rxl@... <mailto:wb0rxl%40yahoo.com> <mailto:wb0rxl%40yahoo.com>]

Sent: August 13, 2010 2:23 PM

To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>

Subject: [DrakeRadio] Taking Equipment to the Grave

Dear Mr. Mike.

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the grave" that just before your demise (may it be far into the future) you

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to either bequeath or sell your equipment to. As you can guess, I know of

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WB0RXL

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4140. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:34:23 UTC
From: Jim Chaggaris
Topic: 4034 Message: 4140

Hi Al,

Save 2 for me. I will pick them up tomorrow if you're around.

Dayton…May 20-22nd. Yes I will be going! Finally…

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS
Sent: Saturday, August 14, 2010 10:25 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Taking Equipment to the Grave

Hi Jim:
Got 3 left.

Are you going to dayton next year, I need some people to go with?

Al.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@... <mailto:jimc%40pwrone.com> > wrote:

From: Jim Chaggaris <jimc@... <mailto:jimc%40pwrone.com> >
Subject: RE: [DrakeRadio] Taking Equipment to the Grave
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
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Sent: Saturday, August 14, 2010 4:35 PM

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4141. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:37:25 UTC
From: ALAN PHILLIPS
Topic: 4034 Message: 4141

tommorow afternoon is fine. Do you have my cell number?
..al.

--- On Sat, 8/14/10, Jim Chaggaris <jimc@...> wrote:

From: Jim Chaggaris <jimc@...>
Subject: RE: [DrakeRadio] Taking Equipment to the Grave
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4142. Drake filter caps, etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:43:37 UTC
From: phbjr@aol.com
Topic: 4142 Message: 4142

I know that Unique Radio Parts closed up shop a couple of years ago, but they used to sell filter cap boards + caps to replace the can caps in the R-4 series and 2B receivers.

Does anyone have a mask or template of the actual board(s) that I could use to etch my own one-off PCBs to replace the cans in a 2B and an R-4? I understand that we're no doubt talking about two different PCBs for the two receivers.

Also, does anyone know of a source of the blue light-filtering material for the R-4 series dials?

TNX in advance.

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

4143. Re: Relay replacement for T4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:55:39 UTC
From: w5rkl
Topic: 4129 Message: 4143

Hi Garey,

I'm not familiar with John Kriner's relay upgrade.

I have a new R10-E1-Y4-V2.5K 4PDT relays. Isn't the T4XB relay a 250VDC coil relay or am I misreading the T4XB schematic? This relay is a direct drop in for the relay in the T4XC transmitter, I have one plugged into the T4XC relay socket that replaced the original Drake relay. It works very well.

I also have a Magnecraft 4PDT 782XDX3C relay that is a replacement for the Heathkit HW-101 relay. The coil resistance is 15.7K but the coil voltage is 240VAC/30VDC. The T4XB and HW-101 have the relay coils in series with the plate of the relay amplifier with 250VDC on the T4XB and 300VDC on the HW-101.

I assume that John's upgrade kit had a 4PDT relay socket mounted to the small PC board, the R10-E1-Y4-2.5K relay plugged into the socket then mounted as you said, then connected to the appropriate wires, is that correct?

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has
> any of them left or not. Small PC board that mounts over the
> feedthrough insulators of the old relay, and has the 'standard' P & B
> plug-in relay, R10-E1-Y4-V2.5k.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w5rkl wrote:
> > Anyone know of a replacement relay for the T4XB?
> >
> > 73s
> > Mike
> > W5RKL
> >
> >

>

4144. Re: [DrakeRadio] Drake filter caps, etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 03:56:36 UTC
From: ALAN PHILLIPS
Topic: 4142 Message: 4144

An alternative for the caps are being made by hayseedhamfest.com
This drake user makes replacement caps for drake equipment. they fit like the original cans do. I used replacements in my Tr4 and r4B with good success.

Blue material usually comes from a stage lighting supply house like eclipse lighting or barbizon. I have some of the plastic that comes in large sheets but is thinner than the original. I'm sure that someone else on this forum will have the number of the Lee filter material as its called.

73's al kc9ys.

--- On Sat, 8/14/10, phbjr@... <phbjr@...> wrote:

From: phbjr@... <phbjr@...>
Subject: [DrakeRadio] Drake filter caps, etc.
To: DrakeRadio@yahoogroups.com
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Also, does anyone know of a source of the blue light-filtering

material for the R-4 series dials?

TNX in advance.

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4145. Re: [DrakeRadio] Drake filter caps, etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 04:43:44 UTC
From: Joe
Topic: 4142 Message: 4145

Lee Filter (HT)#172, Lagoon Blue. Any theatrical lighting distributor can get it for you.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <phbjr@...>
Subject: [DrakeRadio] Drake filter caps, etc.

> Also, does anyone know of a source of the blue light-filtering
> material for the R-4 series dials?

4146. Re: [DrakeRadio] Drake filter caps, etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 04:43:40 UTC
From: phbjr@aol.com
Topic: 4142 Message: 4146

Al, that's terrific, thanks! Checked out the site, they'll definitely be getting biz from me.

73/arf,

Paul, K4MSG

In a message dated 8/14/2010 11:56:40 P.M. Eastern Daylight Time, kc9ys@... writes:

An alternative for the caps are being made by hayseedhamfest.com
This drake user makes replacement caps for drake equipment. they fit like the original cans do. I used replacements in my Tr4 and r4B with good success.

Blue material usually comes from a stage lighting supply house like eclipse lighting or barbizon. I have some of the plastic that comes in large sheets but is thinner than the original. I'm sure that someone else on this forum will have the number of the Lee filter material as its called.

73's al kc9ys.

--- On Sat, 8/14/10, phbjr@... <phbjr@...> wrote:

From: phbjr@... <phbjr@...>
Subject: [DrakeRadio] Drake filter caps, etc.
To: DrakeRadio@yahoogroups.com
Date: Saturday, August 14, 2010, 10:43 PM

I know that Unique Radio Parts closed up shop a couple of years ago, but

they used to sell filter cap boards + caps to replace the can caps in the

R-4 series and 2B receivers.

Does anyone have a mask or template of the actual board(s) that I could

use to etch my own one-off PCBs to replace the cans in a 2B and an R-4?
I

understand that we're no doubt talking about two different PCBs for the
two

receivers.

Also, does anyone know of a source of the blue light-filtering

material for the R-4 series dials?

TNX in advance.

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4147. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 06:16:54 UTC
From: Dennis Weal
Topic: 4034 Message: 4147

I believe it was Elvis that got the Caddy deal.

Denny

W4EAL

----- Original Message ----- From: "LEE BAHR" <pulsarxp@...> To: <DrakeRadio@yahoogroups.com> Sent: Saturday, August 14, 2010 3:34 PM Subject: Re: [DrakeRadio] Taking Equipment to the Grave > I've got a Hallicrafters S-38C and a Globe Scout 40A. Got > any idea what kind of funeral I can have with these cream > puffs? Just want to know while I can still think about > it. (Maybe I'll have to sweeten the pot a bit if the > above doesn't cover gold handles). > > I actually heard about some guy wanting to get buried in > his Collins KW-1 transmitter or maybe he actually did get > buried in it. > > Lee, w0vt Who was it that was buried in their Cadillac?? -- Richard Knoppow Los Angeles WB6KBL dickburk@...

[Non-text portions of this message have been removed]

4148. Re: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 14:16:17 UTC
From: Kris Merschrod
Topic: 4034 Message: 4148

Dan - Burial at sea is the only option with all of those "Boat Anchors" you'd be in Davy Jones locker in no time and quite secure to boot.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Dan Galligan
To: DrakeRadio@yahoogroups.com
Sent: Saturday, August 14, 2010 10:34 PM
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Do I take my "2B", my "B" Line, my "C" Line, my L-4B, or my UV-3? OR, do I take ALL of the above? How's my family gonna fit all of them in the coffin? And, who's going to pay for the security, to keep all you other Drake fans from grave-robbing?
Dan Galligan
w3rxo@...
w3rxo@...

[Non-text portions of this message have been removed]

4149. Re: [DrakeRadio] Drake filter caps, etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 14:47:22 UTC
From: ALAN PHILLIPS
Topic: 4142 Message: 4149

Here is the link, the drake order list of caps is on this page if you scroll down.
 I just ordered my kit for my T4Xb, I already did my other drake gear 6 mo. ago.
The quality control is very good. Its a professionally made product.

Bye the way, I am the drake operator that supplies the 4 line bar knobs and the main tuning knob for the TR4 and 4 line. All new stock made in the USA. Please keep me in mind if you ever need knobs. Here is the LINK:

http://www.hayseedhamfest.com/capkit.htm

--- On Sat, 8/14/10, phbjr@... <phbjr@...> wrote:

From: phbjr@... <phbjr@...>
Subject: Re: [DrakeRadio] Drake filter caps, etc.
To: DrakeRadio@yahoogroups.com
Date: Saturday, August 14, 2010, 11:43 PM

Al, that's terrific, thanks! Checked out the site, they'll definitely be

getting biz from me.

73/arf,

Paul, K4MSG

In a message dated 8/14/2010 11:56:40 P.M. Eastern Daylight Time,

kc9ys@... writes:

An alternative for the caps are being made by hayseedhamfest.com

This drake user makes replacement caps for drake equipment. they fit like

the original cans do. I used replacements in my Tr4 and r4B with good

success.

Blue material usually comes from a stage lighting supply house like

eclipse lighting or barbizon. I have some of the plastic that comes in large

sheets but is thinner than the original. I'm sure that someone else on this

forum will have the number of the Lee filter material as its called.

73's al kc9ys.

--- On Sat, 8/14/10, phbjr@... <phbjr@...> wrote:

From: phbjr@... <phbjr@...>

Subject: [DrakeRadio] Drake filter caps, etc.

To: DrakeRadio@yahoogroups.com

Date: Saturday, August 14, 2010, 10:43 PM

I know that Unique Radio Parts closed up shop a couple of years ago, but they used to sell filter cap boards + caps to replace the can caps in the R-4 series and 2B receivers.

Does anyone have a mask or template of the actual board(s) that I could use to etch my own one-off PCBs to replace the cans in a 2B and an R-4? I understand that we're no doubt talking about two different PCBs for the two receivers.

Also, does anyone know of a source of the blue light-filtering material for the R-4 series dials?

TNX in advance.

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4150. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 20:42:01 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4150

Please just reassure us your friend was buried with a beloved Yaesu or Kenwood, leaving the good stuff, I mean, you know, the antiquated Drake and Collins junk for you to haul away!

;-)

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Dan Galligan [w3rxo@...]
Sent: August 14, 2010 7:22 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Folks, I must say, this has been an entertaining subject. As someone who is in process of dealing with the aftermath of someone who collected a great deal of "stuff", of varying degrees of value, it was a pleasant respite, to laugh at this.
Thank you for the levity.
Dan Galligan
w3rxo@...
w3rxo@...

When the last dutiful & humble petition from Congress received no other answer than declaring us rebels, and out of the King’s protection, I from that moment looked forward to a revolution & independence, as the only means of salvation; and will risque the last penny of my fortune, & the last drop of my blood upon the issue.
George Mason,
2 October 1778
Such was the love and dedication, our forefathers had for this great nation. Too bad, today's leaders wish to flush that all down the sewer.

Yahoo! Groups Links

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4151. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 20:44:14 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4151

C'mon, man, what good is grave robbin if there ain't nuthin' good down there?!

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Dan Galligan [w3rxo@...]
Sent: August 14, 2010 8:34 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Do I take my "2B", my "B" Line, my "C" Line, my L-4B, or my UV-3? OR, do I take ALL of the above? How's my family gonna fit all of them in the coffin? And, who's going to pay for the security, to keep all you other Drake fans from grave-robbing?
Dan Galligan
w3rxo@...<mailto:w3rxo%40mac.com>
w3rxo@...<mailto:w3rxo%40arrl.net>

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4152. RE: [DrakeRadio] Taking Equipment to the Grave

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-15 21:07:17 UTC
From: Brenton Crowhurst
Topic: 4034 Message: 4152

That solves the grave robbing problem!

Dan - Burial at sea is the only option with all of those "Boat Anchors" you'd be in Davy Jones locker in no time and quite secure to boot.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Dan Galligan
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Sent: Saturday, August 14, 2010 10:34 PM
Subject: Re: [DrakeRadio] Taking Equipment to the Grave

Do I take my "2B", my "B" Line, my "C" Line, my L-4B, or my UV-3? OR, do I take ALL of the above? How's my family gonna fit all of them in the coffin? And, who's going to pay for the security, to keep all you other Drake fans from grave-robbing?
Dan Galligan
w3rxo@...<mailto:w3rxo%40mac.com>
w3rxo@...<mailto:w3rxo%40arrl.net>

[Non-text portions of this message have been removed]

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4153. DRAKE SPR-4 Frequency Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-16 08:33:21 UTC
From: Hans-Joachim Empel
Topic: 4153 Message: 4153

Hello to the Group ,

i have a frequency counter aqnd i will use this small counter to read out the rx - frequncy of my SPR-4.

the counter is free programmable !!!!!

Is there any other way to read out the frequency of my SPR - 4 without the TA - 4 board.

I have a TA - 4 board , but i am not realy shure , its a homebrewed board from one of the uggly modified SPR-4 RX before restauration.

Every Idear ore Information are welcome.

Regards from Germany

Joachim DL2388RB

[Non-text portions of this message have been removed]

4154. Older Drake 4-series main tuning knob

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 02:19:05 UTC
From: phbjr@aol.com
Topic: 4154 Message: 4154

Does anyone have (and be willing to sell) the older black-knob-with-skirt main tuning knob for a Drake R-4 or R-4A?

Paul, K4MSG

[Non-text portions of this message have been removed]

4155. Fw: DRAKE SPR-4 Frequency Readout with frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 05:25:14 UTC
From: Hans-Joachim Empel
Topic: 4155 Message: 4155

Hello to the Group ,

i have a frequency counter and i will use this small frequncy counter to read out the rx - frequncy of my SPR-4.

the counter is free programmable !!!!!

Is there any other way to read out the frequency of my SPR - 4 without the TA - 4 board.

I have a TA - 4 board , but i am not realy shure , its a homebrewed board from one of the uggly modified SPR-4 RX before restauration.

Every Idear ore Information are welcome.

Regards from Germany

Joachim DL2388RB

[Non-text portions of this message have been removed]

4156. DRAKE SPR4 and Frequency Synthesizer

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 17:44:35 UTC
From: Hans-Joachim Empel
Topic: 4156 Message: 4156

Hello to the Group ,

i build for my SPR4 my own Synthesizer to receive from 200kHz to 30MHz.

My problem in the moment is following :

I need the Preselector settings and the Range settings for the whole frequency range.

If somebody has this settings as PDF ore Wordfile , please send me.

Kind regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4157. Blue filtering material

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 17:38:39 UTC
From: joeylefty74
Topic: 4157 Message: 4157

I found a source online for Lee Filters Blue Lagoon #172 in
21 by 24 inch sheets for $6.50.
www.filmtools.com

Joey
ka4wjb

4158. Re: [DrakeRadio] Blue filtering material

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 18:22:45 UTC
From: jerrywk1@comcast.net
Topic: 4157 Message: 4158

Thanks I jut ordered some

been looking all over for these

73

jerry

wb9jfr
----- Original Message -----
From: "joeylefty74" <joe@timcoengr.com>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, August 17, 2010 12:38:39 PM
Subject: [DrakeRadio] Blue filtering material

I found a source online for Lee Filters Blue Lagoon #172 in
21 by 24 inch sheets for $6.50.
www.filmtools.com

Joey
ka4wjb

[Non-text portions of this message have been removed]

4159. Re: Blue filtering material

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 19:09:45 UTC
From: joeylefty74
Topic: 4157 Message: 4159

I ordered one too. The shipping costs more than the sheet of plastic but is still cheaper than driving 100 miles one way to the nearest dealer.

Joey
ka4wjb

--- In DrakeRadio@yahoogroups.com, jerrywk1@... wrote:
>
>
>
> ThanksÂ I jut ordered some
>
> been looking all over for these
>
>
>
> 73
>
> jerry
>
> wb9jfr
> ----- Original Message -----
> From: "joeylefty74" <joe@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, August 17, 2010 12:38:39 PM
> Subject: [DrakeRadio] Blue filtering material
>
> Â
>
>
>
>
> I found a source online for Lee Filters Blue Lagoon #172 in
> 21 by 24 inch sheets for $6.50.
> www.filmtools.com
>
> Joey
> ka4wjb
>
>
>
>
> [Non-text portions of this message have been removed]
>

4160. Re: [DrakeRadio] Re: Blue filtering material

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 19:17:21 UTC
From: jerrywk1@comcast.net
Topic: 4157 Message: 4160

I agree

it would cost me more in gas to drive downtown chicago from the sw suburbs

i ordered 2 sheets

jerry

----- Original Message -----
From: "joeylefty74" <joe@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, August 17, 2010 2:09:45 PM
Subject: [DrakeRadio] Re: Blue filtering material

I ordered one too. The shipping costs more than the sheet of plastic but is still cheaper than driving 100 miles one way to the nearest dealer.

Joey
ka4wjb

--- In DrakeRadio@yahoogroups.com , jerrywk1@... wrote:
>
>
>
> ThanksÂ I jut ordered some
>
> been looking all over for these
>
>
>
> 73
>
> jerry
>
> wb9jfr
> ----- Original Message -----
> From: "joeylefty74" <joe@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, August 17, 2010 12:38:39 PM
> Subject: [DrakeRadio] Blue filtering material
>
> Â
>
>
>
>
> I found a source online for Lee Filters Blue Lagoon #172 in

> 21 by 24 inch sheets for $6.50.
> www.filmtools.com
>
> Joey
> ka4wjb
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4161. Lagoon Blue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 23:34:34 UTC
From: phbjr@aol.com
Topic: 4161 Message: 4161

Well, it looks like all of the Drake owners are making a run on the Lee #
172 Lagoon Blue gel sheet. I ordered a couple this afternoon and got the
following message back:

"Thank you for your recent FilmTools order. Unfortunately, we are
currently out of stock on item #96 Lee Gel Sheet Lagoon Blue S172. We expect
to receive this item in approximately 2-3 business days and will ship
immediately upon receipt."

:-)

Paul, K4MSG

[Non-text portions of this message have been removed]

4162. Re: [DrakeRadio] Lagoon Blue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-17 23:45:49 UTC
From: Joe
Topic: 4161 Message: 4162

Truth be told, only one of you should have purchased, then cut the sheet
into equal pieces for all who wanted. You are only going to use a very
small corner of that big sheet!
And you will have lost the roll of gel by the time you decide to replace the
faded blue film again! <GRIN>

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <phbjr@...>
Subject: [DrakeRadio] Lagoon Blue

> Well, it looks like all of the Drake owners are making a run on the Lee #
> 172 Lagoon Blue gel sheet. I ordered a couple this afternoon and got the
> following message back:
>
> "Thank you for your recent FilmTools order. Unfortunately, we are
> currently out of stock on item #96 Lee Gel Sheet Lagoon Blue S172. We
> expect
> to receive this item in approximately 2-3 business days and will ship
> immediately upon receipt."

4163. RE: [DrakeRadio] Lagoon Blue

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 00:09:15 UTC
From: Jim Chaggaris
Topic: 4161 Message: 4163

Joe,

I suspect you'll see the extra gel pieces showing up on Ebay.<GRIN>

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Joe
Sent: Tuesday, August 17, 2010 6:46 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Lagoon Blue

Truth be told, only one of you should have purchased, then cut the sheet into equal pieces for all who wanted. You are only going to use a very small corner of that big sheet!
And you will have lost the roll of gel by the time you decide to replace the

faded blue film again! <GRIN>

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <phbjr@... <mailto:phbjr%40aol.com> >
Subject: [DrakeRadio] Lagoon Blue

> Well, it looks like all of the Drake owners are making a run on the Lee #
> 172 Lagoon Blue gel sheet. I ordered a couple this afternoon and got the
> following message back:
>
> "Thank you for your recent FilmTools order. Unfortunately, we are
> currently out of stock on item #96 Lee Gel Sheet Lagoon Blue S172. We
> expect
> to receive this item in approximately 2-3 business days and will ship
> immediately upon receipt."

[Non-text portions of this message have been removed]

4164. Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 08:02:14 UTC
From: Victor
Topic: 4164 Message: 4164

Just had a culture shock. Tried ordering some of that blue filter #172. Actual cost just over $6 - shipping to UK minimum $68. Cancelled the order.
Vic - G4JSS

4165. Re: [DrakeRadio] Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 08:10:29 UTC
From: Joe
Topic: 4164 Message: 4165

Vic.....

I am sure you can find a theatrical lighting supply house in Great Britain that can supply you with Lee filter gels. The Lee company is world wide and is based in Andover, Hampshire, England. Here is a phone number: (01264) 366245, FAX (01264) 355058.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Victor" <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, August 18, 2010 1:02 AM
Subject: [DrakeRadio] Blue filter

> Just had a culture shock. Tried ordering some of that blue filter #172.
> Actual cost just over $6 - shipping to UK minimum $68. Cancelled the
> order.
> Vic - G4JSS

4166. Re: [DrakeRadio] Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 08:22:14 UTC
From: Hans-Joachim Empel
Topic: 4164 Message: 4166

Good Morining to UK ,
i am from Germany and i have some blue Filtermaterial (Plasticfoil).
i used this on my TR -7
If you are interested , please tell me , i am sending over from Germany.

Regards
Joachim
DL2388RB

----- Original Message -----
From: "Victor" <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, August 18, 2010 10:02 AM
Subject: [DrakeRadio] Blue filter

> Just had a culture shock. Tried ordering some of that blue filter #172.
> Actual cost just over $6 - shipping to UK minimum $68. Cancelled the
> order.
> Vic - G4JSS
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4167. Re: [DrakeRadio] Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 10:24:44 UTC
From: g4jss@tiscali.co.uk
Topic: 4164 Message: 4167

Joe

Didn't know that. Will give them a try.

Hells bells you're an early riser!!

Thanks.

Vic

[Non-text portions of this message have been removed]

4168. Re: [DrakeRadio] Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 11:55:23 UTC
From: phbjr@aol.com
Topic: 4164 Message: 4168

Vic,

I ordered a couple of sheets. After I get mine I'll cut out some
oversize sections and mail them to you as a "gift."

73,

Paul, K4MSG

In a message dated 8/18/2010 4:02:21 A.M. Eastern Daylight Time,
g4jss@... writes:

Just had a culture shock. Tried ordering some of that blue filter #172.
Actual cost just over $6 - shipping to UK minimum $68. Cancelled the order.
Vic - G4JSS

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4169. Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 12:15:44 UTC
From: ming kwong
Topic: 4169 Message: 4169

Hello,
Is there anybody know where can buy the filp-flop IC 923 (IC1 and IC2). My R-4B marker doesn't work, it seem to be the ICs is malfunction.
I found a web site selling this IC, I sent an e-mail to him but no reply. The web sit is there : http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.htm
I hope there have someone can help me buy this one.
Thanks,
mkchan

4170. Re: [DrakeRadio] Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 13:59:14 UTC
From: Garey Barrell
Topic: 4169 Message: 4170

That is the only source I know of for the 923 ICs. He may be 'out'.

Have you checked the power supply for these ICs? It has two problematic electrolytic capacitors and supplies power ONLY to the Calibrator divider chain. Rectified and filtered from the filament supply.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

ming kwong wrote:
> Hello,
> Is there anybody know where can buy the filp-flop IC 923 (IC1 and IC2). My R-4B marker doesn't work, it seem to be the ICs is malfunction.
> I found a web site selling this IC, I sent an e-mail to him but no reply. The web sit is there : http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.htm
> I hope there have someone can help me buy this one.
> Thanks,
> mkchan
>
>
>

4171. RE: [DrakeRadio] Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 14:17:07 UTC
From: Jim Chaggaris
Topic: 4169 Message: 4171

Gary,

I bought a couple of the 923's to have as backup about a month ago so I think they still have them.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, August 18, 2010 8:59 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake R-4B marker dead

That is the only source I know of for the 923 ICs. He may be 'out'.

Have you checked the power supply for these ICs? It has two problematic electrolytic capacitors and supplies power ONLY to the Calibrator divider chain. Rectified and filtered from the filament supply.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

ming kwong wrote:
> Hello,
> Is there anybody know where can buy the filp-flop IC 923 (IC1 and IC2). My R-4B marker doesn't work, it seem to be the ICs is malfunction.

> I found a web site selling this IC, I sent an e-mail to him but no reply.
The web sit is there :
http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.h
tm
> I hope there have someone can help me buy this one.
> Thanks,
> mkchan
>
>
>

[Non-text portions of this message have been removed]

4173. "New" 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 16:50:32 UTC
From: phbjr@aol.com
Topic: 4173 Message: 4173

Just received Drake 2B s/n 2052. It's in quite nice condition for a radio of that vintage and seems to work just fine, plenty of signals audible and it is stable, no odd smells of overheating, etc. FP & cabinet are clean with only a few minor paint dings along the front edge of the cabinet. The chassis is clean, no obvious serious rust or corrosion, just that greenish patina that copper develops over the years.

The previous owner had the receiver for many years (although not the original owner) but used it only rarely and never had it serviced or aligned. For all I know it may still have all the original tubes (the ones I can see without removing the cabinet say "RCA").

Plan is to do some light cleaning of the cabinet & FP (very little required), install a re-cap kit, Deoxit the switches & pots, install a new tube set (keeping the old ones as spares), and touch up the alignment.

This radio is actually probably older than my first 2B, which I bought (IIRC) in '63. I've owned a couple of others since but stupidly let them get away, so this one is a "keeper". :-)

Paul, K4MSG

[Non-text portions of this message have been removed]

4174. Re: Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 17:06:54 UTC
From: mike
Topic: 4164 Message: 4174

I have a sheet of Lee Filters "Blue Lagoon" #172.

I am happy to send pieces to anyone who would like some if you send me an SAE (A3).

Be warned though, that it is not EXACTLY identical in hue to the original.

Mike
M0MLM

--- In DrakeRadio@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Just had a culture shock. Tried ordering some of that blue filter #172. Actual cost just over $6 - shipping to UK minimum $68. Cancelled the order.
> Vic - G4JSS
>

4175. Re: [DrakeRadio] "New" 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 17:06:09 UTC
From: Don Cunningham
Topic: 4173 Message: 4175

Paul,
Just my opinion, and it's not worth a lot, hi, but I would NEVER replace a tube that is working in a receiver. I buy the "new set" to keep as spares and let the originals work as long as they want to. These tube sets are NOS as well as what is in your 2B right now, so as likely to be bad as the originals. Like I said, just my opinion, and didn't cost you a cent!! Touching up the alignment after re-capping is a good idea. Many old rigs have been "re-aligned" to mask other problems.
73, and enjoy your 2B. I have a nice one and rarely turn it on anymore. Just too many rigs, hi.
Don, WB5HAK

[Non-text portions of this message have been removed]

4176. Re: [DrakeRadio] "New" 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 17:44:49 UTC
From: phbjr@aol.com
Topic: 4173 Message: 4176

Don, in retrospect you're probably right about the tubes, i.e., if it ain't broke don't fix it. I'll buy one of the NOS sets for spares and probably pick up an extra or two of the rarest ones as well.

This radio included the original manual - a little dog-eared, to be sure - but it's always nice from the collectibility standpoint to have an original instead of a copy.

73/Arf,

Paul, K4MSG

In a message dated 8/18/2010 1:25:53 P.M. Eastern Daylight Time, donc@... writes:

Paul,
Just my opinion, and it's not worth a lot, hi, but I would NEVER replace a tube that is working in a receiver. I buy the "new set" to keep as spares and let the originals work as long as they want to. These tube sets are NOS as well as what is in your 2B right now, so as likely to be bad as the originals. Like I said, just my opinion, and didn't cost you a cent!!
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Just too many rigs, hi.
Don, WB5HAK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4177. *New* 2B - I won't change the tubes!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 18:17:33 UTC
From: phbjr@aol.com
Topic: 4177 Message: 4177

Wasn't thinking, should have known better (I grew up on tubes; I even know what an Eg-Ip curve is!). Check voltages & power supply ripple before starting; re-cap, check voltages & ripple again plus overall operation; clean switches, re-check; clean tube sockets ONE AT A TIME, re-check; touch up alignment carefully, re-check. Keep NOS tube set as spares if ever needed.

73/Arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

4178. Re: [DrakeRadio] "New" 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 18:29:01 UTC
From: Garey Barrell
Topic: 4173 Message: 4178

Don, Paul -

Agreed! IF you have 'new' tubes, there is nothing wrong with replacing an existing tube, readjusting the appropriate alignment, and seeing if the 'new' tube is better! If it IS better, decide if it's enough better to warrant the change, and put the 'other' tube in the spares stash. If no change, leave the original in place and know that you have a tested spare available.

The most troublesome tubes in the 2-B are the 6U8, (replace with 6EA8,) and the 12BA6s, which get 'gassy', sometimes even NOS. A 6U8 may result in a 'dead' 40M crystal, and gassy 12BA6s result in 'wandering' AVC. Also, don't let them sell you a 6BN8, it MUST be an 8BN8. If you want the reason why, see my article on WB4HFN!

Certainly an 'iconic' receiver, one of the best ever made by anybody!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Paul,
> Just my opinion, and it's not worth a lot, hi, but I would NEVER replace a tube that is working in a receiver. I buy the "new set" to keep as spares and let the originals work as long as they want to. These tube sets are NOS as well as what is in your 2B right now, so as likely to be bad as the originals. Like I said, just my opinion, and didn't cost you a cent!! Touching up the alignment after re-capping is a good idea. Many old rigs have been "re-aligned" to mask other problems.
> 73, and enjoy your 2B. I have a nice one and rarely turn it on anymore. Just too many rigs, hi.
> Don, WB5HAK
>
>

4179. Re: [DrakeRadio] Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:04:01 UTC
From: Garey Barrell
Topic: 4169 Message: 4179

Jim -

Maybe you got the last ones!! Or maybe he's on vacation. Or he doesn't
want to ship to Hong Kong?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Chaggaris wrote:
> Gary,
>
>
>
> I bought a couple of the 923's to have as backup about a month ago so I
> think they still have them.
>
>
>
> 73,
>
> Jim N9WW
>
>
>
> James Chaggaris
>
> President
>
> PowerOne Corp./PowerOne Environmental
>
> 1020 Cedar Ave. Suite 203
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> St. Charles, IL 60174
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> Cell: 630-669-2241
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> Fax: 630-443-6505
>
> Website: www.pwrone.com
>
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>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell
> Sent: Wednesday, August 18, 2010 8:59 AM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Drake R-4B marker dead
>
>
>
>
>
> That is the only source I know of for the 923 ICs. He may be 'out'.
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> Have you checked the power supply for these ICs? It has two problematic
> electrolytic capacitors and supplies power ONLY to the Calibrator
> divider chain. Rectified and filtered from the filament supply.
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> 73, Garey - K4OAH
> Glen Allen, VA
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> ming kwong wrote:
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>> Hello,
>> Is there anybody know where can buy the filp-flop IC 923 (IC1 and IC2). My
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> R-4B marker doesn't work, it seem to be the ICs is malfunction.
>
>> I found a web site selling this IC, I sent an e-mail to him but no reply.
>>
> The web sit is there :
> http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.h
> tm
>
>> I hope there have someone can help me buy this one.
>> Thanks,
>> mkchan
>>
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4180. Re: Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:24:17 UTC
From: joeylefty74
Topic: 4164 Message: 4180

Is the color close to original?

Joey
ka4wjb

--- In DrakeRadio@yahoogroups.com, "mike" <mikemillen@...> wrote:
>
>
>
>
> I have a sheet of Lee Filters "Blue Lagoon" #172.
>
> I am happy to send pieces to anyone who would like some if you send me an SAE (A3).
>
> Be warned though, that it is not EXACTLY identical in hue to the original.
>
> Mike
> M0MLM
>
>
> --- In DrakeRadio@yahoogroups.com, "Victor" <g4jss@> wrote:
> >
> > Just had a culture shock. Tried ordering some of that blue filter #172. Actual cost just over $6 - shipping to UK minimum $68. Cancelled the order.
> > Vic - G4JSS
> >
>

4181. Re: [DrakeRadio] Re: Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:34:32 UTC
From: Joe
Topic: 4164 Message: 4181

VERY close!

Joe - WA6RKN
----- Original Message -----
From: "joeylefty74" <joe@...>
Subject: [DrakeRadio] Re: Blue filter

> Is the color close to original?

4182. Re: [DrakeRadio] Re: Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:37:06 UTC
From: Garey Barrell
Topic: 4164 Message: 4182

The Lee #172 is an 'identical' COLOR match to NOS blue filters from
Drake, back when they still had them! This film is slightly thinner
than the original, but the white diffuser provides more than enough support.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

joeylefty74 wrote:
> Is the color close to original?
>
> Joey
> ka4wjb
>
> --- In DrakeRadio@yahoogroups.com, "mike"<mikemillen@...> wrote:
>
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>> Be warned though, that it is not EXACTLY identical in hue to the original.
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just over $6 - shipping to UK minimum $68. Cancelled the order.
>>> Vic - G4JSS
>

4183. Re: Blue filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:34:16 UTC
From: mike
Topic: 4164 Message: 4183

It's pretty close, but very slightly greener. It's also not as dark, but 2 layers fixes that.

2 layers is easy, as it's half as thick as the original.

Incidentally, my offer of free pieces is for the UK only, I'm afraid.

73,
Mike
M0MLM

--- In DrakeRadio@yahoogroups.com, "joeylefty74" <joe@...> wrote:
>
> Is the color close to original?
>
> Joey
> ka4wjb
>
> --- In DrakeRadio@yahoogroups.com, "mike" <mikemillen@> wrote:
> >
> >
> >
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> > >
> > >
> >
>

4184. Something for the 2B rivet counters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 19:40:48 UTC
From: phbjr@aol.com
Topic: 4184 Message: 4184

Here's an interesting find - well, to me, anyway: #2052 does not have a little red button on the main dial so that it can be slid back & forth for calibration. In fact, the manual says:

"The dial scale is marked in 10 KC divisions and is adjustable for calibration purposes by sliding left or right with a slight pressure on the front of the glass."

IIRC, other versions I've owned that were no doubt manufactured later had a red button mounted on the front of the glass. Here's a photo from Wikipedia that shows it:

http://upload.wikimedia.org/wikipedia/commons/b/b5/Drake2b.png
(http://upload.wikimedia.org/wikipedia/commons/b/b5/Drake2b.png)

So, I wonder when it was added? I don't remember if my original 1963-purchased version had the button or not.

I love counting rivets..... ;-)

73/Arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

4185. Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 21:22:03 UTC
From: billykatzz
Topic: 4185 Message: 4185

I'm interested in hearing advice about what would be the optimum method of connecting my 300 ohm twinlead-fed 40 meter dipole to my Drake MN-4 transmatch, as the MN-4 doesn't have provisions for a balanced line feed.

Currently I have the twinlead attached to a homebrew airwound 4:1 balun, and then a short run of 213 coax into the shack to the MN-4. Loads up OK on most bands, but gets a little sketchy on 20 meters: the MN-4 drifts off-match the longer I transmit, requiring retuning.

Bill, NK6Q

4186. RE: [DrakeRadio] Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 21:37:04 UTC
From: Dave Tipton, W5DMT
Topic: 4185 Message: 4186

I use a 4:1 balun and feed it with a very short section of coax.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of billykatzz
Sent: Wednesday, August 18, 2010 4:22 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Twinlead to Drake MN-4

I'm interested in hearing advice about what would be the optimum method of connecting my 300 ohm twinlead-fed 40 meter dipole to my Drake MN-4 transmatch, as the MN-4 doesn't have provisions for a balanced line feed.

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Bill, NK6Q

[Non-text portions of this message have been removed]

4187. RE: [DrakeRadio] Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-18 22:08:35 UTC
From: Jim Chaggaris
Topic: 4169 Message: 4187

Garey,

Could be, but I see that he's still offering them up for sale. I've been stockpiling spare parts for my B-Line over the past year or so. <grin>

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

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The information contained in this message is intended only for the personal and confidential use of the recipient(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify PowerOne Corporation immediately, and delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Wednesday, August 18, 2010 2:04 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake R-4B marker dead

Jim -

Maybe you got the last ones!! Or maybe he's on vacation. Or he doesn't want to ship to Hong Kong?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Chaggaris wrote:
> Gary,
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> 73,
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> Jim N9WW
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> James Chaggaris
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> President
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> Website: www.pwrone.com
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>
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>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
On
> Behalf Of Garey Barrell
> Sent: Wednesday, August 18, 2010 8:59 AM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>

> Subject: Re: [DrakeRadio] Drake R-4B marker dead
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My
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>> I found a web site selling this IC, I sent an e-mail to him but no reply.
>>
> The web sit is there :
>
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> tm
>
>> I hope there have someone can help me buy this one.
>> Thanks,
>> mkchan
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4188. Re: Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 03:45:04 UTC
From: billykatzz
Topic: 4185 Message: 4188

Dave:

How short is short? I have about 12 feet going from the balun, running under my house and up into the shack. I hear it's bad to have the twinlead running on the ground.

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, "Dave Tipton, W5DMT" <dave@...> wrote:
>
> I use a 4:1 balun and feed it with a very short section of coax.
>
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> Behalf Of billykatzz
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> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Twinlead to Drake MN-4
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> Currently I have the twinlead attached to a homebrew airwound 4:1 balun, and
> then a short run of 213 coax into the shack to the MN-4. Loads up OK on most
> bands, but gets a little sketchy on 20 meters: the MN-4 drifts off-match the
> longer I transmit, requiring retuning.
>
> Bill, NK6Q
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

4189. TR 7 quit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 05:46:11 UTC
From: Craig Roberts
Topic: 4189 Message: 4189

Hmmm. My TR-7 quit transmitting tonight (just after a nice QSO with Italy). Relay pulls and all that, but there's almost no RF out. I can hear a very faint signal in an outboard receiver, but teh transmit output has got to be in the milliwatt range.

I let the rig cool for awhile and it transmitted for about 2 seconds when powered up and keyed, then -- dead again.

Receive is fine.

4190. TR 7 quit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 05:48:41 UTC
From: Craig Roberts
Topic: 4189 Message: 4190

Oh -- the guy with the faulty TR 7 is me --

Craig
W3CRR

(Well, I was about to send the radio to Jeff anyway for PIN diode replacement).

4191. RE: [DrakeRadio] Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 13:03:12 UTC
From: Bob Spooner
Topic: 4185 Message: 4191

Bill,

Two observations:
1. It sounds like something (possibly the balun) is heating up and changing its characteristics or RF feedback is getting into something (although I would expect immediate changes with RF feedback.)
2. If you are using your antenna for multiple bands, the impedance looking into the 300 ohm transmission line will vary widely, and I think you'll find that a 1:1 choke balun will work better than a 4:1.

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of billykatzz
Sent: Wednesday, August 18, 2010 5:22 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Twinlead to Drake MN-4

I'm interested in hearing advice about what would be the optimum method of connecting my 300 ohm twinlead-fed 40 meter dipole to my Drake MN-4 transmatch, as the MN-4 doesn't have provisions for a balanced line feed.

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Bill, NK6Q

[Non-text portions of this message have been removed]

4192. Re: Drake R-4B marker dead

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 13:19:46 UTC
From: ming kwong
Topic: 4169 Message: 4192

Thanks to everybody, yes, I should check the voltage going to the marker, first. Maybe the problem is not caused by the ICs.
I also got a reply from the shop, the ICs cost US$10 + 7.5 shipping. I bought a set for spare.
Thanks for your help and suggestion.
73
mkchan

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Jim -
>
> Maybe you got the last ones!! Or maybe he's on vacation. Or he doesn't
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> Glen Allen, VA
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> > > I bought a couple of the 923's to have as backup about a month ago so I
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> > > 73,
> > >
> > > Jim N9WW
> > >
> > >
> > >
> > > James Chaggaris
> > >
> > > President
> > >
> > > PowerOne Corp./PowerOne Environmental
> > >
> > > 1020 Cedar Ave. Suite 203

> >
> > St. Charles, IL 60174
> >
> > Phn: 630-443-6500
> >
> > Cell: 630-669-2241
> >
> > Fax: 630-443-6505
> >
> > Website: www.pwrone.com
> >
> >
> >
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> >
> >
> > From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of Garey Barrell
> > Sent: Wednesday, August 18, 2010 8:59 AM
> > To: DrakeRadio@yahoogroups.com
> > Subject: Re: [DrakeRadio] Drake R-4B marker dead
> >
> >
> >
> >
> >
> > That is the only source I know of for the 923 ICs. He may be 'out'.
> >
> > Have you checked the power supply for these ICs? It has two problematic
> > electrolytic capacitors and supplies power ONLY to the Calibrator
> > divider chain. Rectified and filtered from the filament supply.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> > ming kwong wrote:
> >
> >> Hello,
> >> Is there anybody know where can buy the filp-flop IC 923 (IC1 and IC2). My
> >>
> > R-4B marker doesn't work, it seem to be the ICs is malfunction.
> >
> >> I found a web site selling this IC, I sent an e-mail to him but no reply.
> >>
> > The web sit is there :
> > http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.h

> > tm
> >
> >> I hope there have someone can help me buy this one.
> >> Thanks,
> >> mkchan
> >>
> >>
> >>
> >>
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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4193. WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 13:46:55 UTC
From: phbjr@aol.com
Topic: 4193 Message: 4193

Looking for a 2AC calibrator is anyone has or runs across one for sale.

Paul, K4MSG

[Non-text portions of this message have been removed]

4194. RE: [DrakeRadio] Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 13:20:10 UTC
From: Jim Chaggaris
Topic: 4185 Message: 4194

Bob Spooner <rls19@psu.edu> wrote:

>Bill,
>
>Two observations:
>1. It sounds like something (possibly the balun) is heating up and
>changing its characteristics or RF feedback is getting into something
>(although I would expect immediate changes with RF feedback.)
>2. If you are using your antenna for multiple bands, the impedance
>looking into the 300 ohm transmission line will vary widely, and I think
>you'll find that a 1:1 choke balun will work better than a 4:1.
>
>73,
>Bob AD3K
>
>From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
>Behalf Of billykatzz
>Sent: Wednesday, August 18, 2010 5:22 PM
>To: DrakeRadio@yahoogroups.com
>Subject: [DrakeRadio] Twinlead to Drake MN-4
>
>
>I'm interested in hearing advice about what would be the optimum method
>of connecting my 300 ohm twinlead-fed 40 meter dipole to my Drake MN-4
>transmatch, as the MN-4 doesn't have provisions for a balanced line
>feed.
>
>Currently I have the twinlead attached to a homebrew airwound 4:1 balun,
>and then a short run of 213 coax into the shack to the MN-4. Loads up OK
>on most bands, but gets a little sketchy on 20 meters: the MN-4 drifts
>off-match the longer I transmit, requiring retuning.
>
>Bill, NK6Q
>
>
>
>[Non-text portions of this message have been removed]
>

4195. Re: [DrakeRadio] WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 14:10:05 UTC
From: Garey Barrell
Topic: 4193 Message: 4195

Paul -

They show up on EBay all the time. Unfortunately, they sell for more
than you probably paid for the 2-B!!

i believe I'd just get one of the SS versions, stick it in a box with
room for a 6.3VAC to DC supply and plug it in.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

phbjr@... wrote:
> Looking for a 2AC calibrator is anyone has or runs across one for sale.
>
> Paul, K4MSG
>
>
>

4196. Re: [DrakeRadio] WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 14:17:33 UTC
From: phbjr@aol.com
Topic: 4193 Message: 4196

I did see a couple on ebay recently, around $135 seems to be the going price.

Actually, I was thinking of "re-creating" a vacuum-tube 2AC by using the schematic in the manual and building it on double-sided plain copper PC board (I have a large sheet of the thin stuff) formed into a "copper box".

What I need is the 4-pin connector. Anyone know of a source? It doesn't have to be a chassis-mount, just the plain-jane 4-pin plug and I can come up with a mounting method.

In a message dated 8/19/2010 10:11:11 A.M. Eastern Daylight Time, k4oah@... writes:

Paul -

They show up on EBay all the time. Unfortunately, they sell for more than you probably paid for the 2-B!!

i believe I'd just get one of the SS versions, stick it in a box with room for a 6.3VAC to DC supply and plug it in.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

4197. Re: [DrakeRadio] WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 14:31:16 UTC
From: Lou W0TQ
Topic: 4193 Message: 4197

I have a spare 2AC, $65 shipped

and ah for the days when you could get a 2B at that price. Gal of milk
went for a dime.

Lou W0TQ

On 8/19/2010 9:17 AM, phbjr@... wrote:
>
> I did see a couple on ebay recently, around $135 seems to be the going
> price.
>
> Actually, I was thinking of "re-creating" a vacuum-tube 2AC by using
> the schematic in the manual and building it on double-sided plain
> copper PC
> board (I have a large sheet of the thin stuff) formed into a "copper
> box".
>
>
> What I need is the 4-pin connector. Anyone know of a source? It doesn't
> have to be a chassis-mount, just the plain-jane 4-pin plug and I can come
> up with a mounting method.
>
> In a message dated 8/19/2010 10:11:11 A.M. Eastern Daylight Time,
> k4oah@... <mailto:k4oah%40mindspring.com> writes:
>
> Paul -
>
> They show up on EBay all the time. Unfortunately, they sell for more
> than you probably paid for the 2-B!!
>
> i believe I'd just get one of the SS versions, stick it in a box with
> room for a 6.3VAC to DC supply and plug it in.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

4198. RE: [DrakeRadio] WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 14:37:00 UTC
From: Bob Spooner
Topic: 4193 Message: 4198

Paul,

The problem with using tubes with printed circuits is heat. The heating and cooling gradually converts the connections to cold solder joints and then the circuit stops working. Point-to-point wiring is your friend. I had a GE tube type AM-FM radio made with a printed circuit, and when the crashing noises became too annoying I would have to open it up and resolder all the connections to the tube sockets.

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of phbjr@aol.com
Sent: Thursday, August 19, 2010 10:18 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] WANTED: 2AC

I did see a couple on ebay recently, around $135 seems to be the going price.

Actually, I was thinking of "re-creating" a vacuum-tube 2AC by using the schematic in the manual and building it on double-sided plain copper PC
board (I have a large sheet of the thin stuff) formed into a "copper box".

What I need is the 4-pin connector. Anyone know of a source? It doesn't have to be a chassis-mount, just the plain-jane 4-pin plug and I can come
up with a mounting method.

In a message dated 8/19/2010 10:11:11 A.M. Eastern Daylight Time, k4oah@mindspring.com <mailto:k4oah%40mindspring.com> writes:

Paul -

They show up on EBay all the time. Unfortunately, they sell for more than you probably paid for the 2-B!!

i believe I'd just get one of the SS versions, stick it in a box with room for a 6.3VAC to DC supply and plug it in.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4199. Re: [DrakeRadio] WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-19 14:39:18 UTC
From: phbjr@aol.com
Topic: 4193 Message: 4199

The intent would be to use the PCB simply to create a copper box.
Everything would be hand-wired as if it was mounted in a copper chassis.

In a message dated 8/19/2010 10:37:10 A.M. Eastern Daylight Time,
rls19@... writes:

Paul,

The problem with using tubes with printed circuits is heat. The heating
and cooling gradually converts the connections to cold solder joints and
then the circuit stops working. Point-to-point wiring is your friend. I
had a GE tube type AM-FM radio made with a printed circuit, and when the
crashing noises became too annoying I would have to open it up and
resolder all the connections to the tube sockets.

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of phbjr@...
Sent: Thursday, August 19, 2010 10:18 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] WANTED: 2AC

I did see a couple on ebay recently, around $135 seems to be the going
price.

Actually, I was thinking of "re-creating" a vacuum-tube 2AC by using
the schematic in the manual and building it on double-sided plain copper
PC
board (I have a large sheet of the thin stuff) formed into a "copper
box".

What I need is the 4-pin connector. Anyone know of a source? It doesn't
have to be a chassis-mount, just the plain-jane 4-pin plug and I can
come
up with a mounting method.

In a message dated 8/19/2010 10:11:11 A.M. Eastern Daylight Time,
k4oah@... <mailto:k4oah%40mindspring.com> writes:

Paul -

They show up on EBay all the time. Unfortunately, they sell for more
than you probably paid for the 2-B!!

i believe I'd just get one of the SS versions, stick it in a box with
room for a 6.3VAC to DC supply and plug it in.

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

4200. SPR-4 modification for using a frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-20 21:53:32 UTC
From: Hans-Joachim Empel
Topic: 4200 Message: 4200

Good afternoon from Germany .

i am working on one of my SPR-4s.

this one i will modify to read out the receiving frequency.

i know i need a TA-4 board to do this , but i think its an easier way to build a board like the TA-4 board only to mix the VFO - frequency with an easy home bruwed oscillator and read out the RX - Frequency.

Has anybody an easy to build board drawing and can he tell me the connection points on T6 and the Pre Mixer ???

Thanks for any information

Kind regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4201. Re: [DrakeRadio] SPR-4 modification for using a frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-20 23:03:21 UTC
From: Don Cunningham
Topic: 4200 Message: 4201

Joachim,
I feel I need to let you know that your posts are making it through, even though I cannot help you with your request. I have seen your requests on the Drake lists several times. The SPR-4 is one Drake rig I have not even seen, much less owned, so I have no knowledge of it, hi. I hope you get the answers you need.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4202. Re: SPR-4 modification for using a frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-20 23:28:17 UTC
From: aa5wg
Topic: 4200 Message: 4202

Hi Joachim - DL2388RB:
I am not sure if this will help but here is a link with a frequency counter for different radios: http://www.aade.com/dfd.htm

Hope this works for you.
73,
Chuck - AA5WG

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Good afternoon from Germany .
>
> i am working on one of my SPR-4s.
>
> this one i will modify to read out the receiving frequency.
>
> i know i need a TA-4 board to do this , but i think its an easier way to build a board like the TA-4 board only to mix the VFO - frequency with an easy home bruwed oscillator and read out the RX - Frequency.
>
> Has anybody an easy to build board drawing and can he tell me the connection points on T6 and the Pre Mixer ???
>
> Thanks for any information
>
> Kind regards from Germany
>
> Joachim
>
> DL2388RB
>
> [Non-text portions of this message have been removed]
>

4203. T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 00:47:43 UTC
From: jeu3pneu
Topic: 4203 Message: 4203

Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I think it's not enough. There is no indication about this information in the Manual of the radio. Thanks!
Martin VE2EDK

4204. Offer 22 XTALs for Drake SPR -4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-20 22:03:06 UTC
From: Hans-Joachim Empel
Topic: 4204 Message: 4204

Hello to the Group ,

i modified one of my SPR-4s and i have to offer following XTALs for the SPR-4 (22 XTALs some of them brandnew)

If somebody is interested in the XTALs , please send me a offer , i dont want to sell them via EPAY i prefere a fair price.

Payment via PAYPAL is not a problem.

Shippingcosts are not that high.

11.59 MHz = 0.5 - 1.0 MHz Empfangsbereich auf dem SPR - 4 -1- (Empfangsbereich means RX frequency range)

12.09 MHz = 1.0 - 1.5 MHz Empfangsbereich auf dem SPR - 4 -2-

14.59 MHz = 3.5 - 4.0 MHz Empfangsbereich auf dem SPR - 4 -3-

17,09 MHz = 6.0 - 6.5 MHz Empfangsbereich auf dem SPR - 4 -4-

18.09 MHz = 7.0 - 7.5 MHz Empfangsbereich auf dem SPR - 4 -5-

20,59 MHz = 9.5 - 10.0 MHz Empfangsbereich auf dem SPR - 4 -6-

22.59 MHz = 11,5 - 12.0 MHz Empfangsbereich auf dem SPR - 4 -7-

25.09 MHz = 14.0 - 14.5 MHz Empfangsbereich auf dem SPR - 4 -8-

25.59 MHz = 14.5 - 15.0 MHz Empfangsbereich auf dem SPR - 4 -9-

26.09 MHz = 15.0 - 15.5 MHz Empfangsbereich auf dem SPR - 4 -10-

28.09 MHz = 17.0 - 17.5 MHz Empfangsbereich auf dem SPR - 4 -11-

28.59 MHz = 17.5 - 18.0 MHz Empfangsbereich auf dem SPR - 4 -12-

31,09 MHz = 20.0 - 20.5 MHz Empfangsbereich auf dem SPR - 4 -13-

31.59 MHz = 20.5 - 21.0 MHz Empfangsbereich auf dem SPR - 4 -14-

32.09 MHz = 21.0 - 21.5 MHz Empfangsbereich auf dem SPR - 4 -15-

32.59 MHz = 21.5 - 22.0 MHz Empfangsbereich auf dem SPR - 4 -16-

38.09 MHz = 27.0 - 27.5 MHz Empfangsbereich auf dem SPR - 4 -17-

38.59 MHz = 27.5 - 28.0 MHz Empfangsbereich auf dem SPR - 4 -18- BRANDNEW

39.09 MHz = 28.0 - 28.5 MHz Empfangsbereich auf dem SPR - 4 -19- BRANDNEW

39.59 MHz = 28.5 - 29.0 MHz Empfangsbereich auf dem SPR - 4 -20- BRANDNEW

40.09 MHz = 29.0 - 29.5 MHz Empfangsbereich auf dem SPR - 4 -21- BRANDNEW

40.59 MHz = 29.5 - 30.0 MHz Empfangsbereich auf dem SPR - 4 -22- BRANDNEW

Kind Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4205. RE: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 01:19:04 UTC
From: Joel Levy
Topic: 4204 Message: 4205

Hello, I would be interested in the 9.5-10mhz and 11.5-12.0 mhz. 73, Joel AE2JL

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Hans-Joachim Empel
Sent: Friday, August 20, 2010 6:03 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

Hello to the Group ,

i modified one of my SPR-4s and i have to offer following XTALs for the SPR-4 (22 XTALs some of them brandnew)

If somebody is interested in the XTALs , please send me a offer , i dont want to sell them via EPAY i prefere a fair price.

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12.09 MHz = 1.0 - 1.5 MHz Empfangsbereich auf dem SPR - 4 -2-

14.59 MHz = 3.5 - 4.0 MHz Empfangsbereich auf dem SPR - 4 -3-

17,09 MHz = 6.0 - 6.5 MHz Empfangsbereich auf dem SPR - 4 -4-

18.09 MHz = 7.0 - 7.5 MHz Empfangsbereich auf dem SPR - 4 -5-

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22.59 MHz = 11,5 - 12.0 MHz Empfangsbereich auf dem SPR - 4 -7-

25.09 MHz = 14.0 - 14.5 MHz Empfangsbereich auf dem SPR - 4 -8-

25.59 MHz = 14.5 - 15.0 MHz Empfangsbereich auf dem SPR - 4 -9-

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28.09 MHz = 17.0 - 17.5 MHz Empfangsbereich auf dem SPR - 4 -11-

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38.09 MHz = 27.0 - 27.5 MHz Empfangsbereich auf dem SPR - 4 -17-

38.59 MHz = 27.5 - 28.0 MHz Empfangsbereich auf dem SPR - 4 -18- BRANDNEW

39.09 MHz = 28.0 - 28.5 MHz Empfangsbereich auf dem SPR - 4 -19- BRANDNEW

39.59 MHz = 28.5 - 29.0 MHz Empfangsbereich auf dem SPR - 4 -20- BRANDNEW

40.09 MHz = 29.0 - 29.5 MHz Empfangsbereich auf dem SPR - 4 -21- BRANDNEW

40.59 MHz = 29.5 - 30.0 MHz Empfangsbereich auf dem SPR - 4 -22- BRANDNEW

Kind Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4206. RE: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 01:20:40 UTC
From: Joel Levy
Topic: 4204 Message: 4206

SRI-how about $10 for each of the two, plus postage from Germany to the USA.
73, Joel

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Hans-Joachim Empel
Sent: Friday, August 20, 2010 6:03 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

Hello to the Group ,

i modified one of my SPR-4s and i have to offer following XTALs for the SPR-4 (22 XTALs some of them brandnew)

If somebody is interested in the XTALs , please send me a offer , i dont want to sell them via EPAY i prefere a fair price.

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17,09 MHz = 6.0 - 6.5 MHz Empfangsbereich auf dem SPR - 4 -4-

18.09 MHz = 7.0 - 7.5 MHz Empfangsbereich auf dem SPR - 4 -5-

20,59 MHz = 9.5 - 10.0 MHz Empfangsbereich auf dem SPR - 4 -6-

22.59 MHz = 11,5 - 12.0 MHz Empfangsbereich auf dem SPR - 4 -7-

25.09 MHz = 14.0 - 14.5 MHz Empfangsbereich auf dem SPR - 4 -8-

25.59 MHz = 14.5 - 15.0 MHz Empfangsbereich auf dem SPR - 4 -9-

26.09 MHz = 15.0 - 15.5 MHz Empfangsbereich auf dem SPR - 4 -10-

28.09 MHz = 17.0 - 17.5 MHz Empfangsbereich auf dem SPR - 4 -11-

28.59 MHz = 17.5 - 18.0 MHz Empfangsbereich auf dem SPR - 4 -12-

31,09 MHz = 20.0 - 20.5 MHz Empfangsbereich auf dem SPR - 4 -13-

31.59 MHz = 20.5 - 21.0 MHz Empfangsbereich auf dem SPR - 4 -14-

32.09 MHz = 21.0 - 21.5 MHz Empfangsbereich auf dem SPR - 4 -15-

32.59 MHz = 21.5 - 22.0 MHz Empfangsbereich auf dem SPR - 4 -16-

38.09 MHz = 27.0 - 27.5 MHz Empfangsbereich auf dem SPR - 4 -17-

38.59 MHz = 27.5 - 28.0 MHz Empfangsbereich auf dem SPR - 4 -18- BRANDNEW

39.09 MHz = 28.0 - 28.5 MHz Empfangsbereich auf dem SPR - 4 -19- BRANDNEW

39.59 MHz = 28.5 - 29.0 MHz Empfangsbereich auf dem SPR - 4 -20- BRANDNEW

40.09 MHz = 29.0 - 29.5 MHz Empfangsbereich auf dem SPR - 4 -21- BRANDNEW

40.59 MHz = 29.5 - 30.0 MHz Empfangsbereich auf dem SPR - 4 -22- BRANDNEW

Kind Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4207. Re: [DrakeRadio] SPR-4 modification for using a frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 02:08:23 UTC
From: Garey Barrell
Topic: 4200 Message: 4207

Joachim -

Here is the information on the TA-4. This should tell you what you need
to know.

Let us know how it all works out!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> Good afternoon from Germany .
>
> i am working on one of my SPR-4s.
>
> this one i will modify to read out the receiving frequency.
>
> i know i need a TA-4 board to do this , but i think its an easier way to build a board like the TA-4 board only to mix the VFO - frequency with an easy home bruwed oscillator and read out the RX - Frequency.
>
> Has anybody an easy to build board drawing and can he tell me the connection points on T6 and the Pre Mixer ???
>
> Thanks for any information
>
> Kind regards from Germany
>
> Joachim
>
> DL2388RB
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

4208. Re: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 02:24:54 UTC
From: Garey Barrell
Topic: 4203 Message: 4208

Martin -

This is a current point, there are two Ge diode junctions forward biased
to ground, so if you see more than about 0.6 VDC, one of the diodes is
blown!

It is necessary to advance the GAIN control further clockwise for CW
than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4
o'clock for full output.

How much output are you getting on CW, on which bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I think it's not enough. There is no indication about this information in the Manual of the radio. Thanks!
> Martin VE2EDK
>
>
>

4209. Drake R4C PTO characterization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 02:44:52 UTC
From: arsnf7z
Topic: 4209 Message: 4209

per my previous posting about frequency drift at the R4C PTO, I just wanted to report my findings after bringing the culprit into the lab for a more critical analysis.

other than a slightly low zener voltage, ~9.7v, I found the PTO stable and within spec when supplying the +11 volts from the lab power supply. the R4C was off other than external power to the PTO. the problems surfaced only when the R4C was powered on, and heat from the power supply dropping resistors and the audio ouput transistor was introduced. a poor design, to have these heat generators in the near vicinity of the PTO.

the only real solution is to isolate/eliminate the offending components. I'll experiment with shielding to better profile the improvements. this has been addressed before, with a new power supply design and an IC audio stage. not a bad idea, since these are weak areas in the R4C design. better yet, pick-off the audio after the product detector (pre-amp) and route to an external tube stage amplifier, and perhaps, through one of those huge Hammarlund/Hallicrafters speaker cabinets <grin>.

someone mentioned that in finding a replacement speaker for the MS-4, the modern-day 4 ohm speakers were too inefficient for the output stage, and I found this to be true. I'm now looking for the ultimate 'cheap' replacement speaker. the increased low-frequency response while nice for music, isn't optimum for communications signals. CW tends to sound muddy and SSB lacks that mid-range punch that helps on weak signals.

NF7Z, daniel

4210. Re: WANTED: 2AC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 03:13:46 UTC
From: w1fued@sbcglobal.net
Topic: 4193 Message: 4210

Hi All,
I just built up two crystal calibrators from Mike Bryce at the HEATHKIT SHOP for use in a 2-c and 2-b. If you the "tube version" this kit includes a relay which switches the dc power on to the calibrator.The relay is powered from the pin supplying plate voltage to the original 2ac. When the calibrator is switched on from the front panel, the relay is activated switching the dc to the calibrator. The calibrator is supplied with ac from the same four pin socket(from orignal fil. pin.) Very clever set up, and you get 25khz and 100 khz steady or pulsed marker. Unless you are a puriest, this is the way to go. I broke and old tube, broke the pins from the base, soldered the wires to pins, then covered with heat shrink tubing. It makes a very nice, and neat installation. .

--- In DrakeRadio@yahoogroups.com, phbjr@... wrote:
>
> Looking for a 2AC calibrator is anyone has or runs across one for sale.
>
> Paul, K4MSG
>
>
> [Non-text portions of this message have been removed]
>

4211. Re: SPR-4 modification for using a frequency counter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 03:30:05 UTC
From: w1fued@sbcglobal.net
Topic: 4200 Message: 4211

Joachim,

The spr-4 manual near the back, shows the connection points for the spr4. It looks a t bit confusing at first, but when you look you will see there are pins on the premixer board for direct connection. I built up 2 ta4 replicas, which work fine.....but that leads me to this....

If you are using a DDS VFO why would you want a frq. read out.
I know nothing of your kit, but I bet you have a programmmable offset.
just set this offset to mixer plus vfo (dont have book in front of me) somethin like 10. 5 mhz. then turn the dial to zero and tune all the time with synthisiser. Then you would be reading the freq. received by the radio on the DDS dial all the time.

I am going to purcahse one of dds units from Germany to build up and play with ....I have a n3zi one now, but it only goes to 30 MHZ...or 22 mhz or so on the drake radios. Yours will go through up to 30 mhz on the radio, I can envision my drake 4 line with dds vfo used like an fs4, only tunable!

Ed

--- In DrakeRadio@yahoogroups.com, "Hans-Joachim Empel" <hajoempel@...> wrote:
>
> Good afternoon from Germany .
>
> i am working on one of my SPR-4s.
>
> this one i will modify to read out the receiving frequency.
>
> i know i need a TA-4 board to do this , but i think its an easier way to build a board like the TA-4 board only to mix the VFO - frequency with an easy home bruwed oscillator and read out the RX - Frequency.
>
> Has anybody an easy to build board drawing and can he tell me the connection points on T6 and the Pre Mixer ???
>
> Thanks for any information
>
> Kind regards from Germany
>
> Joachim
>
> DL2388RB
>
> [Non-text portions of this message have been removed]
>

4212. RE: [DrakeRadio] Drake R4C PTO characterization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 13:05:16 UTC
From: Terrell Hamilton
Topic: 4209 Message: 4212

It seems to my aging grey cells, that somewhere, I have read about someone who rebuilt their speakers to different specs.

I suppose replacing the cone wouldn't be too difficult mechanically, but the rest. what do you think?

Terry

K7WLD

Wenatchee, WA

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of arsnf7z
Sent: Friday, August 20, 2010 7:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake R4C PTO characterization

per my previous posting about frequency drift at the R4C PTO, I just wanted to report my findings after bringing the culprit into the lab for a more critical analysis.

other than a slightly low zener voltage, ~9.7v, I found the PTO stable and within spec when supplying the +11 volts from the lab power supply. the R4C was off other than external power to the PTO. the problems surfaced only when the R4C was powered on, and heat from the power supply dropping resistors and the audio ouput transistor was introduced. a poor design, to

have these heat generators in
the near vicinity of the PTO.

the only real solution is to
isolate/eliminate the
offending components. I'll
experiment with shielding to
better profile the
improvements. this has been
addressed before, with a new
power supply design and an IC
audio stage. not a bad idea,
since these are weak areas in
the R4C design. better yet,
pick-off the audio after the
product detector (pre-amp) and
route to an external tube
stage amplifier, and perhaps,
through one of those huge
Hammarlund/Hallicrafters
speaker cabinets <grin>.

someone mentioned that in
finding a replacement speaker
for the MS-4, the modern-day 4
ohm speakers were too
inefficient for the output
stage, and I found this to be
true. I'm now looking for the
ultimate 'cheap' replacement
speaker. the increased
low-frequency response while
nice for music, isn't optimum
for communications signals. CW
tends to sound muddy and SSB
lacks that mid-range punch
that helps on weak signals.

NF7Z, daniel

[Non-text portions of this message have been removed]

4213. RE: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 16:08:45 UTC
From: Martin
Topic: 4203 Message: 4213

Tnx Gary for your fast answer.

My T4XC is at friend home (VE2VX)

We will check for your question and be back.

Martin

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 20 août 2010 22:25
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC balanced modulator voltage

Martin -

This is a current point, there are two Ge diode junctions forward biased to ground, so if you see more than about 0.6 VDC, one of the diodes is blown!

It is necessary to advance the GAIN control further clockwise for CW than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4 o'clock for full output.

How much output are you getting on CW, on which bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I think it's not enough. There is no indication about this information in the Manual of the radio. Thanks!
> Martin VE2EDK
>
>
>

[Non-text portions of this message have been removed]

4214. Re: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-21 17:42:34 UTC
From: Hans-Joachim Empel
Topic: 4204 Message: 4214

Sorry but a HAM from Spain bought all the 22 XTALs together.
Regards
Joachim
----- Original Message -----
From: "Joel Levy" <jlevy01@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, August 21, 2010 3:20 AM
Subject: RE: [DrakeRadio] Offer 22 XTALs for Drake SPR -4

> SRI-how about $10 for each of the two, plus postage from Germany to the
> USA.
> 73, Joel
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Hans-Joachim Empel
> Sent: Friday, August 20, 2010 6:03 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Offer 22 XTALs for Drake SPR -4
>
>
>
>
>
> Hello to the Group ,
>
> i modified one of my SPR-4s and i have to offer following XTALs for the
> SPR-4 (22 XTALs some of them brandnew)
>
> If somebody is interested in the XTALs , please send me a offer , i dont
> want to sell them via EPAY i prefere a fair price.
>
> Payment via PAYPAL is not a problem.
>
> Shippingcosts are not that high.
>
> 11.59 MHz = 0.5 - 1.0 MHz Empfangsbereich auf dem SPR - 4 -1- (
> Empfangsbereich means RX frequency range)
>
> 12.09 MHz = 1.0 - 1.5 MHz Empfangsbereich auf dem SPR - 4 -2-
>
> 14.59 MHz = 3.5 - 4.0 MHz Empfangsbereich auf dem SPR - 4 -3-
>
> 17,09 MHz = 6.0 - 6.5 MHz Empfangsbereich auf dem SPR - 4 -4-

>
> 18.09 MHz = 7.0 - 7.5 MHz Empfangsbereich auf dem SPR - 4 -5-
>
> 20,59 MHz = 9.5 - 10.0 MHz Empfangsbereich auf dem SPR - 4 -6-
>
> 22.59 MHz = 11,5 - 12.0 MHz Empfangsbereich auf dem SPR - 4 -7-
>
> 25.09 MHz = 14.0 - 14.5 MHz Empfangsbereich auf dem SPR - 4 -8-
>
> 25.59 MHz = 14.5 - 15.0 MHz Empfangsbereich auf dem SPR - 4 -9-
>
> 26.09 MHz = 15.0 - 15.5 MHz Empfangsbereich auf dem SPR - 4 -10-
>
> 28.09 MHz = 17.0 - 17.5 MHz Empfangsbereich auf dem SPR - 4 -11-
>
> 28.59 MHz = 17.5 - 18.0 MHz Empfangsbereich auf dem SPR - 4 -12-
>
> 31,09 MHz = 20.0 - 20.5 MHz Empfangsbereich auf dem SPR - 4 -13-
>
> 31.59 MHz = 20.5 - 21.0 MHz Empfangsbereich auf dem SPR - 4 -14-
>
> 32.09 MHz = 21.0 - 21.5 MHz Empfangsbereich auf dem SPR - 4 -15-
>
> 32.59 MHz = 21.5 - 22.0 MHz Empfangsbereich auf dem SPR - 4 -16-
>
> 38.09 MHz = 27.0 - 27.5 MHz Empfangsbereich auf dem SPR - 4 -17-
>
> 38.59 MHz = 27.5 - 28.0 MHz Empfangsbereich auf dem SPR - 4 -18- BRANDNEW
>
> 39.09 MHz = 28.0 - 28.5 MHz Empfangsbereich auf dem SPR - 4 -19- BRANDNEW
>
> 39.59 MHz = 28.5 - 29.0 MHz Empfangsbereich auf dem SPR - 4 -20- BRANDNEW
>
> 40.09 MHz = 29.0 - 29.5 MHz Empfangsbereich auf dem SPR - 4 -21- BRANDNEW
>
> 40.59 MHz = 29.5 - 30.0 MHz Empfangsbereich auf dem SPR - 4 -22- BRANDNEW
>
> Kind Regards from Germany
>
> Joachim
>
> DL2388RB
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links
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4215. RE: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 03:33:25 UTC
From: Martin
Topic: 4203 Message: 4215

Hello Gary

I talk to my friend and he will unbuilt the modulator balanced.

Martin

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 20 août 2010 22:25
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC balanced modulator voltage

Martin -

This is a current point, there are two Ge diode junctions forward biased to ground, so if you see more than about 0.6 VDC, one of the diodes is blown!

It is necessary to advance the GAIN control further clockwise for CW than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4 o'clock for full output.

How much output are you getting on CW, on which bands.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

jeu3pneu wrote:
> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I think it's not enough. There is no indication about this information in the Manual of the radio. Thanks!
> Martin VE2EDK
>
>
>

[Non-text portions of this message have been removed]

4216. Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 14:04:53 UTC
From: W6IDS
Topic: 4164 Message: 4216

Hello To All,

I live in Richmond, IN which is right on the IN/OH border and
about 35 miles West of Dayton.

Does anyone have a good source in mind, convenient to my
location per se, that does work on our Drakes like my "Twins"??

Howard W6IDS
Richmond, IN EM79NV

4217. RE: [DrakeRadio] Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 14:26:03 UTC
From: Jim Chaggaris
Topic: 4164 Message: 4217

Jeff Covelli (WA8SAJ) is probably one of the best out there and his rates are reasonably.

73,,

Jimm N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of W6IDS
Sent: Sunday, August 22, 2010 9:05 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Where To Go For Drake Repair

Hello To All,

I live in Richmond, IN which is right on the IN/OH border and about 35 miles West of Dayton.

Does anyone have a good source in mind, convenient to my location per se, that does work on our Drakes like my "Twins"??

Howard W6IDS
Richmond, IN EM79NV

[Non-text portions of this message have been removed]

4218. Re: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 14:57:40 UTC
From: Garey Barrell
Topic: 4203 Message: 4218

Martin -

Before you open the BAL MOD, have him check the values of R104 and R106. It's quite possible that R104 has gone up in value, limiting the current.

It's also possible that there is a problem inside the BAL MOD can, but less likely.

How much output power can you get on the low bands with what setting of the GAIN control????

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello Gary
>
> I talk to my friend and he will unbuilt the modulator balanced.
>
> Martin
>
>
>
> De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
> part de Garey Barrell
> Envoy? : 20 ao?t 2010 22:25
> ? : DrakeRadio@yahoogroups.com
> Objet : Re: [DrakeRadio] T4XC balanced modulator voltage
>
>
>
>
>
> Martin -
>
> This is a current point, there are two Ge diode junctions forward biased
> to ground, so if you see more than about 0.6 VDC, one of the diodes is
> blown!
>
> It is necessary to advance the GAIN control further clockwise for CW
> than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4
> o'clock for full output.

>
> How much output are you getting on CW, on which bands.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
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>> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced
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> it's not enough. There is no indication about this information in the Manual
> of the radio. Thanks!
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>> Martin VE2EDK
>>
>>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4219. Drake C-Line with Digital

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 17:57:57 UTC
From: Chuck Pool
Topic: 4219 Message: 4219

Hi to all:
Can the N3ZI DDS2 digital readout system work witht he R-4C and T-4XC?
I would like individual readout for each of the above radios when going split frequency and have both radios sinked together when one PTO is in charge.

Is this possibel and has anyone done this:
73,
Chuck - AA5WG

[Non-text portions of this message have been removed]

4220. RE: [DrakeRadio] Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 20:09:19 UTC
From: Steve Finch
Topic: 4164 Message: 4220

I second that ☐ very reasonable, quick, and it works when returned.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Sunday, August 22, 2010 8:26 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Where To Go For Drake Repair

Jeff Covelli (WA8SAJ) is probably one of the best out there and his rates are reasonably.

73,,

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From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of W6IDS
Sent: Sunday, August 22, 2010 9:05 AM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Where To Go For Drake Repair

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about 35 miles West of Dayton.

Does anyone have a good source in mind, convenient to my
location per se, that does work on our Drakes like my "Twins"??

Howard W6IDS
Richmond, IN EM79NV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4221. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-22 21:15:16 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4221

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4222. RE: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 00:25:17 UTC
From: Martin
Topic: 4203 Message: 4222

QSL Gary

He is on vacation till Thursday!

Martin

Very tnx!

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de Garey Barrell
Envoyé : 22 août 2010 10:58
À : DrakeRadio@...m
Objet : Re: [DrakeRadio] T4XC balanced modulator voltage

Martin -

Before you open the BAL MOD, have him check the values of R104 and R106. It's quite possible that R104 has gone up in value, limiting the current.

It's also possible that there is a problem inside the BAL MOD can, but less likely.

How much output power can you get on the low bands with what setting of the GAIN control????

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Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
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> Hello Gary
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> Martin
>
>
>
> De : DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] De la
> part de Garey Barrell
> Envoyé : 20 août 2010 22:25
> À : DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Objet : Re: [DrakeRadio] T4XC balanced modulator voltage

>
>
>
>
>
> Martin -
>
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> 73, Garey - K4OAH
> Glen Allen, VA
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> it's not enough. There is no indication about this information in the
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>> Martin VE2EDK
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4223. 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 04:25:51 UTC
From: w5rkl
Topic: 4223 Message: 4223

Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found it to be bad when I was aligning the T4XB.

73s
Mike
W5RKL

4224. RE: [DrakeRadio] Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 15:11:27 UTC
From: Brenton Crowhurst
Topic: 4164 Message: 4224

Thanks for this!

I've web-searched and book marked him for future reference.

_____
Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

_____
From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris [jimc@...]
Sent: August 22, 2010 8:26 AM
To: DrakeRadio@yahoogroups.com
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James Chaggaris

President

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From: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of W6IDS
Sent: Sunday, August 22, 2010 9:05 AM
To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Where To Go For Drake Repair

Hello To All,

I live in Richmond, IN which is right on the IN/OH border and
about 35 miles West of Dayton.

Does anyone have a good source in mind, convenient to my
location per se, that does work on our Drakes like my "Twins"??

Howard W6IDS
Richmond, IN EM79NV

[Non-text portions of this message have been removed]

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4225. Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 15:45:09 UTC
From: David Drake
Topic: 4164 Message: 4225

You may be closer to John Kriner. His work is excellent as well.
You would have to ship the rig to Jeff, but if thats ok, he's the guy.
There is a listing of repair people on www.wb4hfn.com as well as
the drake museum site.
73's
David
Wd9cmd

[Non-text portions of this message have been removed]

4226. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 19:48:48 UTC
From: w5rkl
Topic: 4223 Message: 4226

I found a couple of new 200 ohm pots at Surplus Sales of Nebraska that appear will work as replacement for the failed Carrier Balance pot in my T4XB transmitter. I ordered them today. Maybe they will arrive by Friday or Monday. Will just have to wait and see. Until then I'll just post pone the alignment segment that requires adjusting the Carrier Balance pot.

Garey, I noticed Drake put a 150 ohm 1/2 watt resistor in parallel with the Carrier Balance pot. This changes the resistance from 200 ohms to 85.71 ohms. Most Carrier Balance pots I have run across on other brand transmitters and transceiver, Heathkit to be specific, only have a 200 ohm pot without the parallel resistor across the pot.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found it to be bad when I was aligning the T4XB.
>
> 73s
> Mike
> W5RKL
>

4227. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 21:02:27 UTC
From: Garey Barrell
Topic: 4223 Message: 4227

Mike -

Yeah, and you'll note that THEY are all multi-turn pots, too! IF the Bal Mod is balanced 'mechanically', you don't need all that range. Seems you ran into that earlier? Or was that someone else who found that the physical location of the wiring IS critical.

I suspect they chose that resistor to allow for manufacturing variations, small enough to allow enough resolution, and only large enough to provide a sufficient range.

Heath had less control over the 'mechanics', so needed a wider range, and chose a multi-turn pot to get enough resolution.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Garey, I noticed Drake put a 150 ohm 1/2 watt resistor in parallel with the Carrier Balance pot. This changes the resistance from 200 ohms to 85.71 ohms. Most Carrier Balance pots I have run across on other brand transmitters and transceiver, Heathkit to be specific, only have a 200 ohm pot without the parallel resistor across the pot.
>
>
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> --- In DrakeRadio@yahoogroups.com, "w5rkl"<w5rkl@...> wrote:
>
>> Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found it to be bad when I was aligning the T4XB.
>>
>> 73s
>> Mike
>> W5RKL
>

4228. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 21:46:11 UTC
From: w5rkl
Topic: 4223 Message: 4228

Garey,

Most of the multi-turn pots I have come across have stops at each end. It typically took 10 turns or so to reach the end. The pot in the T4XB I have appears to not be a multi-turn pot or the pots broken internally. I can rotate it till the cows come home, well over 30 turns either direction, and it never comes to a stop plus it makes no difference in the Carrier Balance adjustment regardless of the rotation position. The Carrier Balance pot in my T4XC is a muti-turn pot and it works.

I don't recall any Heathkit Carrier Balance pots (Heath called it Carrier Null Control) being multi-turn. The SB-400, SB-401, HW-100, HW-101, and the SB-100 series transmitters and transceivers used a single turn 200 ohm pot in the Carrier Balance circuit. If that pot failed then I would replace it with a small PC mount sealed multi-turn pot. I thought about using the small PC mount multi-turn 200 ohm pot (I have 2 spares) but mounting is a problem, I could not come up with a firm mounting and adjustable point at the same place as the original pot was.

Anyway, we'll see what happens when the new pots arrive. They are not multi-turn pots so the adjustment will not be as precise as a multi-turn pot would be.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Yeah, and you'll note that THEY are all multi-turn pots, too! IF the
> Bal Mod is balanced 'mechanically', you don't need all that range.
> Seems you ran into that earlier? Or was that someone else who found
> that the physical location of the wiring IS critical.
>
> I suspect they chose that resistor to allow for manufacturing
> variations, small enough to allow enough resolution, and only large
> enough to provide a sufficient range.
>
> Heath had less control over the 'mechanics', so needed a wider range,
> and chose a multi-turn pot to get enough resolution.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

>
> w5rkl wrote:
> > Garey, I noticed Drake put a 150 ohm 1/2 watt resistor in parallel with the Carrier Balance pot. This changes the resistance from 200 ohms to 85.71 ohms. Most Carrier Balance pots I have run across on other brand transmitters and transceiver, Heathkit to be specific, only have a 200 ohm pot without the parallel resistor across the pot.
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "w5rkl"<w5rkl@> wrote:
> >
> >> Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found it to be bad when I was aligning the T4XB.
> >>
> >> 73s
> >> Mike
> >> W5RKL
> >
>

4229. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 21:51:06 UTC
From: Richard Knoppow
Topic: 4223 Message: 4229

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 23, 2010 2:02 PM
Subject: Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Mike -
>
> Yeah, and you'll note that THEY are all multi-turn pots,
> too! IF the
> Bal Mod is balanced 'mechanically', you don't need all
> that range.
> Seems you ran into that earlier? Or was that someone else
> who found
> that the physical location of the wiring IS critical.
>
> I suspect they chose that resistor to allow for
> manufacturing
> variations, small enough to allow enough resolution, and
> only large
> enough to provide a sufficient range.
>
> Heath had less control over the 'mechanics', so needed a
> wider range,
> and chose a multi-turn pot to get enough resolution.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>

I am the one who discovered the wiring position had a
strong effect on the modulator balance. My T4-XB was
evidently re-wired by someone, it looked OK until I saw the
photos in your CD, that showed that the two wires going to
secondary of the modulator transformer were reversed. The
symptom was that I could not get a carrier null and the
balance capacitor was out of range. After a couple of false
starts I discovered the wiring error and when it was
corrected was able to get a perfect null with both pot and
cap about mid position.
BTW, the pot in mine is original is is a 400 Ohm pot
rather than the 200 Ohm shown in the schematic.
I chased my tail for a long time on this problem and

damaged the original balance cap which had to be replaced
(overheated it with a soldering iron). This is one reason I
so strongly recommend Garey's CD's. They contain information
NOT included in any of the factory handbooks or anywhere
else including the very valuable photgraphs of the interior
and complete parts lists with location data.
FWIW, the specs for carrier suppression are very good
and the unit will actually do what the specs say. When
adjusted correctly the carrier is so far down it can not be
detected using a good receiver on the output plus the
circuit seems to be pretty stable.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4230. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 21:56:56 UTC
From: Richard Knoppow
Topic: 4223 Message: 4230

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 23, 2010 2:46 PM
Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Garey,
>
> Most of the multi-turn pots I have come across have stops
> at each end. It typically took 10 turns or so to reach the
> end. The pot in the T4XB I have appears to not be a
> multi-turn pot or the pots broken internally. I can rotate
> it till the cows come home, well over 30 turns either
> direction, and it never comes to a stop plus it makes no
> difference in the Carrier Balance adjustment regardless of
> the rotation position. The Carrier Balance pot in my T4XC
> is a muti-turn pot and it works.
>
> I don't recall any Heathkit Carrier Balance pots (Heath
> called it Carrier Null Control) being multi-turn. The
> SB-400, SB-401, HW-100, HW-101, and the SB-100 series
> transmitters and transceivers used a single turn 200 ohm
> pot in the Carrier Balance circuit. If that pot failed
> then I would replace it with a small PC mount sealed
> multi-turn pot. I thought about using the small PC mount
> multi-turn 200 ohm pot (I have 2 spares) but mounting is a
> problem, I could not come up with a firm mounting and
> adjustable point at the same place as the original pot
> was.
>
> Anyway, we'll see what happens when the new pots arrive.
> They are not multi-turn pots so the adjustment will not be
> as precise as a multi-turn pot would be.
>
> 73s
> Mike
> W5RKL

The reduction mechanism on the pot is a ball-bearing
slow motion drive. The stops are those built-into the pot.
If it doesn't stop its either because the internal stops are
broken, or more likely from your description, the pot is
siezed up and isn't actually turning. There is enough slip
in the slow motion mechanism so that it will turn even if
the pot is stuck. Of course, its also possible that the link

from the slow motion drive to the pot is broken. Since you
are gettin a new one it doesn't make sense to try fixing the
old one but it would be interesting to disect it to see what
actually happened to it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4231. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 22:08:23 UTC
From: Garey Barrell
Topic: 4223 Message: 4231

Mike -

That's what I get for trusting my memory..... :-) You'd think I'd learn..... If I listened to Richard, I'd look at my CD and SEE that it is a ball drive.

I don't think the Drake pots have a physical stop. It's a ball drive, and only applies so much torque to the wiper. Perhaps someone 'oiled' the ball drive? You might give it a shot of alcohol to see if that's the case.

Anyway, the parallel resistor just makes the NULL easier to get into with LOTS of resolution.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w5rkl wrote:
> Garey,
>
> Most of the multi-turn pots I have come across have stops at each end. It typically took 10 turns or so to reach the end. The pot in the T4XB I have appears to not be a multi-turn pot or the pots broken internally. I can rotate it till the cows come home, well over 30 turns either direction, and it never comes to a stop plus it makes no difference in the Carrier Balance adjustment regardless of the rotation position. The Carrier Balance pot in my T4XC is a muti-turn pot and it works.
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>
> 73s
> Mike
> W5RKL
>
>

> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Mike -
>>
>> Yeah, and you'll note that THEY are all multi-turn pots, too! IF the
>> Bal Mod is balanced 'mechanically', you don't need all that range.
>> Seems you ran into that earlier? Or was that someone else who found
>> that the physical location of the wiring IS critical.
>>
>> I suspect they chose that resistor to allow for manufacturing
>> variations, small enough to allow enough resolution, and only large
>> enough to provide a sufficient range.
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>> Heath had less control over the 'mechanics', so needed a wider range,
>> and chose a multi-turn pot to get enough resolution.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> w5rkl wrote:
>>
>>> Garey, I noticed Drake put a 150 ohm 1/2 watt resistor in parallel with the Carrier Balance pot. This changes the resistance from 200 ohms to 85.71 ohms. Most Carrier Balance pots I have run across on other brand transmitters and transceiver, Heathkit to be specific, only have a 200 ohm pot without the parallel resistor across the pot.
>>>
>>>
>>>
>>> --- In DrakeRadio@yahoogroups.com, "w5rkl"<w5rkl@> wrote:
>>>
>>>
>>>> Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found it to be bad when I was aligning the T4XB.
>>>>
>>>> 73s
>>>> Mike
>>>> W5RKL
>>>>
>

4232. AN-5 antenna

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 22:19:07 UTC
From: Terrell Hamilton
Topic: 4232 Message: 4232

Good evening to the group -

Does anyone have a Drake AN-5
antenna for a SPR4 they'd like
to sell? If so, my email is
hamilter@...

73

Terry Hamilton

K7WLD

Wenatchee, WA

[Non-text portions of this message have been removed]

4233. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 22:20:48 UTC
From: w5rkl
Topic: 4223 Message: 4233

Rotating the pot does nothing. The new pots, unfortunately, are not multi-turn pots, just single turn 200 ohm pots.

A previous owner was working in that area, putting a toggle switch to turn the AGC ON and OFF that may have damaged the pot. I can say, rotating the pot does not change the Carrier Control setting no matter how many turns the shaft is rotated. I couldn't find a multi-turn pot of the same kind and, as the schematic shows, 200 ohms, so I had to use single turn pots which will not be as precise as a multi-turn pot would be.

Right now the carrier is nulled quite well but having a faulty pot in the transmitter prevents checking the alignment.

The transmitter had no RF output, not a bit, not even a milliwatt. It's fixed now, found a bad 40 meter het crystal and very dirty band switch wafers and relay contacts. The final tubes were weak but once I found the problem and fixed it, the weak finals did produce about 70 watts output. They have been replaced and the final neutralized. I found the neutralizing cap was set to just a few degrees from full mesh. I set it at half mesh to start and only had to rotate it a few degrees to get the final neutralized.

I was checking the alignment and the step called to rotate the Carrier Balance control fully CCW. After rotating the pot 30 turns or more, it made no difference and the IP current remained steady at 70ma, never increased as it should have. I found a number of adjustments that were off, most likely caused by the previous owner trying to find out what was wrong with the transmitter. The 5645Khz CAR oscillator was also off frequency. Looks like the previous owner had his "Golden Screw Driver" in the transmitter.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, August 23, 2010 2:46 PM
> Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot
>
>
> > Garey,
> >
> > Most of the multi-turn pots I have come across have stops
> > at each end. It typically took 10 turns or so to reach the
> > end. The pot in the T4XB I have appears to not be a
> > multi-turn pot or the pots broken internally. I can rotate

> > it till the cows come home, well over 30 turns either
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> > difference in the Carrier Balance adjustment regardless of
> > the rotation position. The Carrier Balance pot in my T4XC
> > is a muti-turn pot and it works.
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> > I don't recall any Heathkit Carrier Balance pots (Heath
> > called it Carrier Null Control) being multi-turn. The
> > SB-400, SB-401, HW-100, HW-101, and the SB-100 series
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> > then I would replace it with a small PC mount sealed
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> > Anyway, we'll see what happens when the new pots arrive.
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> > Mike
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> the pot is stuck. Of course, its also possible that the link
> from the slow motion drive to the pot is broken. Since you
> are gettin a new one it doesn't make sense to try fixing the
> old one but it would be interesting to disect it to see what
> actually happened to it.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4234. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-23 22:23:53 UTC
From: w5rkl
Topic: 4223 Message: 4234

Garey,

No problem. I'll give it a shot of alcohol and see if that fixes it. I got tired of rotating the shaft so I stopped with the alignment.

I'll have to send you the money and get your CD for the T4XB.

73s
Mike

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> That's what I get for trusting my memory..... :-) You'd think I'd
> learn..... If I listened to Richard, I'd look at my CD and SEE that it
> is a ball drive.
>
> I don't think the Drake pots have a physical stop. It's a ball drive,
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> 73, Garey - K4OAH
> Glen Allen, VA
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> w5rkl wrote:
> > Garey,
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> > 73s
> > Mike
> > W5RKL
> >
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> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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> >> Mike -
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> >> Yeah, and you'll note that THEY are all multi-turn pots, too! IF the
> >> Bal Mod is balanced 'mechanically', you don't need all that range.
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> >> that the physical location of the wiring IS critical.
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> >> I suspect they chose that resistor to allow for manufacturing
> >> variations, small enough to allow enough resolution, and only large
> >> enough to provide a sufficient range.
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> >> Heath had less control over the 'mechanics', so needed a wider range,
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> >> 73, Garey - K4OAH
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> >> w5rkl wrote:
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> >>> Garey, I noticed Drake put a 150 ohm 1/2 watt resistor in parallel with the Carrier Balance pot. This changes the resistance from 200 ohms to 85.71 ohms. Most Carrier Balance pots I have run across on other brand transmitters and transceiver, Heathkit to be specific, only have a 200 ohm pot without the parallel resistor across the pot.
> >>>
> >>>
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, "w5rkl"<w5rkl@> wrote:
> >>>
> >>>
> >>>> Anyone know of a source or have a spare good 200 ohm Carrier Balance pot (chassis mount)? It's not the multi turn pot like the one in the T4XC. This is a single turn pot. I have some small PC mount 200 ohm muti turn pots but I can't use them in the T4XB. I found

it to be bad when I was aligning the T4XB.
> >>>>
> >>>> 73s
> >>>> Mike
> >>>> W5RKL
> >>>>
> >
>

4235. RE: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 02:28:01 UTC
From: Martin
Topic: 4203 Message: 4235

Garey, thanks for your suggestion about these resistors but I've
double-checked all the resistors in this part of circuit and they are all
unfortunately... good...

John VE2VX and Martin VE2EDK VA2ZO

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
part de Garey Barrell
Envoyé : 22 août 2010 10:58
À : DrakeRadio@yahoogroups.com
Objet : Re: [DrakeRadio] T4XC balanced modulator voltage

Martin -

Before you open the BAL MOD, have him check the values of R104 and
R106. It's quite possible that R104 has gone up in value, limiting the
current.

It's also possible that there is a problem inside the BAL MOD can, but
less likely.

How much output power can you get on the low bands with what setting of
the GAIN control????

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Hello Gary
>
> I talk to my friend and he will unbuilt the modulator balanced.
>
> Martin
>
>
>
> De : DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
De la
> part de Garey Barrell
> Envoyé : 20 août 2010 22:25
> À : DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Objet : Re: [DrakeRadio] T4XC balanced modulator voltage
>

>
>
>
>
> Martin -
>
> This is a current point, there are two Ge diode junctions forward biased
> to ground, so if you see more than about 0.6 VDC, one of the diodes is
> blown!
>
> It is necessary to advance the GAIN control further clockwise for CW
> than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4
> o'clock for full output.
>
> How much output are you getting on CW, on which bands.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> jeu3pneu wrote:
>
>> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced
>>
> modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I
think
> it's not enough. There is no indication about this information in the
Manual
> of the radio. Thanks!
>
>> Martin VE2EDK
>>
>>
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>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4236. Re: [DrakeRadio] T4XC balanced modulator voltage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 02:46:49 UTC
From: Garey Barrell
Topic: 4203 Message: 4236

John -

OK. I think you have some test equipment available. If so the attached
sheet may help you narrow down the problem.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Martin wrote:
> Garey, thanks for your suggestion about these resistors but I've
> double-checked all the resistors in this part of circuit and they are all
> unfortunately... good...
>
> John VE2VX and Martin VE2EDK VA2ZO
>
>
>
>
>
> De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la
> part de Garey Barrell
> Envoyé : 22 août 2010 10:58
> À : DrakeRadio@yahoogroups.com
> Objet : Re: [DrakeRadio] T4XC balanced modulator voltage
>
>
>
>
>
> Martin -
>
> Before you open the BAL MOD, have him check the values of R104 and
> R106. It's quite possible that R104 has gone up in value, limiting the
> current.
>
> It's also possible that there is a problem inside the BAL MOD can, but
> less likely.
>
> How much output power can you get on the low bands with what setting of
> the GAIN control????
>
> 73, Garey - K4OAH
> Glen Allen, VA

>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Martin wrote:
>
>> Hello Gary
>>
>> I talk to my friend and he will unbuilt the modulator balanced.
>>
>> Martin
>>
>>
>>
>> De : DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
>>
> [mailto:DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>]
> De la
>
>> part de Garey Barrell
>> Envoyé : 20 août 2010 22:25
>> À : DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
>> Objet : Re: [DrakeRadio] T4XC balanced modulator voltage
>>
>>
>>
>>
>>
>> Martin -
>>
>> This is a current point, there are two Ge diode junctions forward biased
>> to ground, so if you see more than about 0.6 VDC, one of the diodes is
>> blown!
>>
>> It is necessary to advance the GAIN control further clockwise for CW
>> than for SSB. SSB is typically 10 - 11 o'clock, and CW may be 3 - 4
>> o'clock for full output.
>>
>> How much output are you getting on CW, on which bands.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>> jeu3pneu wrote:
>>
>>
>>> Hi, I wonder how should be the D.C. voltage offset on the T-4XC balanced

>>>
>>>
>> modulator for full power C.W. mode? I have only about 0.5 V.D.C. so I
>>
> think
>
>> it's not enough. There is no indication about this information in the
>>
> Manual
>
>> of the radio. Thanks!
>>
>>
>>> Martin VE2EDK
>>>
>>>
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>> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4237. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 04:59:34 UTC
From: Richard Knoppow
Topic: 4223 Message: 4237

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 23, 2010 3:08 PM
Subject: Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Mike -
>
> That's what I get for trusting my memory..... :-)
> You'd think I'd
> learn..... If I listened to Richard, I'd look at my CD
> and SEE that it
> is a ball drive.
>
> I don't think the Drake pots have a physical stop. It's a
> ball drive,
> and only applies so much torque to the wiper. Perhaps
> someone 'oiled'
> the ball drive? You might give it a shot of alcohol to see
> if that's the
> case.
>
> Anyway, the parallel resistor just makes the NULL easier
> to get into
> with LOTS of resolution.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

Maybe not so much memory. The original pot in my rig (which is still in there) has a cap soldered to the back to protect the ball race. The replacement someone very kindly sent me does not so that the reducer can be seen. It consists of two races, three balls, and a plastic cage. The balls are driven by a reduced diameter section of the shaft, maybe 1/16" or a bit larger. The cage either carries or drives whatever carries the wiper. The only stop is the internal stop of the pot. If the wiper has been turned too far it will have gone off one end. That should be obvious from a resistance measurement of the wiper to each end. Otherwise its possible that the cage has cracked, that should be visible. Its hard to imagine that lubricant would be so effective that the balls would just turn in place but that should be visible its happening. Its also possible that the wiper has become stuck to the resistance element in some

way. That would stop the rotation. Since the shaft turns freely its also possible the wiper has come loose from the cage. If this pot does not have the soldered on back on it you should be able to see whats going on.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4238. Re: [DrakeRadio] Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 05:00:50 UTC
From: W6IDS
Topic: 4164 Message: 4238

Hey David!

I tried http://rldrakeservice.com/ which was supposed to be the link
for John and a couple of others. All are dead ends. The link I show
here is pending deletion. Guess he's not in the biz any more.

I'll be contacting Jeff.

Thanks to all for the kind assist.

Howard W6IDS
Richmond, IN EM79NV

----- Original Message -----
From: "David Drake" <drakes@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, August 23, 2010 11:45 AM
Subject: [DrakeRadio] Re: Where To Go For Drake Repair

> You may be closer to John Kriner. His work is excellent as well.
> You would have to ship the rig to Jeff, but if thats ok, he's the guy.
> There is a listing of repair people on www.wb4hfn.com as well as
> the drake museum site.
> 73's
> David
> Wd9cmd
>

4239. Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 13:25:27 UTC
From: bcbcfd
Topic: 4164 Message: 4239

I have had an excellent experience with Jeff Covelli in repairing and aligning my 4b equipment w/ power supply. I would definitely recomend him wihtout hesitation.

Len, K3LJ

--- In DrakeRadio@yahoogroups.com, "W6IDS" <w6ids@...> wrote:
>
>
>
> Hello To All,
>
> I live in Richmond, IN which is right on the IN/OH border and
> about 35 miles West of Dayton.
>
> Does anyone have a good source in mind, convenient to my
> location per se, that does work on our Drakes like my "Twins"??
>
> Howard W6IDS
> Richmond, IN EM79NV
>

4240. Re: [DrakeRadio] Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 13:51:40 UTC
From: Garey Barrell
Topic: 4164 Message: 4240

Howard -

John Kriner is still working at Drake, and so far as I know, still doing
service.

<jkriner@...>

Jeff is excellent as well.

Also Gary, WA8SAJ @ <gpoland1@...>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

W6IDS wrote:
> Hey David!
>
> I tried http://rldrakeservice.com/ which was supposed to be the link
> for John and a couple of others. All are dead ends. The link I show
> here is pending deletion. Guess he's not in the biz any more.
>
> I'll be contacting Jeff.
>
> Thanks to all for the kind assist.
>
> Howard W6IDS
> Richmond, IN EM79NV
>
> ----- Original Message -----
> From: "David Drake"<drakes@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Monday, August 23, 2010 11:45 AM
> Subject: [DrakeRadio] Re: Where To Go For Drake Repair
>
>
>
>> You may be closer to John Kriner. His work is excellent as well.
>> You would have to ship the rig to Jeff, but if thats ok, he's the guy.
>> There is a listing of repair people on www.wb4hfn.com as well as
>> the drake museum site.
>> 73's
>> David
>> Wd9cmd
>

4241. RE: [DrakeRadio] Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 14:01:09 UTC
From: Bob Spooner
Topic: 4164 Message: 4241

I, too, have had a good experience with Jeff repairing my TR7A, and recommend him.

73,
Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of bcbcfd
Sent: Tuesday, August 24, 2010 9:25 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Where To Go For Drake Repair

I have had an excellent experience with Jeff Covelli in repairing and aligning my 4b equipment w/ power supply. I would definitely recomend him wihtout hesitation.

Len, K3LJ

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>, "W6IDS" <w6ids@...> wrote:
>
>
>
> Hello To All,
>
> I live in Richmond, IN which is right on the IN/OH border and
> about 35 miles West of Dayton.
>
> Does anyone have a good source in mind, convenient to my
> location per se, that does work on our Drakes like my "Twins"??
>
> Howard W6IDS
> Richmond, IN EM79NV
>

[Non-text portions of this message have been removed]

4242. RE: [DrakeRadio] Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 14:41:31 UTC
From: Brenton Crowhurst
Topic: 4164 Message: 4242

I followed this link from David's post

http://www.wb4hfn.com/Services/WB4HFN/RepairHomePage.htm

Though this is Ron Baker, not John Kriner.

Interestingly, in my very first qso on my TR7, WB9JOX, Ted, recommended this guy highly -- he seemed to know a thing or two about Drakes.

Good to know there are a few good Drake Techs around for us!

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of W6IDS [w6ids@...]
Sent: August 23, 2010 11:00 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Where To Go For Drake Repair

Hey David!

I tried http://rldrakeservice.com/ which was supposed to be the link for John and a couple of others. All are dead ends. The link I show here is pending deletion. Guess he's not in the biz any more.

I'll be contacting Jeff.

Thanks to all for the kind assist.

Howard W6IDS
Richmond, IN EM79NV

----- Original Message -----
From: "David Drake" <drakes@...<mailto:drakes%40psci.net>>
To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
Sent: Monday, August 23, 2010 11:45 AM
Subject: [DrakeRadio] Re: Where To Go For Drake Repair

> You may be closer to John Kriner. His work is excellent as well.
> You would have to ship the rig to Jeff, but if thats ok, he's the guy.
> There is a listing of repair people on www.wb4hfn.com as well as
> the drake museum site.
> 73's
> David

> Wd9cmd
>

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4243. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 15:52:12 UTC
From: w5rkl
Topic: 4223 Message: 4243

Hi Richard,

The pot in the T4XB has a cap on the bottom that looks to be soldered in place. Therefore, I can't visually look at the ball and shaft mechanism to determine what has happened. When I pull the pot I'll remove the cover to see what has happened. The same pot in my T4XC does not have a cover over the bottom so I can see the 3 balls and the bottom of the shaft movement when rotating the pot's shaft.

I measured the resistance between the wiper and each end while rotating the pot's shaft and the resistance does not change, regardless of the shaft's position.

I don't believe the wiper has slid off the resistance material because if it had then the carrier oscillator signal would not be present at the grid of V2 which would result in no RF output. I can see the carrier oscillator signal at V2's grid and the transmitter does produce RF output.

Whether the wiper is frozen to the resistance material or something else is causing the wiper to not move when the shaft is rotate, I will hopefully find out when I remove the pot and take the bottom cover off.

I don't know what the previous owner to troubleshoot the initial no RF output problem but it does appear he/she did adjust the RF and INJ caps on the left side along with the carrier oscillator in what appears to be steps to determine/fix the initial no RF output problem. The transmitter works now but I want to check the alignment since I found a few of the other cap settings were out of alignment.

73s
Mike
W5RKL

> Maybe not so much memory. The original pot in my rig
> (which is still in there) has a cap soldered to the back to
> protect the ball race. The replacement someone very kindly
> sent me does not so that the reducer can be seen. It
> consists of two races, three balls, and a plastic cage. The
> balls are driven by a reduced diameter section of the shaft,
> maybe 1/16" or a bit larger. The cage either carries or
> drives whatever carries the wiper. The only stop is the
> internal stop of the pot. If the wiper has been turned too
> far it will have gone off one end. That should be obvious
> from a resistance measurement of the wiper to each end.
> Otherwise its possible that the cage has cracked, that
> should be visible. Its hard to imagine that lubricant would
> be so effective that the balls would just turn in place but
> that should be visible its happening. Its also possible that
> the wiper has become stuck to the resistance element in some
> way. That would stop the rotation. Since the shaft turns

> freely its also possible the wiper has come loose from the
> cage. If this pot does not have the soldered on back on it
> you should be able to see whats going on.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4244. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 16:13:25 UTC
From: Bob Macklin
Topic: 4223 Message: 4244

Take the pot out and clean it. Pots don't usually fail. But they do get dirty.

If the pot shaft is stuck then the ball drive will just turn continiously with no change in resistance.

You should be able to clean the pot and the ball drive or find someone who can.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, August 24, 2010 8:52 AM
Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Hi Richard,

The pot in the T4XB has a cap on the bottom that looks to be soldered in place. Therefore, I can't visually look at the ball and shaft mechanism to determine what has happened. When I pull the pot I'll remove the cover to see what has happened. The same pot in my T4XC does not have a cover over the bottom so I can see the 3 balls and the bottom of the shaft movement when rotating the pot's shaft.

I measured the resistance between the wiper and each end while rotating the pot's shaft and the resistance does not change, regardless of the shaft's position.

I don't believe the wiper has slid off the resistance material because if it had then the carrier oscillator signal would not be present at the grid of V2 which would result in no RF output. I can see the carrier oscillator signal at V2's grid and the transmitter does produce RF output.

Whether the wiper is frozen to the resistance material or something else is causing the wiper to not move when the shaft is rotate, I will hopefully find out when I remove the pot and take the bottom cover off.

I don't know what the previous owner to troubleshoot the initial no RF output problem but it does appear he/she did adjust the RF and INJ caps on the left side along with the carrier oscillator in what appears to be steps to determine/fix the initial no RF output problem. The transmitter works now but I want to check the alignment since I found a few of the other cap settings were out of alignment.

73s
Mike
W5RKL

> Maybe not so much memory. The original pot in my rig
> (which is still in there) has a cap soldered to the back to
> protect the ball race. The replacement someone very kindly
> sent me does not so that the reducer can be seen. It
> consists of two races, three balls, and a plastic cage. The
> balls are driven by a reduced diameter section of the shaft,
> maybe 1/16" or a bit larger. The cage either carries or
> drives whatever carries the wiper. The only stop is the
> internal stop of the pot. If the wiper has been turned too
> far it will have gone off one end. That should be obvious
> from a resistance measurement of the wiper to each end.
> Otherwise its possible that the cage has cracked, that
> should be visible. Its hard to imagine that lubricant would
> be so effective that the balls would just turn in place but
> that should be visible its happening. Its also possible that
> the wiper has become stuck to the resistance element in some
> way. That would stop the rotation. Since the shaft turns
> freely its also possible the wiper has come loose from the
> cage. If this pot does not have the soldered on back on it
> you should be able to see whats going on.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

[Non-text portions of this message have been removed]

4245. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 16:55:28 UTC
From: Richard Knoppow
Topic: 4223 Message: 4245

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, August 24, 2010 9:13 AM
Subject: Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Take the pot out and clean it. Pots don't usually fail.
> But they do get dirty.
>
> If the pot shaft is stuck then the ball drive will just
> turn continiously with no change in resistance.
>
> You should be able to clean the pot and the ball drive or
> find someone who can.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

Its a standard open type pot. I would start by
squirting some Deoxit into the slot around the terminal
board. and working the shaft back and forth a little. Caig
also makes a pot lubricant. If the wiper has become frozen
to the element there should be some resistance when turning
since the balls can't move and will have to turn against the
outer race. A working pot turns very smoothly. Because the
pot handles only low level RF it might only be dirty. My
concern is that someone may have put enough DC on it to weld
the wiper to the resistance track. If not the contact
cleaner should free it up although it may take several
doses. '

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4246. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 19:58:29 UTC
From: w5rkl
Topic: 4223 Message: 4246

Hi Richard,

I already cleaned the pot with contact cleaner plus blew canned air into the pot's opening after rotating the pot a number of turns in both directions. This was done a couple of times but unfortunately that didn't fix the pot's problem.

I agree, pots do not normally fail and they do get dirty. My plan is to remove the pot, remove the cover, and inspect the pot to see if it's salvageable.

Thanks everyone for your help and information.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Bob Macklin" <macklinbob@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, August 24, 2010 9:13 AM
> Subject: Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot
>
>
> > Take the pot out and clean it. Pots don't usually fail.
> > But they do get dirty.
> >
> > If the pot shaft is stuck then the ball drive will just
> > turn continiously with no change in resistance.
> >
> > You should be able to clean the pot and the ball drive or
> > find someone who can.
> >
> > Bob Macklin
> > K5MYJ
> > Seattle, Wa.
>
> Its a standard open type pot. I would start by
> squirting some Deoxit into the slot around the terminal
> board. and working the shaft back and forth a little. Caig
> also makes a pot lubricant. If the wiper has become frozen
> to the element there should be some resistance when turning
> since the balls can't move and will have to turn against the
> outer race. A working pot turns very smoothly. Because the
> pot handles only low level RF it might only be dirty. My

> concern is that someone may have put enough DC on it to weld
> the wiper to the resistance track. If not the contact
> cleaner should free it up although it may take several
> doses. '
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4247. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 20:22:03 UTC
From: Don Cunningham
Topic: 4223 Message: 4247

Mike,
One thing that has not been mentioned about the checking alignment you have mentioned. Be sure you look on pg 38 of the T-4XB manual and check the slug settings BEFORE you start the alignment. This page tells you how to set the slug rack up to measure each band, and over the years, I have found that someone totally lost and trying to align a broken transmitter WILL tweak the daylights out of these, for some reason. Also, in the CB heyday in the rush to "put the Drakes on 11m", they ALWAYS messed the 28 meg slugs. This will save you a lot of time if checked first. Do mind the cautions about the +250v on S-4a during alignment too!!! Good luck on the carrier balance problem.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4248. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 20:44:24 UTC
From: Richard Knoppow
Topic: 4223 Message: 4248

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, August 24, 2010 8:52 AM
Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Hi Richard,
>
> The pot in the T4XB has a cap on the bottom that looks to
> be soldered in place. Therefore, I can't visually look at
> the ball and shaft mechanism to determine what has
> happened. When I pull the pot I'll remove the cover to see
> what has happened. The same pot in my T4XC does not have a
> cover over the bottom so I can see the 3 balls and the
> bottom of the shaft movement when rotating the pot's
> shaft.
>
> I measured the resistance between the wiper and each end
> while rotating the pot's shaft and the resistance does not
> change, regardless of the shaft's position.
>
> I don't believe the wiper has slid off the resistance
> material because if it had then the carrier oscillator
> signal would not be present at the grid of V2 which would
> result in no RF output. I can see the carrier oscillator
> signal at V2's grid and the transmitter does produce RF
> output.
>
> Whether the wiper is frozen to the resistance material or
> something else is causing the wiper to not move when the
> shaft is rotate, I will hopefully find out when I remove
> the pot and take the bottom cover off.
>
> I don't know what the previous owner to troubleshoot the
> initial no RF output problem but it does appear he/she did
> adjust the RF and INJ caps on the left side along with the
> carrier oscillator in what appears to be steps to
> determine/fix the initial no RF output problem. The
> transmitter works now but I want to check the alignment
> since I found a few of the other cap settings were out of
> alignment.
>
> 73s
> Mike
> W5RKL

I think maybe its just broken. You would have to disect
it to find out what happened. When I thought I had a bad pot
someone was kind enough to send me a replacement, I still
have it. The back is open but you could remove the cap from
yours and install it. I don't even remember if I payed
anything beyond postage for it. If you want it I will send
it to you. I need an address.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4249. Re: [DrakeRadio] Re: Where To Go For Drake Repair

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 22:18:14 UTC
From: Dan Galligan
Topic: 4164 Message: 4249

I must admit, I am a bit prejudiced. I have had work done by Jeff Covelli, twice, and would not consider anyone else. I shipped all 3 parts to him, each time, and each time it cost me about $82-$84, total, and he included return shipping in my cost. His price was more than fair, and his work was top notch. You can check my rating on eHam, to see more of what I think of his work. But, for me, it was well worth the additional cost, to know they were worked on by the best Drake tech around.
Dan
W3RXO/6

4250. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 22:36:06 UTC
From: w5rkl
Topic: 4223 Message: 4250

Thanks Richard but, for now, I have 2 new single turn pots and one NOS multi-turn pot coming. If these don't work which, at this point I don't have any reason to believe they will not work, then I'll get back with you.

Again, thank you for your input and suggestions, they are appreciated very much.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, August 24, 2010 8:52 AM
> Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot
>
>
> > Hi Richard,
> >
> > The pot in the T4XB has a cap on the bottom that looks to
> > be soldered in place. Therefore, I can't visually look at
> > the ball and shaft mechanism to determine what has
> > happened. When I pull the pot I'll remove the cover to see
> > what has happened. The same pot in my T4XC does not have a
> > cover over the bottom so I can see the 3 balls and the
> > bottom of the shaft movement when rotating the pot's
> > shaft.
> >
> > I measured the resistance between the wiper and each end
> > while rotating the pot's shaft and the resistance does not
> > change, regardless of the shaft's position.
> >
> > I don't believe the wiper has slid off the resistance
> > material because if it had then the carrier oscillator
> > signal would not be present at the grid of V2 which would
> > result in no RF output. I can see the carrier oscillator
> > signal at V2's grid and the transmitter does produce RF
> > output.
> >
> > Whether the wiper is frozen to the resistance material or
> > something else is causing the wiper to not move when the
> > shaft is rotate, I will hopefully find out when I remove
> > the pot and take the bottom cover off.

> >
> > I don't know what the previous owner to troubleshoot the
> > initial no RF output problem but it does appear he/she did
> > adjust the RF and INJ caps on the left side along with the
> > carrier oscillator in what appears to be steps to
> > determine/fix the initial no RF output problem. The
> > transmitter works now but I want to check the alignment
> > since I found a few of the other cap settings were out of
> > alignment.
> >
> > 73s
> > Mike
> > W5RKL
> I think maybe its just broken. You would have to disect
> it to find out what happened. When I thought I had a bad pot
> someone was kind enough to send me a replacement, I still
> have it. The back is open but you could remove the cap from
> yours and install it. I don't even remember if I payed
> anything beyond postage for it. If you want it I will send
> it to you. I need an address.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4251. Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-24 23:41:25 UTC
From: w5rkl
Topic: 4223 Message: 4251

Thanks Don. I have already checked the slugs to ensure they are at the correct height as shown in the manual on page 38 step 4.

I agree, there are people out there that will make adjustments that will create more problems then the equipment initially had, all because they don't know what they are doing. Fortunately the T4XB slugs were not messed with. The RF and INJ caps along with the carrier oscillator and Neutralizing cap were.

The transmitter produces RF output, something it didn't do when I first got it. I did find a bad 40 meter het crystal plus the het oscillator switch wafers along with the other band switch wafers were very dirty. I cleaned them all plus the crystal sockets and the pins on the crystals themselves and with a new 40 meter crystal from International Crystals in OK City, the transmitter works.

Again, thank you for your comments/suggestions, I greatly appreciate each and every one of them.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Mike,
> One thing that has not been mentioned about the checking alignment you have mentioned. Be sure you look on pg 38 of the T-4XB manual and check the slug settings BEFORE you start the alignment. This page tells you how to set the slug rack up to measure each band, and over the years, I have found that someone totally lost and trying to align a broken transmitter WILL tweak the daylights out of these, for some reason. Also, in the CB heyday in the rush to "put the Drakes on 11m", they ALWAYS messed the 28 meg slugs. This will save you a lot of time if checked first. Do mind the cautions about the +250v on S-4a during alignment too!!! Good luck on the carrier balance problem.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4252. Re: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-25 08:18:06 UTC
From: Richard Knoppow
Topic: 4223 Message: 4252

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, August 24, 2010 3:36 PM
Subject: [DrakeRadio] Re: 200 ohm Carrier Balance Pot

> Thanks Richard but, for now, I have 2 new single turn pots
> and one NOS multi-turn pot coming. If these don't work
> which, at this point I don't have any reason to believe
> they will not work, then I'll get back with you.
>
> Again, thank you for your input and suggestions, they are
> appreciated very much.
>
> 73s
> Mike
> W5RKL
>
I didn't realize you had a replacement. I would use the
ten turn pot, the plain ones might be a bit touchy to null.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4253. digest 935

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-25 17:24:18 UTC
From: Dick KF4NS
Topic: 4253 Message: 4253

For some strange reason this digest has no text showing in my Outlook Express. Is this a problem with OE or did someone else get the same result?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4254. FS: Very Clean Drake TR-4 w/MS4 and AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-26 15:43:07 UTC
From: Dave Tipton
Topic: 4254 Message: 4254

I have a complete working (And darn near pristine) TR4 set that I need to offload. (I'm keeping my T4X/R4 combo) I've completely run out of space and want someone who might actually use the thing to have it.

It has been cleaned up, and the one non-standard thing is that the lights have been replaced with blue LED's. The copper is even clean. It's a very nice radio.

I've only used it on 40 and 20, but output power was around 150 Watts without trying to push it. The only thing you'll need is a microphone.

I have videos and photos of the rig on request.

Asking price is $350 + Shipping which would be in 2 boxes, with the AC4 removed from the MS4.

Thanks,
Dave, W5DMT

4255. MN-4 Tuner cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 17:02:24 UTC
From: Michelle_T
Topic: 4255 Message: 4255

I have a new in box from Drake a MN-4 cabinet, I am open to offers on this.

Michelle WB8QGR

4256. Re: [DrakeRadio] MN-4 Tuner cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 17:16:08 UTC
From: Joe
Topic: 4255 Message: 4256

Hi Michelle...

Take some pics and post them somewhere we can see them.

Thanks!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Michelle_T" <michelle@...>
Subject: [DrakeRadio] MN-4 Tuner cabinet

>I have a new in box from Drake a MN-4 cabinet, I am open to offers on this.

4257. Re: [DrakeRadio] MN-4 Tuner cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 17:26:27 UTC
From: Les Zwiebel
Topic: 4255 Message: 4257

Hi, Michelle, I could use that, and I'd like to buy it for $45 shipped. Upon receipt of your confirmation and address, I'll send you a check straight away. Thanks in advance.
(((73)))
Regards,
Les

-----Original Message-----
From: "Michelle_T" <michelle@...>
Sender: DrakeRadio@yahoogroups.com
Date: Sat, 28 Aug 2010 17:02:24
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] MN-4 Tuner cabinet

I have a new in box from Drake a MN-4 cabinet, I am open to offers on this.

Michelle WB8QGR

[Non-text portions of this message have been removed]

4258. MN-4 Cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 17:46:16 UTC
From: Michelle_T
Topic: 4258 Message: 4258

Pictures are in a folder named "MN-4 Cabinet"

Michelle

4259. TR-3 TR-4 TR-4C S-Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 18:06:46 UTC
From: Michelle_T
Topic: 4259 Message: 4259

I also have a new in package a S-meter for the TR-3 TR-4 TR-4C. I am open for offers on this also, A picture can be found in the "MN-4 Cabinet" folder.

Michelle WB8QGR

4260. FS- TR4 in excellent condition.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 20:14:20 UTC
From: Dave Tipton, W5DMT
Topic: 4259 Message: 4260

If anyone is interested, I have a TR-4 with MS4 and AC4 in excellent condition for sale. I have photos if anyone is interested. I am keeping my T4X/R4, so I'm not out of Drake gear all together, but I need to make some space.

I'll take $350 plus shipping. Paypal is preferred.

Thanks,
Dave, W5DMT

[Non-text portions of this message have been removed]

4261. Re: [DrakeRadio] FS- TR4 in excellent condition.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 20:22:04 UTC
From: firemech048@cfl.rr.com
Topic: 4259 Message: 4261

Do you have any pics of it?
--
73's WD4OHM
Henry Gilmore

---- "Dave Tipton wrote:
> If anyone is interested, I have a TR-4 with MS4 and AC4 in excellent
> condition for sale. I have photos if anyone is interested. I am keeping my
> T4X/R4, so I'm not out of Drake gear all together, but I need to make some
> space.
>
>
>
> I'll take $350 plus shipping. Paypal is preferred.
>
>
>
> Thanks,
> Dave, W5DMT
>
>
>
> [Non-text portions of this message have been removed]
>

4262. RE: [DrakeRadio] MN-4 Tuner cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 21:02:18 UTC
From: Greg Schultz Sr
Topic: 4255 Message: 4262

Is it still for sale and does it include the chassis

W5RY

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Michelle_T
Sent: Saturday, August 28, 2010 12:02 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] MN-4 Tuner cabinet

I have a new in box from Drake a MN-4 cabinet, I am open to offers on this.

Michelle WB8QGR

[Non-text portions of this message have been removed]

4263. Re: MN-4 Tuner cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-28 23:23:39 UTC
From: Michelle_T
Topic: 4255 Message: 4263

This is a new empty cabinet only. Michelle

4264. MN-2000 for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-30 12:18:13 UTC
From: W1TY
Topic: 4264 Message: 4264

On eBay. Expires Wednesday.

http://cgi.ebay.com/DRAKE-MN-2000-Tuner-Excellent-Condition-/290468233958?pt=LH_DefaultDomain_0&hash=item43a14182e6

4265. PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 02:36:01 UTC
From: Gary
Topic: 4265 Message: 4265

Hi Everyone,
I am Gary, WB6OGD from Northern California.
Been a ham since 1965 and a Drake lover since, well,
1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
I was wondering if someone can tell me what's inside the
"don't ever open it up" Drake PTO. I am wondering because
my R4A has a +/- 2.5KHz cal error difference end to end.. It does
seem to meet the spec (+/-1Khz when calibrated at the nearest
100KHz point, if I recall correctly), but is there anyway
to "tweak" it closer? My T4X (older than the R4A) is only
about +/-1.5Khz.
73,
Gary Winblad
WB6OGD
Dublin, CA

4266. Re: [DrakeRadio] PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 03:32:08 UTC
From: Jim Shorney
Topic: 4265 Message: 4266

On Tue, 31 Aug 2010 02:36:01 -0000, Gary wrote:

>I was wondering if someone can tell me what's inside the
>"don't ever open it up" Drake PTO.

Little parts and magic smoke. :) Seriously, I might have some usable pics of a TR-7 PTO if no one else comes up with anything. Schematics are available elsewhere. Nothing unusual WRT VFO circuits.

> I am wondering because
>my R4A has a +/- 2.5KHz cal error difference end to end..

That's not too bad. Are we getting that picky in this digital age? ;)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4267. Re: [DrakeRadio] PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 03:37:34 UTC
From: Garey Barrell
Topic: 4265 Message: 4267

Gary -

Welcome to the group.

There's not a whole lot inside the can, BUT 'everything' in there is position sensitive! There is stuff, 'selected' TC caps, etc., hanging in mid air in some of them.

The PTO is specified as accurate to within ? 1 kHz when calibrated at the nearest 100 kHz point, and the total error end-to-end as 3 kHz. There are no linearity adjustments on the PTO.

Best advice is to not open it up except for total failure of a transistor or Zener, and ONLY then, and with great care to not disturb anything!. PTO alignment was considered 'magic' at the factory, there were only a few 'ladies' who set them up with lots of hand-waving while they talked with each other about their grandchildren.

I don't know of anyone who has _successfully_ 'improved' the linearity of a PTO, but I know of several who have managed to make it MUCH worse! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Hi Everyone,
> I am Gary, WB6OGD from Northern California.
> Been a ham since 1965 and a Drake lover since, well,
> 1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
> I was wondering if someone can tell me what's inside the
> "don't ever open it up" Drake PTO. I am wondering because
> my R4A has a +/- 2.5KHz cal error difference end to end.. It does
> seem to meet the spec (+/-1Khz when calibrated at the nearest
> 100KHz point, if I recall correctly), but is there anyway
> to "tweak" it closer? My T4X (older than the R4A) is only
> about +/-1.5Khz.
> 73,
> Gary Winblad
> WB6OGD
> Dublin, CA
>
>

4268. Re: [DrakeRadio] PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 03:43:56 UTC
From: Garey Barrell
Topic: 4265 Message: 4268

Gary -

Here's a photo of a TR-7 PTO board. This is the 'safe' side!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Hi Everyone,
> I am Gary, WB6OGD from Northern California.
> Been a ham since 1965 and a Drake lover since, well,
> 1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
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> "don't ever open it up" Drake PTO. I am wondering because
> my R4A has a +/- 2.5KHz cal error difference end to end.. It does
> seem to meet the spec (+/-1Khz when calibrated at the nearest
> 100KHz point, if I recall correctly), but is there anyway
> to "tweak" it closer? My T4X (older than the R4A) is only
> about +/-1.5Khz.
> 73,
> Gary Winblad
> WB6OGD
> Dublin, CA
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4269. Re: PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 04:04:17 UTC
From: Gary
Topic: 4265 Message: 4269

Thanks Guys,
I knew I shouldn't open it up, that's why I was wondering what was
inside ;-)
Gary

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Gary -
>
> Welcome to the group.
>
> There's not a whole lot inside the can, BUT 'everything' in there is
> position sensitive! There is stuff, 'selected' TC caps, etc., hanging
> in mid air in some of them.
>
> The PTO is specified as accurate to within ± 1 kHz when calibrated at
> the nearest 100 kHz point, and the total error end-to-end as 3 kHz.
> There are no linearity adjustments on the PTO.
>
> Best advice is to not open it up except for total failure of a
> transistor or Zener, and ONLY then, and with great care to not disturb
> anything!. PTO alignment was considered 'magic' at the factory, there
> were only a few 'ladies' who set them up with lots of hand-waving while
> they talked with each other about their grandchildren.
>
> I don't know of anyone who has _successfully_ 'improved' the linearity
> of a PTO, but I know of several who have managed to make it MUCH worse! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Gary wrote:
> > Hi Everyone,
> > I am Gary, WB6OGD from Northern California.
> > Been a ham since 1965 and a Drake lover since, well,
> > 1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
> > I was wondering if someone can tell me what's inside the
> > "don't ever open it up" Drake PTO. I am wondering because
> > my R4A has a +/- 2.5KHz cal error difference end to end.. It does
> > seem to meet the spec (+/-1Khz when calibrated at the nearest
> > 100KHz point, if I recall correctly), but is there anyway

> > to "tweak" it closer? My T4X (older than the R4A) is only
> > about +/-1.5Khz.
> > 73,
> > Gary Winblad
> > WB6OGD
> > Dublin, CA
> >
> >
>

4270. Re: [DrakeRadio] Re: PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-08-31 04:06:32 UTC
From: Garey Barrell
Topic: 4265 Message: 4270

Gary -

I've got some other pix around here somewhere that show the 'other'
side, (kinda like the 'other side' of the moon!,) but I can't find them
tonight. Perhaps tomorrow.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Thanks Guys,
> I knew I shouldn't open it up, that's why I was wondering what was
> inside ;-)
> Gary
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Gary -
>>
>> Welcome to the group.
>>
>> There's not a whole lot inside the can, BUT 'everything' in there is
>> position sensitive! There is stuff, 'selected' TC caps, etc., hanging
>> in mid air in some of them.
>>
>> The PTO is specified as accurate to within ? 1 kHz when calibrated at
>> the nearest 100 kHz point, and the total error end-to-end as 3 kHz.
>> There are no linearity adjustments on the PTO.
>>
>> Best advice is to not open it up except for total failure of a
>> transistor or Zener, and ONLY then, and with great care to not disturb
>> anything!. PTO alignment was considered 'magic' at the factory, there
>> were only a few 'ladies' who set them up with lots of hand-waving while
>> they talked with each other about their grandchildren.
>>
>> I don't know of anyone who has _successfully_ 'improved' the linearity
>> of a PTO, but I know of several who have managed to make it MUCH worse! :-)
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>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>

>>
>>
>> Gary wrote:
>>
>>> Hi Everyone,
>>> I am Gary, WB6OGD from Northern California.
>>> Been a ham since 1965 and a Drake lover since, well,
>>> 1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
>>> I was wondering if someone can tell me what's inside the
>>> "don't ever open it up" Drake PTO. I am wondering because
>>> my R4A has a +/- 2.5KHz cal error difference end to end.. It does
>>> seem to meet the spec (+/-1Khz when calibrated at the nearest
>>> 100KHz point, if I recall correctly), but is there anyway
>>> to "tweak" it closer? My T4X (older than the R4A) is only
>>> about +/-1.5Khz.
>>> 73,
>>> Gary Winblad
>>> WB6OGD
>>> Dublin, CA
>>>
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> Yahoo! Groups Links
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4271. TR-4C Refurbishing & Cleaning.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-01 12:48:32 UTC
From: fdonnelly98
Topic: 4271 Message: 4271

Just joined your group. Lots of good info here.
I bought a Drake TR-4C Xcvr from an SK estate. I have brought it back to life and now I want to clean it up. I have removed all tubes and PA shields & front panel. Yes, I made sure I saved the four spacers for the front panel. The top of the chassis is pretty dirty. Looks like a some pitting& corrosion on top surfaces only. Any recommendations on Proper cleaning methods. I don't want to do a complete restoration, just refurbish it.
I have used the 409 & water, & oven method on some R-390A modules with good results, but I am a little hesitant to go that route with my TR-4C. Anybody tried this, or any other suggestions.

Also Where can I find the little red plastic SSB indicator lenses.
I have one missing.
Many thanks in advance
Frank KI0RQ

4272. Re: FS: Very Clean Drake TR-4 w/MS4 and AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-01 15:26:48 UTC
From: fdonnelly98
Topic: 4254 Message: 4272

Hi Dave; Can you send a few Pics to me at goober@...
Thanks Frank KI0RQ

--- In DrakeRadio@yahoogroups.com, "Dave Tipton" <dave@...> wrote:
>
> I have a complete working (And darn near pristine) TR4 set that I need to offload. (I'm keeping my T4X/R4 combo) I've completely run out of space and want someone who might actually use the thing to have it.
>
> It has been cleaned up, and the one non-standard thing is that the lights have been replaced with blue LED's. The copper is even clean. It's a very nice radio.
>
> I've only used it on 40 and 20, but output power was around 150 Watts without trying to push it. The only thing you'll need is a microphone.
>
> I have videos and photos of the rig on request.
>
> Asking price is $350 + Shipping which would be in 2 boxes, with the AC4 removed from the MS4.
>
> Thanks,
> Dave, W5DMT
>

4273. RE: [DrakeRadio] Re: FS: Very Clean Drake TR-4 w/MS4 and AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-01 15:37:42 UTC
From: Dave Tipton, W5DMT
Topic: 4254 Message: 4273

Sorry, it's already been sold.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of fdonnelly98
Sent: Wednesday, September 01, 2010 10:27 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: FS: Very Clean Drake TR-4 w/MS4 and AC4

Hi Dave; Can you send a few Pics to me at goober@...
<mailto:goober%40centurytel.net>
Thanks Frank KI0RQ

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "Dave Tipton" <dave@...> wrote:
>
> I have a complete working (And darn near pristine) TR4 set that I need to offload. (I'm keeping my T4X/R4 combo) I've completely run out of space and want someone who might actually use the thing to have it.
>
> It has been cleaned up, and the one non-standard thing is that the lights have been replaced with blue LED's. The copper is even clean. It's a very nice radio.
>
> I've only used it on 40 and 20, but output power was around 150 Watts without trying to push it. The only thing you'll need is a microphone.
>
> I have videos and photos of the rig on request.
>
> Asking price is $350 + Shipping which would be in 2 boxes, with the AC4 removed from the MS4.
>
> Thanks,
> Dave, W5DMT
>

[Non-text portions of this message have been removed]

4274. Re: [DrakeRadio] Re: PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 04:05:14 UTC
From: Chris Farley
Topic: 4265 Message: 4274

While we're on this subject, any advice on a dead pto in my T4XC? Trust me, I had reason for doing it, but the whole chassis literally got "the car wash" treatment. For whatever reason, I did not remove the PTO beforehand... Unsure if it was dead before or not, but it surely is now. With external excitation, the xmtr functions perfectly- so not an IF issue. Are there any particular key components that like to "go" in these things? I don't want to poke around too much and risk making it a mini boatanchor...

Regards,
Chris kc9ieq

--- On Mon, 8/30/10, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: PTO photos?.. and Introduction
To: DrakeRadio@yahoogroups.com
Date: Monday, August 30, 2010, 11:06 PM

Gary -

I've got some other pix around here somewhere that show the 'other'
side, (kinda like the 'other side' of the moon!,) but I can't find them
tonight. Perhaps tomorrow.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Thanks Guys,
> I knew I shouldn't open it up, that's why I was wondering what was
> inside ;-)
> Gary
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Gary -
>>
>> Welcome to the group.
>>
>> There's not a whole lot inside the can, BUT 'everything' in there is
>> position sensitive! There is stuff, 'selected' TC caps, etc., hanging
>> in mid air in some of them.
>>
>> The PTO is specified as accurate to within ± 1 kHz when calibrated at
>> the nearest 100 kHz point, and the total error end-to-end as 3 kHz.

>> There are no linearity adjustments on the PTO.
>>
>> Best advice is to not open it up except for total failure of a
>> transistor or Zener, and ONLY then, and with great care to not disturb
>> anything!. PTO alignment was considered 'magic' at the factory, there
>> were only a few 'ladies' who set them up with lots of hand-waving while
>> they talked with each other about their grandchildren.
>>
>> I don't know of anyone who has _successfully_ 'improved' the linearity
>> of a PTO, but I know of several who have managed to make it MUCH worse! :-)
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Gary wrote:
>>
>>> Hi Everyone,
>>> I am Gary, WB6OGD from Northern California.
>>> Been a ham since 1965 and a Drake lover since, well,
>>> 1965!! I have an old R4A/T4X that I will be buried with.. Hi Hi..
>>> I was wondering if someone can tell me what's inside the
>>> "don't ever open it up" Drake PTO. I am wondering because
>>> my R4A has a +/- 2.5KHz cal error difference end to end.. It does
>>> seem to meet the spec (+/-1Khz when calibrated at the nearest
>>> 100KHz point, if I recall correctly), but is there anyway
>>> to "tweak" it closer? My T4X (older than the R4A) is only
>>> about +/-1.5Khz.
>>> 73,
>>> Gary Winblad
>>> WB6OGD
>>> Dublin, CA
>>>
>>>
>>>
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

[Non-text portions of this message have been removed]

4275. Re: Twinlead to Drake MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 12:34:59 UTC
From: ko7i
Topic: 4185 Message: 4275

Most likely the bifilar windings and the core combination are resonating and or the core it saturating. Did you follow the design instructions from a reputable pulication?
I myself got fed up with cheap baluns and paid the $$ for a DX Engineering 4:1 balun. It is rated to 10kW and covers 160 - 10 meters. mainly to avoid the core saturating and then having go non-linear in behavior as it goes into air core inductance mode. The balun is huge when compared to lesser wan'na be balun's.
73 and Good Luck, Don KO7i Arlington, WA

--- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@...> wrote:
>
> I'm interested in hearing advice about what would be the optimum method of connecting my 300 ohm twinlead-fed 40 meter dipole to my Drake MN-4 transmatch, as the MN-4 doesn't have provisions for a balanced line feed.
>
> Currently I have the twinlead attached to a homebrew airwound 4:1 balun, and then a short run of 213 coax into the shack to the MN-4. Loads up OK on most bands, but gets a little sketchy on 20 meters: the MN-4 drifts off-match the longer I transmit, requiring retuning.
>
> Bill, NK6Q
>

4276. Re: [DrakeRadio] Re: PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 14:29:21 UTC
From: Garey Barrell
Topic: 4265 Message: 4276

Chris -

First, are you certain it's the PTO that's dead? A failure of the Band Oscillator or the Preselector will also present as you describe.

The PTO output should be ~2 V p-p and cover from 4.955 to 5.455 MHz at 500 and 000 on the dial respectively.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Chris Farley wrote:
> While we're on this subject, any advice on a dead pto in my T4XC? Trust me, I had reason for doing it, but the whole chassis literally got "the car wash" treatment. For whatever reason, I did not remove the PTO beforehand... Unsure if it was dead before or not, but it surely is now. With external excitation, the xmtr functions perfectly- so not an IF issue. Are there any particular key components that like to "go" in these things? I don't want to poke around too much and risk making it a mini boatanchor...
>
> Regards,
> Chris kc9ieq
>
>

4277. Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 18:48:28 UTC
From: w1kilofoxtrot
Topic: 4277 Message: 4277

I've played around with a number of things, but I'm pretty well convinced the USB filter in the project TR-4C is shot. Seems to have a frequency response of 1800-2800 Hz. Makes 40M LSB and 20M USB communications out of the question.

Anyone have a parts TR-4C or alternate suggestions?

73,
Steve
W1KF

4278. Re: [DrakeRadio] Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 18:59:22 UTC
From: Don Cunningham
Topic: 4277 Message: 4278

Steve,
INRAD lists new USB and LSB filters on their site. They aren't cheap, but their filters are good!! www.inrad.net will get you to the site, then you can find the TR4 filters from there.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4279. Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 19:32:36 UTC
From: w1kilofoxtrot
Topic: 4277 Message: 4279

Don,

An interesting thought, and I may wind up going there, except I'd be spending as much on the filters as I spent on the rig.
And MS-4.
And AC-4.
Combined...

I think I'll keep looking around for a while. I still have the entire signal path to re-align, and I can do that by injecting signal as required.

Thanks for the lead!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Steve,
> INRAD lists new USB and LSB filters on their site. They aren't cheap, but their filters are good!! www.inrad.net will get you to the site, then you can find the TR4 filters from there.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4280. Re: [DrakeRadio] Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 20:48:16 UTC
From: Richard Knoppow
Topic: 4277 Message: 4280

----- Original Message -----
From: "w1kilofoxtrot" <w1kf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, September 02, 2010 12:32 PM
Subject: [DrakeRadio] Re: Seeking TR-4C upper sideband
crystal filter

> Don,
>
> An interesting thought, and I may wind up going there,
> except I'd be spending as much on the filters as I spent
> on the rig.
> And MS-4.
> And AC-4.
> Combined...
>
> I think I'll keep looking around for a while. I still
> have the entire signal path to re-align, and I can do that
> by injecting signal as required.
>
> Thanks for the lead!
>
> 73,
> Steve
> W1KF

Have you tried to measure the response of the filter
directly? It may be that there is something else causing the
problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4281. Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 21:13:10 UTC
From: w1kilofoxtrot
Topic: 4277 Message: 4281

Richard,

I have tried measuring the filter response directly, and had less than optimal results. I will give it another shot, but it does seem either that the center frequency of the filter has shifted up 1-1.5 KHz, or the lower edge of the filter has had a similar shift. I'm not aware of what external influence could do that to an 8 pole crystal filter, and I'm pretty sure it's not the local circuit values, since they are shared between the two filters, and the other one is operating as expected.

Thus my (admittedly potentially flawed) theory that the filter is shot. I'm not certain I feel comfortable opening up the filter can to examine the individual components, or what I might to to replace damaged or out of tolerance units.

I am, however, as always, open to suggestion!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "w1kilofoxtrot" <w1kf@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, September 02, 2010 12:32 PM
> Subject: [DrakeRadio] Re: Seeking TR-4C upper sideband
> crystal filter
>
>
> > Don,
> >
> > An interesting thought, and I may wind up going there,
> > except I'd be spending as much on the filters as I spent
> > on the rig.
> > And MS-4.
> > And AC-4.
> > Combined...
> >
> > I think I'll keep looking around for a while. I still
> > have the entire signal path to re-align, and I can do that
> > by injecting signal as required.
> >
> > Thanks for the lead!
> >
> > 73,

> > Steve
> > W1KF
>
> Have you tried to measure the response of the filter
> directly? It may be that there is something else causing the
> problem.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4282. Re: TR-4C Refurbishing & Cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 23:13:50 UTC
From: Dick KF4NS
Topic: 4282 Message: 4282

Frank,
Mine was a real ugly duckling when I started. I removed the tubes and sprayed the chassis with 50/50 simple green, used a paint brush on some of the tough spots, rinsed it with a hose, then let it set out in the hot sun for 3 days. Following that, I used Deoxit on all switches and tube sockets. As for the SSB indicators, I replaced both with small red LEDs (some would reject that idea) which have a lens almost the same appearance so nobody notices.

Good luck and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

==========ORIGINAL MESSAGE==========

1. TR-4C Refurbishing & Cleaning.
Posted by: "fdonnelly98" goober@... fdonnelly98
Wed Sep 1, 2010 6:38 am (PDT)

Just joined your group. Lots of good info here.
I bought a Drake TR-4C Xcvr from an SK estate. I have brought it back to life and now I want to clean it up. I have removed all tubes and PA shields & front panel. Yes, I made sure I saved the four spacers for the front panel. The top of the chassis is pretty dirty. Looks like a some pitting& corrosion on top surfaces only. Any recommendations on Proper cleaning methods. I don't want to do a complete restoration, just refurbish it.
I have used the 409 & water, & oven method on some R-390A modules with good results, but I am a little hesitant to go that route with my TR-4C. Anybody tried this, or any other suggestions.

Also Where can I find the little red plastic SSB indicator lenses.
I have one missing.
Many thanks in advance
Frank KI0RQ

4283. Re: [DrakeRadio] Re: TR-4C Refurbishing & Cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 23:41:41 UTC
From: Richard Knoppow
Topic: 4282 Message: 4283

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>;
<goober@...>
Sent: Thursday, September 02, 2010 4:13 PM
Subject: [DrakeRadio] Re: TR-4C Refurbishing & Cleaning

> Frank,
> Mine was a real ugly duckling when I started. I removed
> the tubes and
> sprayed the chassis with 50/50 simple green, used a paint
> brush on
> some of the tough spots, rinsed it with a hose, then let
> it set out in
> the hot sun for 3 days. Following that, I used Deoxit on
> all switches
> and tube sockets. As for the SSB indicators, I replaced
> both with
> small red LEDs (some would reject that idea) which have a
> lens almost
> the same appearance so nobody notices.
>
> Good luck and 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!

I will repeat here a method of cleaning we used at
Hewlett-Packard a million years ago. The equipment was first
opened up as much as possible. Meters and other water
sensitive parts were removed. The equipment was washed down
with a garden hose and warm water. Then it was spray cleaned
using a paint spray gun loaded with a diluted solution of
dishwashing detergent. After washing it was rinsed
thoroughly with the hose. Then as much water as possible was
blown out using clean compressed air. Then the chassis was
baked in an electric oven at about 130F for a minimum of 48
hours, longer if we had the time. The surfaces can be
scrubbed with brushes or sponges while washing. This process
would usually would leave the chassis looking new.
But, you need an air compressor capable of delivering
oil-free air, and a paint spray gun. You could probably do
an adequate job of drying using IR lamps instead of the
electric oven.

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

4284. Re: [DrakeRadio] Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-02 23:35:10 UTC
From: Richard Knoppow
Topic: 4277 Message: 4284

----- Original Message -----
From: "w1kilofoxtrot" <w1kf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, September 02, 2010 2:13 PM
Subject: [DrakeRadio] Re: Seeking TR-4C upper sideband
crystal filter

> Richard,
>
> I have tried measuring the filter response directly, and
> had less than optimal results. I will give it another
> shot, but it does seem either that the center frequency of
> the filter has shifted up 1-1.5 KHz, or the lower edge of
> the filter has had a similar shift. I'm not aware of what
> external influence could do that to an 8 pole crystal
> filter, and I'm pretty sure it's not the local circuit
> values, since they are shared between the two filters, and
> the other one is operating as expected.
>
> Thus my (admittedly potentially flawed) theory that the
> filter is shot. I'm not certain I feel comfortable opening
> up the filter can to examine the individual components, or
> what I might to to replace damaged or out of tolerance
> units.
>
> I am, however, as always, open to suggestion!
>
> 73,
> Steve
> W1KF

I don't have any specific suggestions, its just that the cost and difficulty of replacing the filters seems to me to justify the effort of making sure they are the problem. Lattice filters are sensitive to the terminal impedances so that may be a place to look. However, if both filters are fed from the same source and terminated the same way that's probably not the source of trouble. Lattice filters are quite sensitive to variations in their components, the more poles the more sensitive, so something could well have changed inside including failure of one of the crystals. I think its less likely that the center frequency changed than that one of the skirts moved. Good luck on this.

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

4285. Re: TR-4C Refurbishing & Cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-03 00:01:10 UTC
From: fdonnelly98
Topic: 4282 Message: 4285

Hi Dick; I bit the bullet and used the water method.
I removed all tubes, and dial cover, meter, final cage and then
I went to the drug store and bought some finger cotts. I slipped one over each transformer can and then covered the VFO real good, and bought those small green round furniture pads and stuck one to each tube socket to keep direct water out.
I then sprayed the whole thing with 409 cleaner and used the paint brush. After it soaked good I rinsed it with the hose until no suds came out, then I rinsed it with distilled water. My TR-4C had some bad pitting on the chassis. Could not get it off.
After leaving it in the sun and turning it a few times I used my hot hair dryer real good. then I cleaned the tubes (found three completely bad tubes. Heaters open. After putting it all back together I turned it back on. and "wad ya know" NO SMOKE.
I then left it on so it would warm up good just to make sure there was no water left anywhere. Now I will use Deoxit on all contacts, switches, and tube sockets. I have done this before on an R-390A.
So far all working good.
Thanks for your comments
Frank KI0RQ

--- In DrakeRadio@yahoogroups.com, "Dick KF4NS" <kf4nsradio@...> wrote:
>
> Frank,
> Mine was a real ugly duckling when I started. I removed the tubes and
> sprayed the chassis with 50/50 simple green, used a paint brush on
> some of the tough spots, rinsed it with a hose, then let it set out in
> the hot sun for 3 days. Following that, I used Deoxit on all switches
> and tube sockets. As for the SSB indicators, I replaced both with
> small red LEDs (some would reject that idea) which have a lens almost
> the same appearance so nobody notices.
>
> Good luck and 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
> ==========ORIGINAL MESSAGE==========
>
> 1. TR-4C Refurbishing & Cleaning.
> Posted by: "fdonnelly98" goober@... fdonnelly98
> Wed Sep 1, 2010 6:38 am (PDT)
>
>
> Just joined your group. Lots of good info here.
> I bought a Drake TR-4C Xcvr from an SK estate. I have brought it back
> to life and now I want to clean it up. I have removed all tubes and PA
> shields & front panel. Yes, I made sure I saved the four spacers for
> the front panel. The top of the chassis is pretty dirty. Looks like a

> some pitting& corrosion on top surfaces only. Any recommendations on
> Proper cleaning methods. I don't want to do a complete restoration,
> just refurbish it.
> I have used the 409 & water, & oven method on some R-390A modules with
> good results, but I am a little hesitant to go that route with my
> TR-4C. Anybody tried this, or any other suggestions.
>
> Also Where can I find the little red plastic SSB indicator lenses.
> I have one missing.
> Many thanks in advance
> Frank KI0RQ
>

4286. Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-03 10:20:34 UTC
From: captcurt2000
Topic: 4277 Message: 4286

I have had them open..and there isn't much you would be able to do unless there was just a bad connection.

I would:

1. be certain the input frequency is properly centered.
2. be sure the switch is clean and functioning properly
3. swap in the filter inputs and outputs either at the switch or on the filter bodies to see if the same filter remains bad in the new switch position. If the freq is centered, the switch is functioning and all other circuits are common, then if it behaves differently, it might not be bad.

Curt
KU8L

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> I've played around with a number of things, but I'm pretty well convinced the USB filter in the project TR-4C is shot. Seems to have a frequency response of 1800-2800 Hz. Makes 40M LSB and 20M USB communications out of the question.
>
> Anyone have a parts TR-4C or alternate suggestions?
>
> 73,
> Steve
> W1KF
>

4287. FS Drake UV-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-04 17:34:23 UTC
From: k2wh_bill
Topic: 4287 Message: 4287

I have one non-functional UV-3 for sale. Panel is excellent, powers up and 440 seems to receive. No action on 220 or 140. Comes with schematic manual marked up by previous owner.

Make offer off site to:

K2WH@...

THanks,
Bill

4288. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-05 21:18:33 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4288

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4289. Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-05 21:44:49 UTC
From: K4GM- George
Topic: 4289 Message: 4289

I have an "ailing" R12 in my L4-B power supply. Although functioning a portion of the outer cover has split off and I am afraid it is only a matter of time until it fails. The resistor is listed as .82 ohms at 2 watts. There is a note to "replace with IRC Type BWH resistor only". I did find a replacement at R&J Electronics but the smallest quantity is a package of 18!! Does anyone know where I might locate a good substitute? Is this something I could find at Mouser if I call. Can't seem to find online at Mouser but may not be using right search criteria.

George K4GM

4290. RE: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 12:07:34 UTC
From: Jim Chaggaris
Topic: 4289 Message: 4290

George,

Try Harbach Electronics.
http://www.harbachelectronics.com/main/page_products_drake_l4l4bl7.html

Also, I don't see why you can't substitute a metal oxide or carbon film resistor of the same rating. Maybe someone on the reflector can elaborate.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of K4GM- George
Sent: Sunday, September 05, 2010 4:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

I have an "ailing" R12 in my L4-B power supply. Although functioning a portion of the outer cover has split off and I am afraid it is only a matter of time until it fails. The resistor is listed as .82 ohms at 2 watts. There is a note to "replace with IRC Type BWH resistor only". I did find a replacement at R&J Electronics but the smallest quantity is a package of 18!! Does anyone know where I might locate a good substitute? Is this something I could find at Mouser if I call. Can't seem to find online at Mouser but may not be using right search criteria.

George K4GM

[Non-text portions of this message have been removed]

4291. RE: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 13:46:02 UTC
From: Greg Schultz Sr
Topic: 4289 Message: 4291

I purchased several from Harbach for my L7 several months ago. It's best to stay with the resistors that are designed to act as fuses - something about failure times and flames.

Greg W5RY

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Monday, September 06, 2010 7:08 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

George,

Try Harbach Electronics.
http://www.harbachelectronics.com/main/page_products_drake_l4l4bl7.html

Also, I don't see why you can't substitute a metal oxide or carbon film resistor of the same rating. Maybe someone on the reflector can elaborate.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of K4GM- George
Sent: Sunday, September 05, 2010 4:45 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

I have an "ailing" R12 in my L4-B power supply. Although functioning a portion of the outer cover has split off and I am afraid it is only a matter of time until it fails. The resistor is listed as .82 ohms at 2 watts. There is a note to "replace with IRC Type BWH resistor only". I did find a replacement at R&J Electronics but the smallest quantity is a package of 18!! Does anyone know where I might locate a good substitute? Is this something I could find at Mouser if I call. Can't seem to find online at Mouser but may not be using right search criteria.

George K4GM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4292. Re: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 14:49:36 UTC
From: Garey Barrell
Topic: 4289 Message: 4292

Jim -

The 'original' was a wirewound. It was chosen to 'disintegrate' in case
of a short circuit, as in a tube short or other nasty.

Metal oxide might work, but will probably survive long enough to become
red hot before it 'melts' or ....

Carbon film wouldn't survive the normal surge currents of operation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Chaggaris wrote:
> George,
>
>
>
> Try Harbach Electronics.
> http://www.harbachelectronics.com/main/page_products_drake_l4l4bl7.html
>
>
>
> Also, I don't see why you can't substitute a metal oxide or carbon film
> resistor of the same rating. Maybe someone on the reflector can elaborate.
>
>
>
> 73,
>
> Jim N9WW
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of K4GM- George
>
>
> I have an "ailing" R12 in my L4-B power supply. Although functioning a
> portion of the outer cover has split off and I am afraid it is only a
> matter of time until it fails. The resistor is listed as .82 ohms at 2
> watts. There is a note to "replace with IRC Type BWH resistor only". I

> did find a replacement at R&J Electronics but the smallest quantity is a
> package of 18!! Does anyone know where I might locate a good
> substitute? Is this something I could find at Mouser if I call. Can't
> seem to find online at Mouser but may not be using right search criteria.
>
> George K4GM
>
>
>

4293. Re: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 15:37:04 UTC
From: Jim Chaggaris
Topic: 4289 Message: 4293

Garey,

Thanks for the clarification. I wasn't 100% sure but wanted to ask for futue reference.

73,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241

-----Original Message-----
From: "Garey Barrell" <k4oah@...>
Sent: Monday, September 6, 2010 9:49am
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Jim -

The 'original' was a wirewound. It was chosen to 'disintegrate' in case
of a short circuit, as in a tube short or other nasty.

Metal oxide might work, but will probably survive long enough to become
red hot before it 'melts' or ....

Carbon film wouldn't survive the normal surge currents of operation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Chaggaris wrote:
> George,
>
>
>
> Try Harbach Electronics.
> http://www.harbachelectronics.com/main/page_products_drake_l4l4bl7.html

>
>
>
> Also, I don't see why you can't substitute a metal oxide or carbon film
> resistor of the same rating. Maybe someone on the reflector can elaborate.
>
>
>
> 73,
>
> Jim N9WW
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of K4GM- George
>
>
> I have an "ailing" R12 in my L4-B power supply. Although functioning a
> portion of the outer cover has split off and I am afraid it is only a
> matter of time until it fails. The resistor is listed as .82 ohms at 2
> watts. There is a note to "replace with IRC Type BWH resistor only". I
> did find a replacement at R&J Electronics but the smallest quantity is a
> package of 18!! Does anyone know where I might locate a good
> substitute? Is this something I could find at Mouser if I call. Can't
> seem to find online at Mouser but may not be using right search criteria.
>
> George K4GM
>
>
>

4294. Re: [DrakeRadio] PTO photos?.. and Introduction

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 17:15:36 UTC
From: Jim Shorney
Topic: 4265 Message: 4294

On Mon, 30 Aug 2010 23:43:56 -0400, Garey Barrell wrote:

>
>Here's a photo of a TR-7 PTO board. This is the 'safe' side!

If anyone is still interested, I just posted pics of the TR-7 PTO with the can removed to the group photo section.

http://groups.yahoo.com/group/DrakeRadio/photos

Enjoy.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4295. Re: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 22:57:25 UTC
From: LEE BAHR
Topic: 4289 Message: 4295

Mouser sells a Vishy/Dale wire wound resistor, .82 ohms @ 1 watt. The part nunber is: 71-RW81UR820F. The price is $1.23

Lee, w0vt

[Non-text portions of this message have been removed]

4296. Re: [DrakeRadio] Need replacement for .82 ohm resistor in Drake L4B power supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 02:05:02 UTC
From: K4GM- George
Topic: 4289 Message: 4296

Thanks to all who responded. I have ordered a replacement.
George K4GM

Jim Chaggaris wrote:
>
> Garey,
>
> Thanks for the clarification. I wasn't 100% sure but wanted to ask for
> futue reference.
>
> 73,
>
> Jim N9WW
>
> James Chaggaris
> PowerOne Corp./PowerOne Environmental
> 1020 Cedar Avenue
> Suite 203
> St. Charles, IL 60174
> Phn: (630) 443-6500
> Fax: (630) 443-6505
> Cell: (630) 669-2241
>
> -----Original Message-----
> From: "Garey Barrell" <k4oah@...
> <mailto:k4oah%40mindspring.com>>
> Sent: Monday, September 6, 2010 9:49am
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: Re: [DrakeRadio] Need replacement for .82 ohm resistor in
> Drake L4B power supply
>
> Jim -
>
> The 'original' was a wirewound. It was chosen to 'disintegrate' in case
> of a short circuit, as in a tube short or other nasty.
>
> Metal oxide might work, but will probably survive long enough to become
> red hot before it 'melts' or ....
>
> Carbon film wouldn't survive the normal surge currents of operation.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Jim Chaggaris wrote:
> > George,
> >
> >
> >
> > Try Harbach Electronics.
> > http://www.harbachelectronics.com/main/page_products_drake_l4l4bl7.html
> >
> >
> >
> > Also, I don't see why you can't substitute a metal oxide or carbon film
> > resistor of the same rating. Maybe someone on the reflector can
> elaborate.
> >
> >
> >
> > 73,
> >
> > Jim N9WW
> >
> >
> >
> > From: DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> > Behalf Of K4GM- George
> >
> >
> > I have an "ailing" R12 in my L4-B power supply. Although functioning a
> > portion of the outer cover has split off and I am afraid it is only a
> > matter of time until it fails. The resistor is listed as .82 ohms at 2
> > watts. There is a note to "replace with IRC Type BWH resistor only". I
> > did find a replacement at R&J Electronics but the smallest quantity is a
> > package of 18!! Does anyone know where I might locate a good
> > substitute? Is this something I could find at Mouser if I call. Can't
> > seem to find online at Mouser but may not be using right search
> criteria.
> >
> > George K4GM
> >
> >
> >
>
>

4297. Drake TR-7 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-06 23:03:14 UTC
From: DIZZYJAC
Topic: 4297 Message: 4297

Hello to all,
Don here, W9DMW in Wheaton,IL. I am looking for a RELIABLE service tech to repair my Drake TR-7. Any help would be greatly appreciated. Thanks In advance. 73's Don W9DMW

4298. Re: [DrakeRadio] Drake TR-7 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 02:16:57 UTC
From: Garey Barrell
Topic: 4297 Message: 4298

Don -

Either of these guys will do outstanding work for reasonable prices..

Jeff Covelli, WA8SAJ at
<wa8saj@...>

Gary Poland, W8PU at
<gpoland1@...>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

DIZZYJAC wrote:
> Hello to all,
> Don here, W9DMW in Wheaton,IL. I am looking for a RELIABLE service tech to repair my Drake TR-7. Any help would be greatly appreciated. Thanks In advance. 73's Don W9DMW
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

4299. Re: [DrakeRadio] Drake TR-7 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 02:55:27 UTC
From: donald wondolkowski
Topic: 4297 Message: 4299

Thank You Sir, I will email them both to see the lay of the land. TNX Don W9DMW

--- On Mon, 9/6/10, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake TR-7 Repairs
To: DrakeRadio@yahoogroups.com
Date: Monday, September 6, 2010, 9:16 PM

Don -

Either of these guys will do outstanding work for reasonable prices..

Jeff Covelli, WA8SAJ at

<wa8saj@...>

Gary Poland, W8PU at

<gpoland1@...>

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

<www.k4oah.com>

DIZZYJAC wrote:

> Hello to all,

> Don here, W9DMW in Wheaton,IL. I am looking for a RELIABLE service tech to repair my Drake TR-7. Any help would be greatly appreciated. Thanks In advance. 73's Don W9DMW

>

>

>

> ------------------------------------

>

> Yahoo! Groups Links

>

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>

[Non-text portions of this message have been removed]

4300. RE: [DrakeRadio] Drake TR-7 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 02:57:45 UTC
From: Jim Chaggaris
Topic: 4297 Message: 4300

Don,

Jeff Covelli (WA8SAJ) has worked on all my Drakes. His rates are very reasonable and turn-around time is quick.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of DIZZYJAC
Sent: Monday, September 06, 2010 6:03 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake TR-7 Repairs

Hello to all,
Don here, W9DMW in Wheaton,IL. I am looking for a RELIABLE service tech to repair my Drake TR-7. Any help would be greatly appreciated. Thanks In advance. 73's Don W9DMW

[Non-text portions of this message have been removed]

4301. RE: [DrakeRadio] Drake TR-7 Repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 14:01:35 UTC
From: donald wondolkowski
Topic: 4297 Message: 4301

Thanks Jim, We are close to each other, I live in Wheaton, IL. Again, Thanks for the info
Don W9DMW

--- On Mon, 9/6/10, Jim Chaggaris <jimc@...> wrote:

From: Jim Chaggaris <jimc@pwrone.com>
Subject: RE: [DrakeRadio] Drake TR-7 Repairs
To: DrakeRadio@yahoogroups.com
Date: Monday, September 6, 2010, 9:57 PM

Don,

Jeff Covelli (WA8SAJ) has worked on all my Drakes. His rates are very

reasonable and turn-around time is quick.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

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copying of this message is strictly prohibited. If you have received this communication in error, please notify PowerOne Corporation immediately, and delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of DIZZYJAC

Sent: Monday, September 06, 2010 6:03 PM

To: DrakeRadio@yahoogroups.com

Subject: [DrakeRadio] Drake TR-7 Repairs

Hello to all,

Don here, W9DMW in Wheaton,IL. I am looking for a RELIABLE service tech to repair my Drake TR-7. Any help would be greatly appreciated. Thanks In advance. 73's Don W9DMW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4302. Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 18:25:04 UTC
From: Brenton Crowhurst
Topic: 4302 Message: 4302

What I really mean to say, by that misleading title, is the bulb in my s-meter just went out.

Anyone know, off hand, what it takes so's I can pick something up on the way home from work?

Thanks in advance,

Brenton
VE6IE
.

_____
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[Non-text portions of this message have been removed]

4303. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 18:48:41 UTC
From: Richard Knoppow
Topic: 4302 Message: 4303

----- Original Message -----
From: "Brenton Crowhurst"
<brenton.crowhurst@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, September 07, 2010 11:25 AM
Subject: [DrakeRadio] Can someone illuminate me about the S
meter?

>
> What I really mean to say, by that misleading title, is
> the bulb in my s-meter just went out.
>
> Anyone know, off hand, what it takes so's I can pick
> something up on the way home from work?
>
> Thanks in advance,
>
> Brenton
> VE6IE
> .
Which radio?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4304. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 19:17:56 UTC
From: Garey Barrell
Topic: 4302 Message: 4304

Brenton -

Original is a #47. A 'long life' (20,000 hours ref 3,000 hours) is a #755.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> What I really mean to say, by that misleading title, is the bulb in my s-meter just went out.
>
> Anyone know, off hand, what it takes so's I can pick something up on the way home from work?
>
> Thanks in advance,
>
> Brenton
> VE6IE
>
>

4305. RE: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 21:48:57 UTC
From: Brenton Crowhurst
Topic: 4302 Message: 4305

Oh Brother! I can't believe I left that out! (shaking my head, laughing at myself)

Icom 701.

No, kidding.

It's my Drake TR 7

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Richard Knoppow [1oldlens1@...]
Sent: September 7, 2010 12:48 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

----- Original Message -----
From: "Brenton Crowhurst"
<brenton.crowhurst@...<mailto:brenton.crowhurst%40albertahealthservices.ca>>
To: <DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>>
Sent: Tuesday, September 07, 2010 11:25 AM
Subject: [DrakeRadio] Can someone illuminate me about the S
meter?

>
> What I really mean to say, by that misleading title, is
> the bulb in my s-meter just went out.
>
> Anyone know, off hand, what it takes so's I can pick
> something up on the way home from work?
>
> Thanks in advance,
>
> Brenton
> VE6IE
> .
Which radio?

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...om.com<mailto:dickburk%40ix.netcom.com>

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4306. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 22:49:56 UTC
From: Garey Barrell
Topic: 4302 Message: 4306

Uh-oh......

I just 'assumed' you were referring to the 4 Series units we have worked on....

The TR-7 uses a 14V bulb, the #1815.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Oh Brother! I can't believe I left that out! (shaking my head, laughing at myself)
>
> Icom 701.
>
> No, kidding.
>
> It's my Drake TR 7
>

4307. RE: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-08 00:51:25 UTC
From: Brenton Crowhurst
Topic: 4302 Message: 4307

Thanks Garey,

No, no 4 series yet, but with all the good things I hear about them, I'm confident that'll be my next HF addition to the shack!

#1815 it is then.

73!

Brenton

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@mindspring.com]
Sent: September 7, 2010 4:49 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

Uh-oh......

I just 'assumed' you were referring to the 4 Series units we have worked on....

The TR-7 uses a 14V bulb, the #1815.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Oh Brother! I can't believe I left that out! (shaking my head, laughing at myself)
>
> Icom 701.
>
> No, kidding.
>
> It's my Drake TR 7
>

Yahoo! Groups Links

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4308. Re: Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-08 01:33:54 UTC
From: w1kilofoxtrot
Topic: 4302 Message: 4308

Sort of off topic, but:

I checked the S meter in my new TR-4C project unit, and it is just about dead-nuts on at 6 dBm per S unit! It works -very- well!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, Brenton Crowhurst <brenton.crowhurst@...> wrote:
>
>
> What I really mean to say, by that misleading title, is the bulb in my s-meter just went out.
>
> Anyone know, off hand, what it takes so's I can pick something up on the way home from work?
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> Thanks in advance,
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> Brenton
> VE6IE
> .
>
>
>
> _____
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>
>
> [Non-text portions of this message have been removed]
>

4309. Drake UV-3 Pictures

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-07 23:31:13 UTC
From: k2wh_bill
Topic: 4309 Message: 4309

I just uploaded a group of high resolution images of the Drake UV-3 VHF/UHF transceiver. The darth of information about this rig prompted me to put them here. In the images you can see (via the side view), how the 220 and 440 modules are assembled to the back of the basic 2 meter section basically extending the lenght of the UV-3 backwards.

Believe it or not, I salvaged this UV-3 from the scrap bin. Someone tossed it in the garbage. The 440 receiver works, volume, squelch work, but 220 and 144 no action. I have not tried to transmit with it. Obviously it needs some work but the inside (I removed the cover for the picture) is immaculate. So, I guess I'll hang onto it and sometime in the future get into testing it thoroughly.

Enjoy the images. They may be the best ones out there.

Bill
K2WH

4310. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-08 13:34:22 UTC
From: Garey Barrell
Topic: 4302 Message: 4310

Brenton -

I probably should clarify my earlier post re. the S-Meter lamp.

The 'official' bulb for the TR-7 is the #53, which is a round, bayonet based lamp.

I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
and easier to read.

The #1815 runs a little hotter, and you need to be careful to place it well away from the meter.
You do NOT want to use the #1815 for the PTO, as it ends up too close to the dial... Not good.

The 'other' advantage is that the #1815 is rated for three times the life of the #53.

All that said, the #53 is probably easier to find locally.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Oh Brother! I can't believe I left that out! (shaking my head, laughing at myself)
>
> Icom 701.
>
> No, kidding.
>
> It's my Drake TR 7
>

4311. RE: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-08 15:41:48 UTC
From: Brenton Crowhurst
Topic: 4302 Message: 4311

Hi Garey,

Thanks for this follow up. I tried Radio Shock, and came up empty, so it's off to my favorite electronics supply hut across town today for a travelling lunch.

I like your suggestion to go with the brighter bulb, though with caution about its deployment. If I can get both bulbs, I'll do that, in the event that the 1815 gives me reason to worry once I get my fingers in the rig.

Boy, you really dont' realize how dependent you are on that S meter until you can't read it!

Thanks "Gaz".

73

Brenton Crowhurst, PhD, RPsych
Psychologist
Rockyview General Hospital
Calgary, AB

From: DrakeRadio@yahoogroups.com [DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell [k4oah@...]
Sent: September 8, 2010 7:34 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

Brenton -

I probably should clarify my earlier post re. the S-Meter lamp.

The 'official' bulb for the TR-7 is the #53, which is a round, bayonet based lamp.

I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
and easier to read.

The #1815 runs a little hotter, and you need to be careful to place it well away from the meter.
You do NOT want to use the #1815 for the PTO, as it ends up too close to the dial... Not good.

The 'other' advantage is that the #1815 is rated for three times the life of the #53.

All that said, the #53 is probably easier to find locally.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Brenton Crowhurst wrote:
> Oh Brother! I can't believe I left that out! (shaking my head, laughing at myself)
>
> Icom 701.
>
> No, kidding.
>
> It's my Drake TR 7
>

Yahoo! Groups Links

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4312. Drake T-4XB acc crystal socket use question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-09 12:12:37 UTC
From: w4mjr
Topic: 4312 Message: 4312

I have a question for Drake T-4XB owners. My transmitter has been in use daily for about a year now and works great on all bands. I have just bought crystals for the acc socket position. 160, 17, 12 and 10 meters. My new bands all work fine except 160 meters. Only 2 watts there. All knob settings are in correct position and I can even tune enough to monitor my signal and spot. This might be the first time the T-4XB has ever had crystals in the in the acc socket. Could there be a internal adjustment before use for 160 meters that I am not aware of.
Thanks,
Mike W4MJR

4313. Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-09 17:35:03 UTC
From: Don Cunningham
Topic: 4313 Message: 4313

Anyone on the list have a manual for the Theta 9000 Drake (Tono) Rtty unit?? I have a nice one, but no manual. Original or copy is fine.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4314. Re: [DrakeRadio] Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-09 19:23:44 UTC
From: David Rogers
Topic: 4313 Message: 4314

I think you will find what you need here:

http://www.textandgraphics.eu/subdomain/tono/theta_library.html

David, WA7ZYQ

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Thursday, September 09, 2010 10:35 AM
Subject: [DrakeRadio] Manual

Anyone on the list have a manual for the Theta 9000 Drake (Tono) Rtty unit?? I have a nice one, but no manual. Original or copy is fine.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4315. Re: [DrakeRadio] Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-09 19:26:10 UTC
From: k2wh@optonline.net
Topic: 4313 Message: 4315

Does anyone have a service manual PDF format for the UV-3? I have a bunch of board level schematics, parts pictorial and owners manual, but not a service manual for troubleshooting and tuning up. Does a service manual even exist for this radio?

Bill
K2WH

----- Original Message -----
From: David Rogers
Date: Thursday, September 9, 2010 3:24 pm
Subject: Re: [DrakeRadio] Manual
To: DrakeRadio@yahoogroups.com

> I think you will find what you need here:
>
> http://www.textandgraphics.eu/subdomain/tono/theta_library.html
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: Don Cunningham
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, September 09, 2010 10:35 AM
> Subject: [DrakeRadio] Manual
>
>
>
> Anyone on the list have a manual for the Theta 9000 Drake
> (Tono) Rtty unit?? I have a nice one, but no manual. Original or
> copy is fine.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

4316. Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-09 21:40:41 UTC
From: Don Cunningham
Topic: 4313 Message: 4316

Manual needs are satisfied. Thanks to all.
73,
Don

[Non-text portions of this message have been removed]

4317. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 02:43:18 UTC
From: Jim Shorney
Topic: 4302 Message: 4317

On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:

>
>I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
>and easier to read.

Blue LEDs make the meter a LOT brighter. :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4318. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 03:12:17 UTC
From: Garey Barrell
Topic: 4302 Message: 4318

Jim Shorney wrote:
> On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:
>
>
>> I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
>> and easier to read.
>>
>
> Blue LEDs make the meter a LOT brighter. :)
>

Yuk..... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

4319. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 04:37:58 UTC
From: Jim Shorney
Topic: 4302 Message: 4319

On Thu, 09 Sep 2010 23:12:17 -0400, Garey Barrell wrote:

>> Blue LEDs make the meter a LOT brighter. :)
>>
>
>Yuk..... :-)

No, PRETTY! ;D

http://radiojim.exofire.net/pages/blue.html

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4320. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2006-07-07 07:45:55 UTC
From: Les Zwiebel WB6ORZ
Topic: 4302 Message: 4320

I must have missed something. Please...what rig does this refer too? Thanks in advance.
(((((73)))))
Les
---===WB6ORZ===---

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Thursday, September 09, 2010 8:12 PM
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

Jim Shorney wrote:
> On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:
>
>
>> I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
>> and easier to read.
>>
>
> Blue LEDs make the meter a LOT brighter. :)
>

Yuk..... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

[Non-text portions of this message have been removed]

4321. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 15:49:42 UTC
From: Don Cunningham
Topic: 4302 Message: 4321

TR7 or R7 Les. Garey prefers the tubular lamp to the one Drake used, so that may be why you don't recognize the number.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4322. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 16:22:51 UTC
From: Les Zwiebel
Topic: 4302 Message: 4322

Great. That's useful info, Don. Tnx es (((73))).
Regards,
Les

-----Original Message-----
From: "Don Cunningham" <donc@...>
Sender: DrakeRadio@yahoogroups.com
Date: Fri, 10 Sep 2010 10:49:42
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

TR7 or R7 Les. Garey prefers the tubular lamp to the one Drake used, so that may be why you don't recognize the number.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4323. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 18:55:55 UTC
From: Garey Barrell
Topic: 4302 Message: 4323

Les -

Well we started out talking about bulbs for the TR-7 S-Meter. I first mentioned the #47 because I thought we were talking about the 4 Series, and it went downhill from there! :-)

Once it was determined that the initial query was about the TR-7, I suggested the #1815 because that's what I use. It's brighter than the original #53, but you have to be careful because it's also hotter.

I later clarified that the original was the #53, and that's when Jim piped up with the "LEDs are brighter and better" line, or something to that effect, to which I replied "Yuk!" :-)

While it's true that the LEDs ARE brighter and better, this ol' Luddite has been looking at that pretty "Lee Lighting #172 film with #755 bulb" for too long.!! (1965) Anything else just "ain't Drake". I just threw in another number there, the #755 is a bulb like the #47 that has about 6+ times the life expectancy of the #47. I've been using them since about 1970, and haven't had to replace one yet! (20,000 hours, as opposed to 3,000 for the #47)

So as is usually the case around here, much "... sound and fury, signifying nothing"! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Les Zwiebel WB6ORZ wrote:
> I must have missed something. Please...what rig does this refer too? Thanks in advance.
> (((((73)))))
> Les
> ---===WB6ORZ===---
>
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, September 09, 2010 8:12 PM
> Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?
>
>
>
>

> Jim Shorney wrote:
> > On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:
> >
> >
> >> I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
> >> and easier to read.
> >>
> >
> > Blue LEDs make the meter a LOT brighter. :)
> >
>
> Yuk..... :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

4324. RE: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 19:01:43 UTC
From: Brenton Crowhurst
Topic: 4302 Message: 4324

Or, much light illuminating nothing?

But seriously, you guys were illuminating as you were amusing, and I got my bulb information and then some!

73,

Brenton VE6IE

much "... sound and fury,
signifying nothing"! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Les Zwiebel WB6ORZ wrote:
> I must have missed something. Please...what rig does this refer too? Thanks in advance.
> (((((73)))))
> Les
> ---===WB6ORZ===---
>
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com<mailto:DrakeRadio%40yahoogroups.com>
> Sent: Thursday, September 09, 2010 8:12 PM
> Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?
>
>
>
>
> Jim Shorney wrote:
> > On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:
> >
> >
> >> I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a little brighter
> >> and easier to read.
> >>
> >
> > Blue LEDs make the meter a LOT brighter. :)
> >
>
> Yuk..... :-)

>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

_____
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[Non-text portions of this message have been removed]

4325. Re: [DrakeRadio] Drake T-4XB acc crystal socket use question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 19:28:41 UTC
From: Garey Barrell
Topic: 4312 Message: 4325

Mike -

The 160M band is at the VERY BOTTOM of the range of the circuits in the T-4XB. First off, it will NOT go below 1.8 MHz, or at least not very far. So if you are tuning up on say 40M at 7.050 MHz and switch to 160M you'll be at 1.550 MHz and zilch!

First, if you haven't already, crank the PTO up to 300 or better and try again. If still low power, you may need to adjust the trim caps on the side of the chassis for the 1.8 - 3.0 MHz band. Note here that they do SAY "1.8 - 3.0 MHz! If you do, be SURE to use an insulated alignment tool. For your protection, the trimmers have +250 VDC on them, _AND_ if you short one to the chassis, even momentarily, you will damage a resistor in the transmitter.

If this doesn't resolve your problem, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w4mjr wrote:
> I have a question for Drake T-4XB owners. My transmitter has been in use daily for about a year now and works great on all bands. I have just bought crystals for the acc socket position. 160, 17, 12 and 10 meters. My new bands all work fine except 160 meters. Only 2 watts there. All knob settings are in correct position and I can even tune enough to monitor my signal and spot. This might be the first time the T-4XB has ever had crystals in the in the acc socket. Could there be a internal adjustment before use for 160 meters that I am not aware of.
> Thanks,
> Mike W4MJR
>
>

4326. Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 20:27:24 UTC
From: Don Cunningham
Topic: 4326 Message: 4326

Anyone on here have a TR7/R7 transceive cable that they bought and no longer need?? I know where the new ones are, and will buy one there if there are none here. Just trying to help someone "stuck" with one, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4327. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 21:09:08 UTC
From: Les Zwiebel
Topic: 4302 Message: 4327

Great and clear and informative reply, Gary. Judges here all vote 10. Tnx.
Regards,
Les

-----Original Message-----
From: Garey Barrell <k4oah@...>
Sender: DrakeRadio@yahoogroups.com
Date: Fri, 10 Sep 2010 14:55:55
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?

Les -

Well we started out talking about bulbs for the TR-7 S-Meter. I first mentioned the #47 because I thought we were talking about the 4 Series, and it went downhill from there! :-)

Once it was determined that the initial query was about the TR-7, I suggested the #1815 because that's what I use. It's brighter than the original #53, but you have to be careful because it's also hotter.

I later clarified that the original was the #53, and that's when Jim piped up with the "LEDs are brighter and better" line, or something to that effect, to which I replied "Yuk!" :-)

While it's true that the LEDs ARE brighter and better, this ol' Luddite has been looking at that pretty "Lee Lighting #172 film with #755 bulb" for too long.!! (1965) Anything else just "ain't Drake". I just threw in another number there, the #755 is a bulb like the #47 that has about 6+ times the life expectancy of the #47. I've been using them since about 1970, and haven't had to replace one yet! (20,000 hours, as opposed to 3,000 for the #47)

So as is usually the case around here, much "... sound and fury, signifying nothing"! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Les Zwiebel WB6ORZ wrote:
> I must have missed something. Please...what rig does this refer too? Thanks in advance.
> (((((73)))))
> Les

> ---===WB6ORZ===---
>
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, September 09, 2010 8:12 PM
> Subject: Re: [DrakeRadio] Can someone illuminate me about the S meter?
>
>
>
>
> Jim Shorney wrote:
> > On Wed, 08 Sep 2010 09:34:22 -0400, Garey Barrell wrote:
> >
> >
> >> I like the #1815, a tubular, bayonet base, for the S-Meter as it makes the meter a
little brighter
> >> and easier to read.
> >>
> >
> > Blue LEDs make the meter a LOT brighter. :)
> >
>
> Yuk..... :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>

[Non-text portions of this message have been removed]

4328. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-10 22:58:04 UTC
From: Richard Knoppow
Topic: 4302 Message: 4328

```
----- Original Message -----
From: "Les Zwiebel" <wb6orz@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, September 10, 2010 2:09 PM
Subject: Re: [DrakeRadio] Can someone illuminate me about
the S meter?

> Great and clear and informative reply, Gary. Judges here
> all vote 10. Tnx.
> Regards,
> Les

We can now call this "The House of Blue Lights".

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

4329. Re: [DrakeRadio] Can someone illuminate me about the S meter?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-11 01:21:37 UTC
From: Jim Shorney
Topic: 4302 Message: 4329

On Fri, 10 Sep 2010 14:55:55 -0400, Garey Barrell wrote:

>While it's true that the LEDs ARE brighter and better, this ol' Luddite
>has been looking at that pretty "Lee Lighting #172 film with #755 bulb"
>for too long.!! (1965) Anything else just "ain't Drake".

Actually, I agree with Gary WRT the 4-line and other older gear. But there is something about the monchromatic "ice blue" look of the LEDs that just seems to click with the more modern styling of the 7-line IMO.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4330. Re: [DrakeRadio] Drake T-4XB acc crystal socket use question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-11 02:01:17 UTC
From: Mike
Topic: 4312 Message: 4330

Many thanks Gary for the info about the trim caps. All looks good on 160 meters now. Had to turn all four just a little very slow with my insulated screwdriver. I'm good to go now. Thanks agn and have a good week end.
Mike W4MJR

--- On Fri, 9/10/10, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Drake T-4XB acc crystal socket use question
To: DrakeRadio@yahoogroups.com
Date: Friday, September 10, 2010, 2:28 PM

Mike -

The 160M band is at the VERY BOTTOM of the range of the circuits in the T-4XB. First off, it will NOT go below 1.8 MHz, or at least not very far. So if you are tuning up on say 40M at 7.050 MHz and switch to 160M you'll be at 1.550 MHz and zilch!

First, if you haven't already, crank the PTO up to 300 or better and try again. If still low power, you may need to adjust the trim caps on the side of the chassis for the 1.8 - 3.0 MHz band. Note here that they do SAY "1.8 - 3.0 MHz! If you do, be SURE to use an insulated alignment tool. For your protection, the trimmers have +250 VDC on them, _AND_ if you short one to the chassis, even momentarily, you will damage a resistor in the transmitter.

If this doesn't resolve your problem, let us know!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

w4mjr wrote:
> I have a question for Drake T-4XB owners. My transmitter has been in use daily for about a year now and works great on all bands. I have just bought crystals for the acc socket position. 160, 17, 12 and 10 meters. My new bands all work fine except 160 meters. Only 2 watts there. All knob settings are in correct position and I can even tune enough to monitor my signal and spot. This might be the first time the T-4XB has ever had crystals in the in the acc socket. Could there be a internal adjustment before use for 160 meters that I am not aware of.
> Thanks,
> Mike W4MJR
>
>

[Non-text portions of this message have been removed]

4331. L-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 14:17:57 UTC
From: n9pgo@att.net
Topic: 4331 Message: 4331

Hi All...

I am in need of a good condition fan wheel for my L-4B.

Or a source for a replacement.

I would like to keep the amp in original condition.

Other than the fan - mine is almost perfect.

Thanks es 73,

n9pgo - Sandy

4332. Frequency Counter for DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 15:37:57 UTC
From: Hans-Joachim Empel
Topic: 4332 Message: 4332

Hello to the Group ,
i have for my SPR-4 a Frequency - Counter (Homebrewed).

I will be use an amplifier to give more signalstrenght for the frequency - counter.

I am looking for a good place inside the SPR - 4 to pick up the signal for the counter.

If somebody knows a good point to pick up the signal for the freq. - counter please let me know.

Kind regards from Germany

Joachim

DL2388RB (Member of the ARRL)

[Non-text portions of this message have been removed]

4333. MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 16:28:44 UTC
From: qrpcwop
Topic: 4333 Message: 4333

Has anyone successfully installed the Collins speaker from Surplus Sales into an MS-4 housing?

I've heard/read that it should work, but I'd really like to verify before spending the money. I already have a 5x7 speaker that doesn't fit, so I really don't need another.

73 - Al, K2ZN

4334. Re: [DrakeRadio] MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 16:38:28 UTC
From: gil Kellersman Jr
Topic: 4333 Message: 4334

Yes I did it about 4 years ago and greatly improves the sound quality, easy to install, Gil

--- On Sun, 9/12/10, qrpcwop <k2zn@...> wrote:

From: qrpcwop <k2zn@...>
Subject: [DrakeRadio] MS-4 Replacement
To: DrakeRadio@yahoogroups.com
Date: Sunday, September 12, 2010, 12:28 PM

Has anyone successfully installed the Collins speaker from Surplus Sales into an MS-4 housing?

I've heard/read that it should work, but I'd really like to verify before spending the money. I already have a 5x7 speaker that doesn't fit, so I really don't need another.

73 - Al, K2ZN

[Non-text portions of this message have been removed]

4335. Re: [DrakeRadio] Frequency Counter for DRAKE SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 16:54:23 UTC
From: Garey Barrell
Topic: 4332 Message: 4335

Joachim -

You need to pick up the Premixer signal, and then subtract 5.645 MHz
from that. Your counter has to be able to have a programmed 'offset'
capability to do this.

The pick-off points for the TA-4, which provides an 'INJection' jack to
allow transceive operation with the T-4X(any) transmitters, would be the
best place to find where to connect.

I've attached information on the TA-4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> Hello to the Group ,
> i have for my SPR-4 a Frequency - Counter (Homebrewed).
>
> I will be use an amplifier to give more signalstrenght for the frequency - counter.
>
> I am looking for a good place inside the SPR - 4 to pick up the signal for the counter.
>
> If somebody knows a good point to pick up the signal for the freq. - counter please let
me know.
>
> Kind regards from Germany
>
> Joachim
>
> DL2388RB (Member of the ARRL)
>
>

[Non-text portions of this message have been removed]

4336. Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-12 23:27:56 UTC
From: arsnf7z
Topic: 4333 Message: 4336

Al,

if you buy that particular speaker, could you please report back how well it fit, and sounds?

thanks,

NF7Z, daniel

4337. Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-13 16:26:35 UTC
From: qrpcwop
Topic: 4333 Message: 4337

Thanks, Gil

I'll get one ordered today. Once I get it installed, I'll provide results for those who are interested.

Al

4339. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-13 17:35:53 UTC
From: gil Kellersman Jr
Topic: 4333 Message: 4339

It is a great sounding speaker and made by the same manufacturer that made them originally for Collins, good luck, Gil

--- On Mon, 9/13/10, qrpcwop <k2zn@...> wrote:

From: qrpcwop <k2zn@...>
Subject: [DrakeRadio] Re: MS-4 Replacement
To: DrakeRadio@yahoogroups.com
Date: Monday, September 13, 2010, 12:26 PM

Thanks, Gil

I'll get one ordered today. Once I get it installed, I'll provide results for those who are interested.

Al

[Non-text portions of this message have been removed]

4340. Chassis mount capacitor trimmers on TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-14 12:54:43 UTC
From: w1kilofoxtrot
Topic: 4340 Message: 4340

I've found that the previous owner evidently soaked the TR-4C in some kind of solvent. All of the switch decks were soaked, but are now clean, dry-er and working.
But the carrier frequency cap, C130; and the calibrator trim cap, C45, have nowhere near the adjustment range I think they should. I've seen some discussions about dismantling them, and cleaning them up, but I wonder if anyone here has actually done so?
Frankly, I'm worried about keeping tabs on the little retaining clip, and I've not seen many of these components available through the usual channels.
Any thoughts, words of wisdom, etc?

73,
Steve
W1KF

4341. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-14 21:06:04 UTC
From: Garey Barrell
Topic: 993 Message: 4341

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C
Lines and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

4342. FS: *NEW* Unique Drake Service Supplement CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-14 21:06:46 UTC
From: Garey Barrell
Topic: 4342 Message: 4342

I've had several inquiries regarding a CD for the 2-C / 2-NT pair. The CD is now available for $25
to US addresses!

Here is the information that Drake left out of their manuals!

Unique supplemental service information CD available for the Drake 2-C and 2-NT

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs.

Of course the rest of the CDs are still available, the 2-B, B-Line, C-Line, TR-4 and TR-4C/Cw/CwRIT.
Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

4343. Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-16 01:40:08 UTC
From: jim_n9ww
Topic: 4333 Message: 4343

All,

My MS4 speaker on my B-Line has been sounding very tinny over the past year and I needed to turn up the AF gain to around 2 o'clock to get a reasonable listening level. I decided to order one of the replacement's from Surplus Sales and just installed it tonight. I must say the difference is significant (at least to my ears).

Also, The new speaker is much heavier and also has a bigger magnet compared to the stock speaker (10 O'clock setting gives me a decent listening level now).

The hardest part about the installation was removing the old speaker. The screws and nuts that secure the speaker to the front grill were a pain to get off. The compound that Drake used to keep the nuts locked down must have been the predecessor to Locktite Red.

73,
Jim N9WW

--- In DrakeRadio@yahoogroups.com, "arsnf7z" <ars.nf7z@...> wrote:
>
> Al,
>
> if you buy that particular speaker, could you please report back how well it fit, and sounds?
>
> thanks,
>
> NF7Z, daniel
>

4344. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-16 02:20:48 UTC
From: Richard Knoppow
Topic: 4333 Message: 4344

----- Original Message -----
From: "jim_n9ww" <jimc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, September 15, 2010 6:40 PM
Subject: [DrakeRadio] Re: MS-4 Replacement

> All,
>
> My MS4 speaker on my B-Line has been sounding very tinny
> over the past year and I needed to turn up the AF gain to
> around 2 o'clock to get a reasonable listening level. I
> decided to order one of the replacement's from Surplus
> Sales and just installed it tonight. I must say the
> difference is significant (at least to my ears).
>
> Also, The new speaker is much heavier and also has a
> bigger magnet compared to the stock speaker (10 O'clock
> setting gives me a decent listening level now).
>
> The hardest part about the installation was removing the
> old speaker. The screws and nuts that secure the speaker
> to the front grill were a pain to get off. The compound
> that Drake used to keep the nuts locked down must have
> been the predecessor to Locktite Red.
>
> 73,
> Jim N9WW

Well, its too late now but in the future sometimes you
can loosen up the lacquer by heating with the tip of a
soldering iron.
"Tinny" sounds like perhaps a rubbing voice coil. While
this sometimes results in a scratchy sound if its warped
enough to be wedged in the gap it may not be able to move
enough. You can tell by pushing on the cone gently with your
finger or put a single flashlight battery across the voice
coil, it should move the cone in or out quite visibly. If
its rubbing this will show it up. Rubbing can also be caused
by particles stuck in the gap. Sometimes you can get them
out by sliding waxed paper around in the gap. Magnetic
particles can sometimes be removed with Scotch tape but its
hard to keep it from sticking to the pole piece or voice
coil, and, its usually not possible to get into the outside
of the gap.
Magnet weight does not always mean a more powerful

magnet, it depends on the material its made of. Small sized Alnico 5 magnets will, for instance, have a higher gap flux density than a much larger ceramic magnet.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4345. RE: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-16 02:29:03 UTC
From: Jim Chaggaris
Topic: 4333 Message: 4345

Richard,

"Well, it's too late now but in the future sometimes you
can loosen up the lacquer by heating with the tip of a
soldering iron."

I tried that but with not much luck. A little more torque helped. :-)

The overall speaker seems to be well made and all I can say is that it's
made a big difference.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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delete the original message.

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
Behalf Of Richard Knoppow
Sent: Wednesday, September 15, 2010 9:21 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

----- Original Message -----
From: "jim_n9ww" <jimc@... <mailto:jimc%40pwrone.com> >
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Sent: Wednesday, September 15, 2010 6:40 PM
Subject: [DrakeRadio] Re: MS-4 Replacement

> All,
>
> My MS4 speaker on my B-Line has been sounding very tinny
> over the past year and I needed to turn up the AF gain to
> around 2 o'clock to get a reasonable listening level. I
> decided to order one of the replacement's from Surplus
> Sales and just installed it tonight. I must say the
> difference is significant (at least to my ears).
>
> Also, The new speaker is much heavier and also has a
> bigger magnet compared to the stock speaker (10 O'clock
> setting gives me a decent listening level now).
>
> The hardest part about the installation was removing the
> old speaker. The screws and nuts that secure the speaker
> to the front grill were a pain to get off. The compound
> that Drake used to keep the nuts locked down must have
> been the predecessor to Locktite Red.
>
> 73,
> Jim N9WW

Well, its too late now but in the future sometimes you
can loosen up the lacquer by heating with the tip of a
soldering iron.
"Tinny" sounds like perhaps a rubbing voice coil. While
this sometimes results in a scratchy sound if its warped
enough to be wedged in the gap it may not be able to move
enough. You can tell by pushing on the cone gently with your
finger or put a single flashlight battery across the voice
coil, it should move the cone in or out quite visibly. If
its rubbing this will show it up. Rubbing can also be caused
by particles stuck in the gap. Sometimes you can get them
out by sliding waxed paper around in the gap. Magnetic
particles can sometimes be removed with Scotch tape but its
hard to keep it from sticking to the pole piece or voice
coil, and, its usually not possible to get into the outside
of the gap.
Magnet weight does not always mean a more powerful
magnet, it depends on the material its made of. Small sized
Alnico 5 magnets will, for instance, have a higher gap flux
density than a much larger ceramic magnet.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@... <mailto:dickburk%40ix.netcom.com>

[Non-text portions of this message have been removed]

4346. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-16 02:11:41 UTC
From: Charles Ring
Topic: 4333 Message: 4346

Just where can I find this replacement speaker?

73 de W3NU

On 9/15/2010 21:40, jim_n9ww wrote:
>
> All,
>
> My MS4 speaker on my B-Line has been sounding very tinny over the past
> year and I needed to turn up the AF gain to around 2 o'clock to get a
> reasonable listening level. I decided to order one of the
> replacement's from Surplus Sales and just installed it tonight. I must
> say the difference is significant (at least to my ears).
>
> Also, The new speaker is much heavier and also has a bigger magnet
> compared to the stock speaker (10 O'clock setting gives me a decent
> listening level now).
>
> The hardest part about the installation was removing the old speaker.
> The screws and nuts that secure the speaker to the front grill were a
> pain to get off. The compound that Drake used to keep the nuts locked
> down must have been the predecessor to Locktite Red.
>
> 73,
> Jim N9WW
>
>

[Non-text portions of this message have been removed]

4347. RE: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-16 02:36:55 UTC
From: Jim Chaggaris
Topic: 4333 Message: 4347

http://www.surplussales.com/Microphones-Audio/MicroAudio-8.html

Best Regards,

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Charles Ring
Sent: Wednesday, September 15, 2010 9:12 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

Just where can I find this replacement speaker?

73 de W3NU

On 9/15/2010 21:40, jim_n9ww wrote:
>
> All,
>
> My MS4 speaker on my B-Line has been sounding very tinny over the past
> year and I needed to turn up the AF gain to around 2 o'clock to get a

> reasonable listening level. I decided to order one of the
> replacement's from Surplus Sales and just installed it tonight. I must
> say the difference is significant (at least to my ears).
>
> Also, The new speaker is much heavier and also has a bigger magnet
> compared to the stock speaker (10 O'clock setting gives me a decent
> listening level now).
>
> The hardest part about the installation was removing the old speaker.
> The screws and nuts that secure the speaker to the front grill were a
> pain to get off. The compound that Drake used to keep the nuts locked
> down must have been the predecessor to Locktite Red.
>
> 73,
> Jim N9WW
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4348. R-4B alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-18 15:03:20 UTC
From: bpierfel
Topic: 4348 Message: 4348

In the R-4B alignment steps are one for the 50 kHz oscillator mentioning use of TP-3 on the calibrator board. I can't find a TP-3 on the board or the schematic. Anyone know the location of this rascal?
tnx
BOb KB8TL

4349. Re: [DrakeRadio] R-4B alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-18 15:25:06 UTC
From: Garey Barrell
Topic: 4348 Message: 4349

Bob -

TP-3 is at the bottom edge of the board, but there is a jumper wire from the test point to a pad near the top edge of the board.

There is a drawing of the board on page 24 of the manual showing the test point and 'Point A' with the jumper as a black, straight line between them. IF you have flea clip or other small clip lead, you can access the point on the IC lead that is one lead down towards the center of the board from the top lead. The IC pins on either side are ground, so be careful that you don't short to them.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

bpierfel wrote:
> In the R-4B alignment steps are one for the 50 kHz oscillator mentioning use of TP-3 on the calibrator board. I can't find a TP-3 on the board or the schematic. Anyone know the location of this rascal?
> tnx
> BOb KB8TL
>
>

4350. Re: R-4B alignment question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-18 18:55:45 UTC
From: bpierfel
Topic: 4348 Message: 4350

Garey,
Ah-hah, thanks.
I did the step 6.4.2, thanks to your help. I ended up touching it up with an accurate frequency counter after looking over the circuit. Just held a scope probe insulated tip near the T11 wiring and adjusted T11. I guess using a freq counter was not an easy option in 1968.
I picked up a cheap somewhat abused t-4xb, I might have to buy one of your CDs to get me through that one.
73
Bob

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bob -
>
> TP-3 is at the bottom edge of the board, but there is a jumper wire from
> the test point to a pad near the top edge of the board.
>
> There is a drawing of the board on page 24 of the manual showing the
> test point and 'Point A' with the jumper as a black, straight line
> between them. IF you have flea clip or other small clip lead, you can
> access the point on the IC lead that is one lead down towards the center
> of the board from the top lead. The IC pins on either side are ground,
> so be careful that you don't short to them.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> bpierfel wrote:
> > In the R-4B alignment steps are one for the 50 kHz oscillator mentioning use of TP-3 on the calibrator board. I can't find a TP-3 on the board or the schematic. Anyone know the location of this rascal?
> > tnx
> > BOb KB8TL
> >
> >
>

4351. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-19 22:35:01 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4351

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4352. Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-20 16:21:22 UTC
From: qrpcwop
Topic: 4333 Message: 4352

Update:

The speaker, a first-rate Misco component, arrived on Friday, I popped it in on Saturday. My R8 and TR-7 sound absolutely magnificent.

Actually, the speaker in the cabinet wasn't original - it was the no-longer-available Radio Shack unit. Nonetheless, it was well worth the expenditure.

Al, K2ZN

4353. Drake 34PNB noise blanker alternative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-21 14:53:18 UTC
From: billykatzz
Topic: 4353 Message: 4353

When you can find them (RadioMart has an auction on Ebay currently) those 34PNB noise blankers are pretty darn pricey.

Does anyone have personal experience either homebrewing a version of the unit or jury-rigging an alternative? I keep looking at the knob on the lower right of my TR-4Cw and thinking that I may be missing something.

Bill in Pasadena, NK6Q

4354. RE: [DrakeRadio] Drake 34PNB noise blanker alternative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-21 15:38:25 UTC
From: Steve Finch
Topic: 4353 Message: 4354

The Tr-4Cw was offered as a mobile rig. The noise blanker was (marginally) useful there as vehicles were very noisy - ignition. For home use, the blanker was very rarely used. Today with electronic ignitions, the spark noise is essentially gone and there are no points/distributor where a lot of noise was generated.

Steve Finch, AIØW
Bailey, CO
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of billykatzz
Sent: Tuesday, September 21, 2010 8:53 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake 34PNB noise blanker alternative

When you can find them (RadioMart has an auction on Ebay currently) those 34PNB noise blankers are pretty darn pricey.

Does anyone have personal experience either homebrewing a version of the unit or jury-rigging an alternative? I keep looking at the knob on the lower right of my TR-4Cw and thinking that I may be missing something.

Bill in Pasadena, NK6Q

[Non-text portions of this message have been removed]

4355. Re: [DrakeRadio] Drake 34PNB noise blanker alternative

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-21 21:56:45 UTC
From: Paul Pollock
Topic: 4353 Message: 4355

Hi Steve AI0W,

I have found, from personal experience, some very interesting data. I run a Yaesu mobile in my 99 Chevy Blazer, and it is known to be relatively clean, with hi-performance shielded spark wires and a new alternator to kill whine. Car has good grounds thru-out.
However, while there never is ignition noise or whine on the car stereo, the noise blanker in the Yaesu-857d is squashing an S-8 ignition level. That is normal, even on new cars (they vary some, but the ignition noise is present in virtually all cars). I've owned used, and I've owned new, and all have had some ignition noise (varying from S-5 to 10-over).

As for the blanker in my TR-4, it has proved useful at times. I very often, in my local, get significant racket on 80 and 40; and I can often take a S-5 down to a S-2 using my noise blanker. Noise on the higher bands is usually lower, and the blanker is less necessary, but I would not own a radio that had no Blanker. I'm very glad my Drake has one.
As an aside, before I put my TR-4 on the air (after purchase some months ago), I sent the radio to Jeff Covelli, and he refurbished the radio, and aligned it. The noise blanker also needed attention as it too was out of alignment. He says it is a good blanker, when it is working right and aligned per the manual.

Have fun and good luck!

-Paul Pollock
KD7BWB

On Sep 21, 2010, at 8:38 AM, Steve Finch wrote:

> The Tr-4Cw was offered as a mobile rig. The noise blanker was (marginally)
> useful there as vehicles were very noisy - ignition. For home use, the
> blanker was very rarely used. Today with electronic ignitions, the spark
> noise is essentially gone and there are no points/distributor where a lot of
> noise was generated.
>
> Steve Finch, AI?W
> Bailey, CO
> ai0w@...
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of billykatzz
> Sent: Tuesday, September 21, 2010 8:53 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Drake 34PNB noise blanker alternative
>
> When you can find them (RadioMart has an auction on Ebay currently) those
> 34PNB noise blankers are pretty darn pricey.
>
> Does anyone have personal experience either homebrewing a version of the

> unit or jury-rigging an alternative? I keep looking at the knob on the lower
> right of my TR-4Cw and thinking that I may be missing something.
>
> Bill in Pasadena, NK6Q
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

4356. Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-22 21:24:55 UTC
From: w1kilofoxtrot
Topic: 4277 Message: 4356

Finally got back to this. Decided to short out the filters, and things are working much better. There was very little coupling in the 'X' filter, so could not get any output from the rig until I shorted it out. Dummy load is nice and warm, now! Receive is not bad either, but of course I need the filter to knock out the opposite sideband, so this is a test-only proposition.

It does mean I need a new filter, though. Anyone parting out a TR-4 rig? Or, should I simply use some KVG filters, available from a vendor in Israel? I think the KVG are 8 pole, high quality units, but I'd have to fabricate a new bracket for them. I'd rather keep it original, if I can.

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@...> wrote:
>
> I have had them open..and there isn't much you would be able to do unless there was just a bad connection.
>
> I would:
>
> 1. be certain the input frequency is properly centered.
> 2. be sure the switch is clean and functioning properly
> 3. swap in the filter inputs and outputs either at the switch or on the filter bodies to see if the same filter remains bad in the new switch position. If the freq is centered, the switch is functioning and all other circuits are common, then if it behaves differently, it might not be bad.
>
> Curt
> KU8L
>
> --- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@> wrote:
> >
> > I've played around with a number of things, but I'm pretty well convinced the USB filter in the project TR-4C is shot. Seems to have a frequency response of 1800-2800 Hz. Makes 40M LSB and 20M USB communications out of the question.
> >
> > Anyone have a parts TR-4C or alternate suggestions?
> >
> > 73,
> > Steve
> > W1KF
> >
>

4357. Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-23 23:39:36 UTC
From: arsnf7z
Topic: 4333 Message: 4357

one more recommendation for the Misco speaker. the only unfortunate aspect of the purchase was the $12 shipping charge. for communications I think the response is perfect. some might like more bass for AM, wideband SSB, etc. I had previously tried to save some money and purchased a Boss 10oz 4 ohm speaker from Amazon. it would not fit without cutting metal, and the inefficiency was too much for the Drake output stage. that is to say, it sounded feeble and muddy.

it appears that this new surplus speaker is the perfect replacement, albeit an expensive one.

NF7Z, daniel

4358. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-24 00:43:02 UTC
From: phbjr@aol.com
Topic: 4333 Message: 4358

I bought one and installed it a couple of days ago, really like the
improvement in sound.

73/arf,

Paul, K4MSG

In a message dated 9/23/2010 7:39:54 P.M. Eastern Daylight Time,
ars.nf7z@... writes:

one more recommendation for the Misco speaker. the only unfortunate aspect
of the purchase was the $12 shipping charge. for communications I think
the response is perfect. some might like more bass for AM, wideband SSB, etc.
I had previously tried to save some money and purchased a Boss 10oz 4 ohm
speaker from Amazon. it would not fit without cutting metal, and the
inefficiency was too much for the Drake output stage. that is to say, it sounded
feeble and muddy.

it appears that this new surplus speaker is the perfect replacement,
albeit an expensive one.

NF7Z, daniel

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4359. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-24 00:56:37 UTC
From: Charles Ring
Topic: 4333 Message: 4359

I did the same, same result. I had no real trouble removing the
original speaker. One thing yet to be seen is if it leaves room for an
AC-4 since it is thicker than the original.

73 de W3NU

On 9/23/2010 20:43, phbjr@... wrote:
>
> I bought one and installed it a couple of days ago, really like the
> improvement in sound.
>
> 73/arf,
>
> Paul, K4MSG
>
>
> In a message dated 9/23/2010 7:39:54 P.M. Eastern Daylight Time,
> ars.nf7z@... <mailto:ars.nf7z%40gmail.com> writes:
>
> one more recommendation for the Misco speaker. the only unfortunate
> aspect
> of the purchase was the $12 shipping charge. for communications I think
> the response is perfect. some might like more bass for AM, wideband
> SSB, etc.
> I had previously tried to save some money and purchased a Boss 10oz 4 ohm
> speaker from Amazon. it would not fit without cutting metal, and the
> inefficiency was too much for the Drake output stage. that is to say,
> it sounded
> feeble and muddy.
>
> it appears that this new surplus speaker is the perfect replacement,
> albeit an expensive one.
>
> NF7Z, daniel
>
> --
>
>

[Non-text portions of this message have been removed]

4360. Re: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-24 01:13:02 UTC
From: Jim Chaggaris
Topic: 4333 Message: 4360

Paul,

I agree. The replacement speaker is a significant improvement IMHO and there's also plenty of room for the AC-4 PS with no crowding.

73,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241

-----Original Message-----
From: phbjr@...
Sent: Thursday, September 23, 2010 7:43pm
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

I bought one and installed it a couple of days ago, really like the improvement in sound.

73/arf,

Paul, K4MSG

In a message dated 9/23/2010 7:39:54 P.M. Eastern Daylight Time, ars.nf7z@... writes:

one more recommendation for the Misco speaker. the only unfortunate aspect of the purchase was the $12 shipping charge. for communications I think the response is perfect. some might like more bass for AM, wideband SSB, etc. I had previously tried to save some money and purchased a Boss 10oz 4 ohm speaker from Amazon. it would not fit without cutting metal, and the inefficiency was too much for the Drake output stage. that is to say, it sounded feeble and muddy.

it appears that this new surplus speaker is the perfect replacement, albeit an expensive one.

NF7Z, daniel

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4361. RE: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-24 13:23:28 UTC
From: Bob Spooner
Topic: 4333 Message: 4361

Does anyone know if this speaker will fit in a MS7 cabinet?

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Chaggaris
Sent: Thursday, September 23, 2010 9:13 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

Paul,

I agree. The replacement speaker is a significant improvement IMHO and there's also plenty of room for the AC-4 PS with no crowding.

73,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241

-----Original Message-----
From: phbjr@... <mailto:phbjr%40aol.com>
Sent: Thursday, September 23, 2010 7:43pm
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

I bought one and installed it a couple of days ago, really like the improvement in sound.

73/arf,

Paul, K4MSG

In a message dated 9/23/2010 7:39:54 P.M. Eastern Daylight Time, ars.nf7z@... <mailto:ars.nf7z%40gmail.com> writes:

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the response is perfect. some might like more bass for AM, wideband SSB, etc.
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speaker from Amazon. it would not fit without cutting metal, and the
inefficiency was too much for the Drake output stage. that is to say, it sounded
feeble and muddy.

it appears that this new surplus speaker is the perfect replacement,
albeit an expensive one.

NF7Z, daniel

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4362. RE: [DrakeRadio] Re: MS-4 Replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-24 13:52:36 UTC
From: Jim Chaggaris
Topic: 4333 Message: 4362

Bob,

The replacement speaker matches the footprint of the original speaker (5”x7”). So no, it will not fit in the MS7 cabinet.

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Spooner
Sent: Friday, September 24, 2010 8:23 AM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Re: MS-4 Replacement

Does anyone know if this speaker will fit in a MS7 cabinet?

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On Behalf Of Jim Chaggaris
Sent: Thursday, September 23, 2010 9:13 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

Paul,

I agree. The replacement speaker is a significant improvement IMHO and there's also plenty of room for the AC-4 PS with no crowding.

73,

Jim N9WW

James Chaggaris
PowerOne Corp./PowerOne Environmental
1020 Cedar Avenue
Suite 203
St. Charles, IL 60174
Phn: (630) 443-6500
Fax: (630) 443-6505
Cell: (630) 669-2241

-----Original Message-----
From: phbjr@... <mailto:phbjr%40aol.com> <mailto:phbjr%40aol.com>
Sent: Thursday, September 23, 2010 7:43pm
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
<mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] Re: MS-4 Replacement

I bought one and installed it a couple of days ago, really like the
improvement in sound.

73/arf,

Paul, K4MSG

In a message dated 9/23/2010 7:39:54 P.M. Eastern Daylight Time,
ars.nf7z@... <mailto:ars.nf7z%40gmail.com> <mailto:ars.nf7z%40gmail.com> writes:

one more recommendation for the Misco speaker. the only unfortunate aspect
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speaker from Amazon. it would not fit without cutting metal, and the
inefficiency was too much for the Drake output stage. that is to say, it sounded
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it appears that this new surplus speaker is the perfect replacement,
albeit an expensive one.

NF7Z, daniel

Yahoo! Groups Links

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

4363. Need PTO dial for T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-28 11:54:49 UTC
From: bpierfel
Topic: 4363 Message: 4363

My transmitters PTO dial was apparently exposed to sunlight for ? years and is brown (not from smoking) where the dial was parked.
Anyone have a junker dial available or know of a repro? It appears to be the same dial as my R-4B has.
tnx
Bob KB8TL

4364. R-4B problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-28 13:58:40 UTC
From: JC
Topic: 4364 Message: 4364

I picked up a R-4B at the Ten Tec Hamfest last weekend. Plays good but every so often the volume drops down (not completely gone) and will come back on its own after a while or will come back immediately by switching from 'ON' to 'STANDBY' then back to 'ON'. Where do I look for the problem ... have limited testing equipment. Thanks.
73/Crit/K4BXN

4365. Re: [DrakeRadio] R-4B problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-28 14:01:24 UTC
From: amfone
Topic: 4364 Message: 4365

Clean that switch with de-oxit, just a little not a lot of cleaner.

Tim
wb8uhz

_____
From: JC <jcharley@bellsouth.net>
To: DrakeRadio@yahoogroups.com
Sent: Tue, September 28, 2010 9:58:40 AM
Subject: [DrakeRadio] R-4B problem

I picked up a R-4B at the Ten Tec Hamfest last weekend. Plays good but every so
often the volume drops down (not completely gone) and will come back on its own
after a while or will come back immediately by switching from 'ON' to 'STANDBY'
then back to 'ON'. Where do I look for the problem ... have limited testing
equipment. Thanks.
73/Crit/K4BXN

[Non-text portions of this message have been removed]

4366. Re: [DrakeRadio] R-4B problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-28 14:10:25 UTC
From: phbjr@aol.com
Topic: 4364 Message: 4366

On the R-4A this can be caused by C126, 0.1 ufd 200v cap, becoming intermittent. There are two documented cases of this on the Drake List. The cap is electrically located near the input side of the PBT, physically on the small PCB next to V4 (12BA6).

Sorry I can't be more specific, I'm on vacation and don't have a schematic with me.

73/arf,

Paul, K4MSG

[Non-text portions of this message have been removed]

4367. Parts Needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-28 16:59:49 UTC
From: Don Cunningham
Topic: 4367 Message: 4367

Does anyone out there happen to have some cases for the C Line?? I got what was a pristine T4XC and R4C, but the UPS Store that packed it didn't put enough packing to do any good at ALL. I need the top and bottom cases for the R4C and the bottom case for the T4XC. These are NOT slight bends, and all are in the area of the front where the metal is folded over, negating a chance to straighten them. I am just sick!!! Awaiting word from the seller, to see if he insured them well, but will need to know if any cases are available.
Thanks,
Don, WB5HAK

[Non-text portions of this message have been removed]

4368. Cases

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-29 03:10:23 UTC
From: Don Cunningham
Topic: 4368 Message: 4368

My case problem is solved by a member on one of the lists.
Thanks,
Don

4369. Question about L4B keying from modern radios

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-29 20:16:00 UTC
From: Ivan
Topic: 4369 Message: 4369

I have an ICOM 746Pro which I would like to use with my L4B linear. I have read that voltages might damage the IC and others. I have an Ameritron ARB704 which I used with my FT950 to Ameritron.

I would be grateful if someone would point me to safely connecting.
Here are the available "ports"

L4B has XTMG AGC OUTPUT (an RCA female)
AMERITRON ARB704 has the following female RCA ports:

AMP
ALC
RADIO
It has also a 5-pin DIN which will interface with the IC746Pro.

The IC746PRO has SEND CONTROL JACK an RCA female #8: "Goes to ground while transmitting to control external equipment such as linear amp. Max control level: 16VDC/0.5 A.

So should I connect the XTMG AGC to this #8 RCA?

Thanks for advice.
Ivan
73
KB1STH

4370. Re: [DrakeRadio] Question about L4B keying from modern radios

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-29 21:02:45 UTC
From: Joe
Topic: 4369 Message: 4370

Ivan...

What I did is convert the 2 pin VOX connector to a single RCA jack...You can
get the factory kit from here (on eBay)

http://cgi.ebay.com/Drake-VOX-kit-/390181797533?pt=LH_DefaultDomain_0&hash=item5ad8a5be9d

or..

You can buy an adapter cable from here:

http://cgi.ebay.com/Drake-L4-L4B-cable-Relay-/270641971580?pt=LH_DefaultDomain_0&hash=item
3f0384c17c

or

You can make your own.

I use my L4-B with the Ameritron ARB-704 and a Kenwood TS-2000. Of course,
with the B Line I have, no special relay or cables needed, other than the
VOX cable.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Ivan" <KB1STH@...>
Subject: [DrakeRadio] Question about L4B keying from modern radios

>I have an ICOM 746Pro which I would like to use with my L4B linear. I have
>read that voltages might damage the IC and others. I have an Ameritron
>ARB704 which I used with my FT950 to Ameritron.
>
> I would be grateful if someone would point me to safely connecting.
> Here are the available "ports"
>
> L4B has XTMG AGC OUTPUT (an RCA female)

4371. Re: [DrakeRadio] Question about L4B keying from modern radios

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-30 01:40:21 UTC
From: K4GM
Topic: 4369 Message: 4371

Hi Ivan...Glad to see u hv the L4B ready to go. Call me and I ll tell u how to do it.
George K4GM

Sent via DROID on Verizon Wireless

-----Original message-----
From: Ivan <KB1STH@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, Sep 29, 2010 20:16:00 GMT+00:00
Subject: [DrakeRadio] Question about L4B keying from modern radios

I have an ICOM 746Pro which I would like to use with my L4B linear. I have read that voltages might damage the IC and others. I have an Ameritron ARB704 which I used with my FT950 to Ameritron.

I would be grateful if someone would point me to safely connecting.
Here are the available "ports"

L4B has XTMG AGC OUTPUT (an RCA female)
AMERITRON ARB704 has the following female RCA ports:

AMP
ALC
RADIO
It has also a 5-pin DIN which will interface with the IC746Pro.

The IC746PRO has SEND CONTROL JACK an RCA female #8: "Goes to ground while transmitting to control external equipment such as linear amp. Max control level: 16VDC/0.5 A.

So should I connect the XTMG AGC to this #8 RCA?

Thanks for advice.
Ivan
73
KB1STH

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4372. Drake C Line for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-29 18:48:06 UTC
From: wr5rr@sbcglobal.net
Topic: 4372 Message: 4372

Drake C Line

I want to sell my C-line because I can't justify the little operating time I use it. It's too nice to set around. Someone who will use it more should have it. I would rather not ship the Drakes for obvious reasons. I am in central Oklahoma and would be willing meet a buyer half way, a reasonable distance of course. If interested please contact me off list and I can send pix and exchange cell phone numbers to further discuss the equipment.

R-4C S/N-16805, this unit was completely gone over by Jeff Covelli WA8SAJ in January of 2007. It is a 9+ condition. I have the paper work and manual for this unit also. Normal band crystals 3.5, 7.0, 14.0, 21.0, 28.5, plus there are 12 extra crystals in the- RX, Xtals: 1.5, 3.0, 9.5, 14.5, 15.0, 27.0, 28.0, 29.0, 29.5, 10.0, 18.0, and 24.0. The receiver has the 2.4, 1.5, and .5 khz filters. $395 OBO for R-4C.

TX-4C S/N-21608, this unit was also completely gone over by Jeff Covelli WA8SAJ in January of 2007 and it also has had only about two or three hours of use since. The condition is 9+ out of 10. Normal band crystals 3.5, 7.0, 14.0, 21.0, 28.5. It is paired with the AC-4 power supply S/N-44734 which was upgraded to solid state (AC-4R) in January 2007 by Jeff, and the the MS-4 cabinet. I will include the MS-4 to the buyer who buys all on a package deal. $395 OBO for R-4C and AC-4R.

All connecting cables included for transceive or separate operation. I have the repair paper work and manuals for the R-4C /TX-4C.
Asking $750 OBO for all including MS-4.

I also have the following items used with the C-Line:
Audio-Technica P-16 microphone with matching transformer for the TX-4C, with a Heil low profile short boom. $40
Drake 7075 microphone. $50
Key-All to allow a solid state keyer to be used with the TX-4C. $25
Drake W-4 watt meter with the K4DPK PEP kit installed. $50

Total for all listed is $875

Ron
WR5RR

4373. Drake T-4XB Connections to Heathkit SB-220

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-01 01:32:37 UTC
From: John
Topic: 4373 Message: 4373

Greetings.

It's fascinating that KB1STH asked his question since I just logged in to ask my question about going the other way. I want to be certain about my connections of my beloved Drake T-4XB transmitter to a Heathkit SB-220 linear amplifier (still going strong since I assembled it back in 1976).

Pins 5 and 8 on the T-4XB connect to the SB-220 antenna relay connector. The SB-220 carries 120 VDC on this line. Are the T-4XB relay contacts capable of handling this voltage? (I have not found any ratings for these in the manuals.)

Pins 3 and 7 on the T-4XB connect to the SB-220 ALC connector. The SB-220 carries 60 VDC negative threshold voltage on this line. I know that the T-4XB requires negative going transmit AGC voltage on pin-3 to prevent flat-topping of voice peaks due to over-drive. But again, I have not encountered the voltage rating of the T-4xB.

Does the collective have any insights into this?

Thank you in advance for your help.

John
WB0RXL

4374. Re: [DrakeRadio] Drake T-4XB Connections to Heathkit SB-220

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-01 03:32:20 UTC
From: Garey Barrell
Topic: 4373 Message: 4374

John -

I don't have any specifications for the relay contacts in the T-4XB. The plug-in relay in the C Line, similar construction, has contacts that are rated at 2A at 28 VDC or 2A at 155 VAC.

Just for reference the L-4B keys with 30 VDC @ about 60 mA. So we can assume that is a 'safe' load for the relays in the T-4X(any) transmitters.

All that aside, especially in the T-4XB, I'm sure you've examined the location and wiring of that relay, and perhaps have even considered what would be involved in replacing it, IF you could find a suitable electrical and mechanical replacement. Drake offered a "repair" kit, consisting of a plug-in relay as used in the T-4XC, along with a small PC board and several pages of instructions on converting the 'B'.

Now. External, 'soft-key' or other interface units are pretty inexpensive, and if THEY fail it's a rather simple repair, with considerably more modern parts. Personally I would MUCH rather 'baby' those relay contacts so they would hopefully outlast ME.

The ALC connection is either a lot simpler, or more difficult, depending upon how you look at it. For one, you really SHOULD have a scope to verify that you're not overdriving your amp into distortion. Actually, it's likely that you wouldn't be able to over drive the SB-220 with a typical T-4X(any). The ALC is negative on the T-4XB, and since it's a 'closed loop' system, e.g., IF the amp is over driven, it puts out a negative voltage that reduces the drive (output) of the T-4XB proportionally.

In the L-4B, the RF input is sampled, rectified and used to offset a positive bias set by the front panel "AGC" control. The SB-220 seems to have a similar setup except the threshold is fixed by a resistive voltage divider. It's reasonable to assume that drive for the tubes would be about the same, although again you need a scope to see if the divider sets the threshold properly. Wouldn't be a big deal to adjust those resistors, but most likely not required.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

John wrote:
> Greetings.

>
> It's fascinating that KB1STH asked his question since I just logged in to ask my question about going the other way. I want to be certain about my connections of my beloved Drake T-4XB transmitter to a Heathkit SB-220 linear amplifier (still going strong since I assembled it back in 1976).
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> Pins 5 and 8 on the T-4XB connect to the SB-220 antenna relay connector. The SB-220 carries 120 VDC on this line. Are the T-4XB relay contacts capable of handling this voltage? (I have not found any ratings for these in the manuals.)
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> Pins 3 and 7 on the T-4XB connect to the SB-220 ALC connector. The SB-220 carries 60 VDC negative threshold voltage on this line. I know that the T-4XB requires negative going transmit AGC voltage on pin-3 to prevent flat-topping of voice peaks due to over-drive. But again, I have not encountered the voltage rating of the T-4xB.
>
> Does the collective have any insights into this?
>
> Thank you in advance for your help.
>
> John
> WB0RXL
>
>
>

4375. Re: Drake T-4XB Connections to Heathkit SB-220

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-01 18:17:17 UTC
From: John
Topic: 4373 Message: 4375

Thanks for your response, Garey.

I like your idea of an external keying circuit. I think I will head that direction.

Yes - I do have a scope on the output of the linear to spot check modulation - usually after a QSY to a different band.

I subscribe to the theory of not pushing everything to the limit, since a few watts less seldom makes any difference on the other end. I used the linear when I was in Ecuador to help with third-party phone patches, but now-a-days state-side I just rag-chew with other hams. But I would like to have it available in case I want to use it with the Drake twins.

Thanks again for your help.

73,

John
WB0RXL

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> John -
>
> I don't have any specifications for the relay contacts in the T-4XB.
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> Just for reference the L-4B keys with 30 VDC @ about 60 mA. So we can
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> All that aside, especially in the T-4XB, I'm sure you've examined the
> location and wiring of that relay, and perhaps have even considered what
> would be involved in replacing it, IF you could find a suitable
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> PC board and several pages of instructions on converting the 'B'.
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> inexpensive, and if THEY fail it's a rather simple repair, with
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> those relay contacts so they would hopefully outlast ME.
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> The ALC connection is either a lot simpler, or more difficult, depending
> upon how you look at it. For one, you really SHOULD have a scope to
> verify that you're not overdriving your amp into distortion. Actually,
> it's likely that you wouldn't be able to over drive the SB-220 with a
> typical T-4X(any). The ALC is negative on the T-4XB, and since it's a

> 'closed loop' system, e.g., IF the amp is over driven, it puts out a
> negative voltage that reduces the drive (output) of the T-4XB
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> In the L-4B, the RF input is sampled, rectified and used to offset a
> positive bias set by the front panel "AGC" control. The SB-220 seems to
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> voltage divider. It's reasonable to assume that drive for the tubes
> would be about the same, although again you need a scope to see if the
> divider sets the threshold properly. Wouldn't be a big deal to adjust
> those resistors, but most likely not required.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> John wrote:
> > Greetings.
> >
> > It's fascinating that KB1STH asked his question since I just logged in to ask my question about going the other way. I want to be certain about my connections of my beloved Drake T-4XB transmitter to a Heathkit SB-220 linear amplifier (still going strong since I assembled it back in 1976).
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> >
> > Does the collective have any insights into this?
> >
> > Thank you in advance for your help.
> >
> > John
> > WB0RXL
> >
> >
> >
>

4376. TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-01 21:22:37 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4376

The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)

Anyone else run into this? Any helpful hints?

73,
Steve
W1KF

4377. Re: [DrakeRadio] TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-01 21:47:59 UTC
From: Garey Barrell
Topic: 4376 Message: 4377

Steve -

Interesting, I don't think I've ever seen a PTO in a TR-4C without the levers. But then I haven't seen all that many TR-4Cs!! :-) All the levers do is to apply pressure to the side of one of the idler gear shafts. The shaft 'bearing' in the front plate of the PTO is elongated to allow the shaft to move laterally to disengage the gear. They are the ones with a spring to pull them back into mesh.

Easiest is to set the PTO to a known frequency, either by measuring the PTO frequency itself or by tuning in a known marker, then disengage the dials one at a time. When disengaged they will rotate freely and you can put them where the belong.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
> The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)
>
> Anyone else run into this? Any helpful hints?
>
> 73,
> Steve
> W1KF
>
>
>
>

4378. Re: Drake C Line for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-02 00:23:07 UTC
From: wr5rr@sbcglobal.net
Topic: 4372 Message: 4378

I have sold my Drake C Line listed here. Thanks for the interest!
Ron WR5RR

--- In DrakeRadio@yahoogroups.com, "wr5rr@..." <wr5rr@...> wrote:
>
> Drake C Line
>
> I want to sell my C-line because I can't justify the little operating time I use it. It's too nice to set around. Someone who will use it more should have it. I would rather not ship the Drakes for obvious reasons. I am in central Oklahoma and would be willing meet a buyer half way, a reasonable distance of course. If interested please contact me off list and I can send pix and exchange cell phone numbers to further discuss the equipment.
>
> R-4C S/N-16805, this unit was completely gone over by Jeff Covelli WA8SAJ in January of 2007. It is a 9+ condition. I have the paper work and manual for this unit also. Normal band crystals 3.5, 7.0, 14.0, 21.0, 28.5, plus there are 12 extra crystals in the- RX, Xtals: 1.5, 3.0, 9.5, 14.5, 15.0, 27.0, 28.0, 29.0, 29.5, 10.0, 18.0, and 24.0. The receiver has the 2.4, 1.5, and .5 khz filters. $395 OBO for R-4C.
>
> TX-4C S/N-21608, this unit was also completely gone over by Jeff Covelli WA8SAJ in January of 2007 and it also has had only about two or three hours of use since. The condition is 9+ out of 10. Normal band crystals 3.5, 7.0, 14.0, 21.0, 28.5. It is paired with the AC-4 power supply S/N-44734 which was upgraded to solid state (AC-4R) in January 2007 by Jeff, and the the MS-4 cabinet. I will include the MS-4 to the buyer who buys all on a package deal. $395 OBO for R-4C and AC-4R.
>
> All connecting cables included for transceive or separate operation. I have the repair paper work and manuals for the R-4C /TX-4C.
> Asking $750 OBO for all including MS-4.
>
> I also have the following items used with the C-Line:
> Audio-Technica P-16 microphone with matching transformer for the TX-4C, with a Heil low profile short boom. $40
> Drake 7075 microphone. $50
> Key-All to allow a solid state keyer to be used with the TX-4C. $25
> Drake W-4 watt meter with the K4DPK PEP kit installed. $50
>
> Total for all listed is $875
>
> Ron
> WR5RR
>

4379. Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-02 02:09:56 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4379

Garey,

Lucky me. Without those levers, it's almost impossible to re-set the front dial so the holes line up for the little rivets. I guess I'll have to keep trying...

I've got a frequency counter looking at the PTO output, so it's easy to know where the dials ought to be. It's the mechanics that are messing up my progress...

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> Interesting, I don't think I've ever seen a PTO in a TR-4C without the
> levers. But then I haven't seen all that many TR-4Cs!! :-) All the
> levers do is to apply pressure to the side of one of the idler gear
> shafts. The shaft 'bearing' in the front plate of the PTO is elongated
> to allow the shaft to move laterally to disengage the gear. They are
> the ones with a spring to pull them back into mesh.
>
> Easiest is to set the PTO to a known frequency, either by measuring the
> PTO frequency itself or by tuning in a known marker, then disengage the
> dials one at a time. When disengaged they will rotate freely and you
> can put them where the belong.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1kilofoxtrot wrote:
> > The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)
> >
> > Anyone else run into this? Any helpful hints?
> >
> > 73,
> > Steve

> > W1KF
> >
> >
> >
> >
>

4380. Re: [DrakeRadio] Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-02 03:10:30 UTC
From: Garey Barrell
Topic: 4376 Message: 4380

Steve -

You put the rivets in first! The entire hub rotates once the idler
gears are disengaged... You should be able to disengage them by pushing
the idler gear shafts to the side away from the rest of the gears to
allow the hubs to rotate freely.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
> Garey,
>
> Lucky me. Without those levers, it's almost impossible to re-set the front dial so the holes line up for the little rivets. I guess I'll have to keep trying...
>
> I've got a frequency counter looking at the PTO output, so it's easy to know where the dials ought to be. It's the mechanics that are messing up my progress...
>
> 73,
> Steve
> W1KF
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Steve -
>>
>> Interesting, I don't think I've ever seen a PTO in a TR-4C without the
>> levers. But then I haven't seen all that many TR-4Cs!! :-) All the
>> levers do is to apply pressure to the side of one of the idler gear
>> shafts. The shaft 'bearing' in the front plate of the PTO is elongated
>> to allow the shaft to move laterally to disengage the gear. They are
>> the ones with a spring to pull them back into mesh.
>>
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>> PTO frequency itself or by tuning in a known marker, then disengage the
>> dials one at a time. When disengaged they will rotate freely and you
>> can put them where the belong.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>

>> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
>> TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> w1kilofoxtrot wrote:
>>
>>> The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)
>>>
>>> Anyone else run into this? Any helpful hints?
>>>
>>> 73,
>>> Steve
>>> W1KF
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> Yahoo! Groups Links
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4381. Volume controls for drake receivers listed on QTH.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-02 03:38:47 UTC
From: DennisW
Topic: 4381 Message: 4381

Listing # 858199 2 units for $10 shipped.

Not my listing. Donnie wa9tgt listing.

For both early 13 tube and late 11 tube receivers.

Denny

w4eal

4382. Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 00:47:12 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4382

Ahh, Gary, it would be that simple if I had idler gears that would move out of the way. But, I seem to have been blessed with a PTO assembly where the gears were fixed in place, and the only thing I can do is slip the back dial by removing the clip ring and wiggling the whole assembly around. So, I can set the back dial (with some difficulty), but not the front dial.

Steve
W1KF

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> You put the rivets in first! The entire hub rotates once the idler
> gears are disengaged... You should be able to disengage them by pushing
> the idler gear shafts to the side away from the rest of the gears to
> allow the hubs to rotate freely.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1kilofoxtrot wrote:
> > Garey,
> >
> > Lucky me. Without those levers, it's almost impossible to re-set the front dial so the holes line up for the little rivets. I guess I'll have to keep trying...
> >
> > I've got a frequency counter looking at the PTO output, so it's easy to know where the dials ought to be. It's the mechanics that are messing up my progress...
> >
> > 73,
> > Steve
> > W1KF
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Steve -
> >>
> >> Interesting, I don't think I've ever seen a PTO in a TR-4C without the
> >> levers. But then I haven't seen all that many TR-4Cs!! :-) All the

> >> levers do is to apply pressure to the side of one of the idler gear
> >> shafts. The shaft 'bearing' in the front plate of the PTO is elongated
> >> to allow the shaft to move laterally to disengage the gear. They are
> >> the ones with a spring to pull them back into mesh.
> >>
> >> Easiest is to set the PTO to a known frequency, either by measuring the
> >> PTO frequency itself or by tuning in a known marker, then disengage the
> >> dials one at a time. When disengaged they will rotate freely and you
> >> can put them where the belong.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> >> TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> w1kilofoxtrot wrote:
> >>
> >>> The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)
> >>>
> >>> Anyone else run into this? Any helpful hints?
> >>>
> >>> 73,
> >>> Steve
> >>> W1KF
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> > Yahoo! Groups Links
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4383. Re: Seeking TR-4C upper sideband crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-09-23 14:21:46 UTC
From: ganders52
Topic: 4277 Message: 4383

I have two filters for the TR4/TR4C. If you are interested send me an email at my home account (kg6yv@...). These came from a working TR4 that had an upgrade to the INDRAD filters.

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> Finally got back to this. Decided to short out the filters, and things are working much better. There was very little coupling in the 'X' filter, so could not get any output from the rig until I shorted it out. Dummy load is nice and warm, now! Receive is not bad either, but of course I need the filter to knock out the opposite sideband, so this is a test-only proposition.
>
> It does mean I need a new filter, though. Anyone parting out a TR-4 rig? Or, should I simply use some KVG filters, available from a vendor in Israel? I think the KVG are 8 pole, high quality units, but I'd have to fabricate a new bracket for them. I'd rather keep it original, if I can.
>
> 73,
> Steve
> W1KF
>
> --- In DrakeRadio@yahoogroups.com, "captcurt2000" <captcurt@> wrote:
> >
> > I have had them open..and there isn't much you would be able to do unless there was just a bad connection.
> >
> > I would:
> >
> > 1. be certain the input frequency is properly centered.
> > 2. be sure the switch is clean and functioning properly
> > 3. swap in the filter inputs and outputs either at the switch or on the filter bodies to see if the same filter remains bad in the new switch position. If the freq is centered, the switch is functioning and all other circuits are common, then if it behaves differently, it might not be bad.
> >
> > Curt
> > KU8L
> >
> > --- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@> wrote:
> > >
> > > I've played around with a number of things, but I'm pretty well convinced the USB filter in the project TR-4C is shot. Seems to have a frequency response of 1800-2800 Hz. Makes 40M LSB and 20M USB communications out of the question.
> > >
> > > Anyone have a parts TR-4C or alternate suggestions?

> > >
> > > 73,
> > > Steve
> > > W1KF
> > >
> >
>

4384. #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 10:14:59 UTC
From: Victor
Topic: 4384 Message: 4384

Hi all
No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?

Vic

4385. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 11:54:32 UTC
From: phbjr@aol.com
Topic: 4384 Message: 4385

Vic,

I'll send you some #47 bulbs. How many do you need?

Paul, K4MSG

In a message dated 10/3/2010 6:15:14 A.M. Eastern Daylight Time,
g4jss@... writes:

Hi all
No supplier this side of the pond seems to know what a #47 bulb is so need
to find a substitute. The nearest I can find is 6.3v 150ma with a base
dia. of about 9mm. Are those values near enough correct?

Vic

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4386. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 12:15:56 UTC
From: John Daly
Topic: 4384 Message: 4386

Radio Shack 272-1110 listed in cat and likely available in most stores. 1.99 for a two pack.

Sent from my iPod

On Oct 3, 2010, at 6:14 AM, "Victor" <g4jss@...> wrote:

Hi all
No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?

Vic

[Non-text portions of this message have been removed]

4387. Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 14:30:18 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4387

A follow up. Seems my vision is not all that it should be. My PTO does, in fact, have a slotted hole for the idler gears. That means I -can- finagle the gear set in order to line up the two dials.

My PTO does not have the fancy levers shown in some pictures, but I've gotten it done just the same.

Yet another step complete!

Now, I've got to get the carrier oscillator on frequency. It's about 800 Hz too low, so I can't get it centered between the two filters. It would have to be too low, right? I can't just pad it up with some paralleled caps...

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> Ahh, Gary, it would be that simple if I had idler gears that would move out of the way. But, I seem to have been blessed with a PTO assembly where the gears were fixed in place, and the only thing I can do is slip the back dial by removing the clip ring and wiggling the whole assembly around. So, I can set the back dial (with some difficulty), but not the front dial.
>
> Steve
> W1KF
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Steve -
> >
> > You put the rivets in first! The entire hub rotates once the idler
> > gears are disengaged... You should be able to disengage them by pushing
> > the idler gear shafts to the side away from the rest of the gears to
> > allow the hubs to rotate freely.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> > TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > w1kilofoxtrot wrote:

> > > Garey,
> > >
> > > Lucky me. Without those levers, it's almost impossible to re-set the front dial so the holes line up for the little rivets. I guess I'll have to keep trying...
> > >
> > > I've got a frequency counter looking at the PTO output, so it's easy to know where the dials ought to be. It's the mechanics that are messing up my progress...
> > >
> > > 73,
> > > Steve
> > > W1KF
> > >
> > > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> > >
> > >> Steve -
> > >>
> > >> Interesting, I don't think I've ever seen a PTO in a TR-4C without the
> > >> levers. But then I haven't seen all that many TR-4Cs!! :-) All the
> > >> levers do is to apply pressure to the side of one of the idler gear
> > >> shafts. The shaft 'bearing' in the front plate of the PTO is elongated
> > >> to allow the shaft to move laterally to disengage the gear. They are
> > >> the ones with a spring to pull them back into mesh.
> > >>
> > >> Easiest is to set the PTO to a known frequency, either by measuring the
> > >> PTO frequency itself or by tuning in a known marker, then disengage the
> > >> dials one at a time. When disengaged they will rotate freely and you
> > >> can put them where the belong.
> > >>
> > >> 73, Garey - K4OAH
> > >> Glen Allen, VA
> > >>
> > >> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> > >> TR-4/C Service Supplement CDs
> > >> <www.k4oah.com>
> > >>
> > >>
> > >> w1kilofoxtrot wrote:
> > >>
> > >>> The previous owner soaked the PTO gearset in oil. I took it apart, and got it pretty well cleaned up. It's very smooth, but I can't get the dials aligned again. The procedure on WB4HFN's web site shows adjustment arms that let the gears unmesh, but I don't have them on my unit. (SN 34674)
> > >>>
> > >>> Anyone else run into this? Any helpful hints?
> > >>>
> > >>> 73,
> > >>> Steve
> > >>> W1KF
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> > > Yahoo! Groups Links
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4388. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 14:35:57 UTC
From: Garey Barrell
Topic: 4384 Message: 4388

Vic -

That sounds about right. It's correct electrically, and 9mm is about
right for the base diameter.

If you end up having to order them, order #755 as they will last
'forever' and are completely interchangeable with the #47. 20,000 hour
life for the #755 vs 3,000 hours for the #47.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi all
> No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?
>
> Vic
>
>
>

4389. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 14:49:04 UTC
From: John Daly
Topic: 4384 Message: 4389

RE: #47 Bulb

Sorry Vic - Did not notice that you were in the UK.

73 John WA9WHD

--- On Sun, 10/3/10, Victor <g4jss@...> wrote:

From: Victor <g4jss@...>
Subject: [DrakeRadio] #47 bulb
To: DrakeRadio@yahoogroups.com
Date: Sunday, October 3, 2010, 3:14 AM

Hi all
No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?

Vic

[Non-text portions of this message have been removed]

4390. Re: [DrakeRadio] Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 14:59:30 UTC
From: Garey Barrell
Topic: 4376 Message: 4390

Steve -

You just need three pairs of 'reading' glasses, an Opti-Visor, and several magnifying glasses like I do!! :-)

As for your CO problem, clean the contacts of relay K2, (in the CO compartment, on the back wall of the chassis.) Also make sure it operates when you switch modes. Crystals almost always drift HIGH with age, so likely something else.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
> A follow up. Seems my vision is not all that it should be. My PTO does, in fact, have a slotted hole for the idler gears. That means I -can- finagle the gear set in order to line up the two dials.
>
> My PTO does not have the fancy levers shown in some pictures, but I've gotten it done just the same.
>
> Yet another step complete!
>
> Now, I've got to get the carrier oscillator on frequency. It's about 800 Hz too low, so I can't get it centered between the two filters. It would have to be too low, right? I can't just pad it up with some paralleled caps...
>
> 73,
> Steve
> W1KF
>
>
>

4391. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 15:03:19 UTC
From: Ken Burchfield
Topic: 4384 Message: 4391

Vic, this file by Phil,AD5X, may help for a replacement effort.
73 Ken

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 10/3/10, Victor <g4jss@...> wrote:

From: Victor <g4jss@...>
Subject: [DrakeRadio] #47 bulb
To: DrakeRadio@yahoogroups.com
Date: Sunday, October 3, 2010, 5:14 AM

Hi all
No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?

Vic

[Non-text portions of this message have been removed]

4392. Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 15:13:19 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4392

Garey,

The good news is that the relay is working as intended; it switches when in CW-X mode, as it should, and shifts the frequency up around 800 Hz or so. It's on receive that it's low.

I think I really can't get much further until I resolve this, since I don't want to peak everything up, and then find I've shifted the center frequency.

I wonder if one of the ceramic capacitors in the area has drifted. I cleaned the chassis mount variable capacitor for the crystal calibrator, but the one for the CO is tougher to get at. Guess I'll just have to give it a whirl!

I am learning this rig in much more detail than the old TR-3s that I had!!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> You just need three pairs of 'reading' glasses, an Opti-Visor, and
> several magnifying glasses like I do!! :-)
>
> As for your CO problem, clean the contacts of relay K2, (in the CO
> compartment, on the back wall of the chassis.) Also make sure it
> operates when you switch modes. Crystals almost always drift HIGH with
> age, so likely something else.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1kilofoxtrot wrote:
> > A follow up. Seems my vision is not all that it should be. My PTO does, in fact, have a slotted hole for the idler gears. That means I -can- finagle the gear set in order to line up the two dials.
> >
> > My PTO does not have the fancy levers shown in some pictures, but I've gotten it done just the same.
> >

> > Yet another step complete!
> >
> > Now, I've got to get the carrier oscillator on frequency. It's about 800 Hz too low, so I can't get it centered between the two filters. It would have to be too low, right? I can't just pad it up with some paralleled caps...
> >
> > 73,
> > Steve
> > W1KF
> >
> >
> >
>

4393. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 16:21:07 UTC
From: g4jss@tiscali.co.uk
Topic: 4384 Message: 4393

Hi Paul

Many thanks for your kind offer. Have done a bit more digging and think a suitable replacement over here is an R10 and will give that a try. If no good I will probably come back to you if you don't mind.

Also I would like to thank all those who offered help - very much appreciated.

73

Vic

[Non-text portions of this message have been removed]

4394. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 16:31:50 UTC
From: Garey Barrell
Topic: 4384 Message: 4394

Vic -

Looks right. According to Maplin, the 6.3V at 150 mA (BT81C) is also
rated at 20,000 hours, comparable to the #755. The physical dimensions
are also correct.

<http://www.maplin.co.uk/Module.aspx?ModuleNo=1974>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Paul
>
> Many thanks for your kind offer. Have done a bit more digging and think a suitable replacement over here is an R10 and will give that a try. If no good I will probably come back to you if you don't mind.
>
> Also I would like to thank all those who offered help - very much appreciated.
>
> 73
>
> Vic
>
>
>

4395. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 16:40:03 UTC
From: g4jss@tiscali.co.uk
Topic: 4384 Message: 4395

Thank you Gary.

Maplins is where I located the lamps so it seems we are on course.

Hope I manage to get down to their store - just received a severe terror alert here!!

Vic

[Non-text portions of this message have been removed]

4396. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 21:10:00 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4396

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4397. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 21:23:19 UTC
From: kr01a@aol.com
Topic: 4397 Message: 4397

I've just joined the Drake group. I'm Ed "Mac" MacDonald,
kr0i in K.C., MO. First licensed in 1953 and have owned
various Drake gear over the years. Been looking for a
TR-4cw for quite a while without success (g) Interested
in keeping up with what's happening in the Drake world.
73, Mac, kr0i

In a message dated 10/3/2010 4:10:03 P.M. Central Daylight Time,
DrakeRadio@yahoogroups.com writes:

For those of you that have not introduced yourself we welcome you to do so
and please feel free to upload your station pictures to the photos section
of our groups home page, as well as links to Drake information or your
homepage.

Don
KE7FFM

[Non-text portions of this message have been removed]

4398. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 21:35:33 UTC
From: Garey Barrell
Topic: 4397 Message: 4398

Mac -

Welcome! You have a few years on me, I started in '57. Been using Drake gear since about 1958 with a 1-A I wish I still had. But back then could only afford ONE radio, at best! :-)

This is a good group, activity waxes and wanes, but a bunch of knowledgeable Drake users.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

kr01a@... wrote:
> I've just joined the Drake group. I'm Ed "Mac" MacDonald,
> kr0i in K.C., MO. First licensed in 1953 and have owned
> various Drake gear over the years. Been looking for a
> TR-4cw for quite a while without success (g) Interested
> in keeping up with what's happening in the Drake world.
> 73, Mac, kr0i
>
>
> In a message dated 10/3/2010 4:10:03 P.M. Central Daylight Time,
> DrakeRadio@yahoogroups.com writes:
>
> For those of you that have not introduced yourself we welcome you to do so
> and please feel free to upload your station pictures to the photos section
> of our groups home page, as well as links to Drake information or your
> homepage.
>
> Don
> KE7FFM
>
>

4399. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 21:38:27 UTC
From: Ronald Erickson
Topic: 4397 Message: 4399

I am Ron, K0IC, in Essex, Iowa. I used to own a Drake TR-3 and a Drake SPR-4. I still own a Drake C-line which I plan to keep as long as I live. I am in the process of recapping the R-4C and I plan to upgrade the AC-4 power supply. I try to keep updated on what is going with the Drake lines. If I can afford it might like to have the Drake B-line but that is not affordable as I have health problems and I am on SSI. Other than that I am satisfied with what I have. I worked in broadcasting for twelve years before insurance and other problems got me in going another direction.

--
Ronald D. Erickson, K0IC
Heartland Hams
Southwest Iowa Amateur Radio Club
Bellevue Amateur Radio Club
ARRL Local Government Liaison
ARRL Public Information Officer
ARRL Technical Specialist
ARRL, the national association for Amateur Radio?
563-263-3097
ronalderickson777@...
10-X #12938 :* EN20iu
ARRL Lifer since 1976
3900 Club #729
Iowa QRP Club #179
QCWA #30762; Chapters, 25, 123, 210
FCC #PG-17-12556
FISTS CW Club #12484
Straight Key Century Club #2253
30 Meter Digital Group #3932
FGBMFI Life Member since 1985
Salvation Army Team Emergency Radio Network member
Pastor license by Universal Life Church, Modesto, CA 10/09/1976
Trying to join the Shenandoah Assembly of God
The Collins Collectors Association #AC07-12075
Courage HANDI-HAM System member
Ex: WN0GDA, WB0GDA, AK0N, AAV7AW
Ex: KMA-AM broadcast engineer 1977-1989.
Ex: SBE Senior Broadcast Engineer #2308 - Radio - AM/FM
IWCC -Clarinda Associate of Arts Degree - 1973
University of Nebraska at Omaha Bachelor of General Studies Degree - 1993
k0ic@...
www.contactify.com/c521b

[Non-text portions of this message have been removed]

4400. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 21:57:22 UTC
From: kr01a@aol.com
Topic: 4397 Message: 4400

Thanks for the welcome, Garey! I can see several
in your list that I wished I had kept. Right now
I'm running Yaesu 950 & 450 and really learning
how to dislike doing everything thru memories,etc (g)
I got my ham license when I got out of the service.
I retired from TWA in '91.
73, Mac, kr0i

In a message dated 10/3/2010 4:35:44 P.M. Central Daylight Time,
k4oah@mindspring.com writes:

Mac -

Welcome! You have a few years on me, I started in '57. Been using
Drake gear since about 1958 with a 1-A I wish I still had. But back
then could only afford ONE radio, at best! :-)

This is a good group, activity waxes and wanes, but a bunch of
knowledgeable Drake users.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

_kr01a@..._ (mailto:kr01a@...) wrote:
> I've just joined the Drake group. I'm Ed "Mac" MacDonald,
> kr0i in K.C., MO. First licensed in 1953 and have owned
> various Drake gear over the years. Been looking for a
> TR-4cw for quite a while without success (g) Interested
> in keeping up with what's happening in the Drake world.
> 73, Mac, kr0i
>
>
> In a message dated 10/3/2010 4:10:03 P.M. Central Daylight Time,
> _DrakeRadio@yahoogroups.com_ (mailto:DrakeRadio@yahoogroups.com) writes:
>
> For those of you that have not introduced yourself we welcome you to do
so
> and please feel free to upload your station pictures to the photos
section
> of our groups home page, as well as links to Drake information or your
> homepage.
>
> Don

> KE7FFM
>
>

[Non-text portions of this message have been removed]

4401. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 22:04:46 UTC
From: Garey Barrell
Topic: 4397 Message: 4401

Mac -

There's just something about a radio that looks like a microwave oven with buttons all over the panel. If you can't 'dip the final', it ain't Ham radio!

If you get bored, you can always page through or search the 4000+ messages in the archive! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

kr01a@... wrote:
> Thanks for the welcome, Garey! I can see several
> in your list that I wished I had kept. Right now
> I'm running Yaesu 950& 450 and really learning
> how to dislike doing everything thru memories,etc (g)
> I got my ham license when I got out of the service.
> I retired from TWA in '91.
> 73, Mac, kr0i
>
>
> In a message dated 10/3/2010 4:35:44 P.M. Central Daylight Time,
> k4oah@... writes:
>
>
>
>
> Mac -
>
> Welcome! You have a few years on me, I started in '57. Been using
> Drake gear since about 1958 with a 1-A I wish I still had. But back
> then could only afford ONE radio, at best! :-)
>
> This is a good group, activity waxes and wanes, but a bunch of
> knowledgeable Drake users.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs

> <www.k4oah.com>
>

4402. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-03 22:07:29 UTC
From: Richard Knoppow
Topic: 4384 Message: 4402

```
----- Original Message -----
From: <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, October 03, 2010 9:40 AM
Subject: Re: [DrakeRadio] #47 bulb

>
> Thank you Gary.
>
> Maplins is where I located the lamps so it seems we are on
> course.
>
> Hope I manage to get down to their store - just received a
> severe terror alert here!!
>
> Vic
>
I get one of those every time I get a bank statement.
The story is on the AP wire, more "Look out the boogie man
will get you".

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

4403. Re: [DrakeRadio] File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 01:28:26 UTC
From: Don Cunningham
Topic: 4397 Message: 4403

Welcome aboard, Mac. Lots of good Drake knowledge here, helpful posters and fun group.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4404. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 03:57:31 UTC
From: Paul Pollock
Topic: 4384 Message: 4404

To Garey,

The other thing I have found is that modern #47 bulbs don't seem to be as durable as the old ones. When I sent my TR-4 to Jeff Covelli, he replaced the original bulbs with new ones. They promptly burned out after less than 2-hours run time (Both burned open). Jeff included the old ones. I put those in, and the light has returned permanently <grin>.

Have fun and good luck!

-Paul Pollock
KD7BWB

On Oct 3, 2010, at 7:35 AM, Garey Barrell wrote:

> Vic -
>
> That sounds about right. It's correct electrically, and 9mm is about
> right for the base diameter.
>
> If you end up having to order them, order #755 as they will last
> 'forever' and are completely interchangeable with the #47. 20,000 hour
> life for the #755 vs 3,000 hours for the #47.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Victor wrote:
> > Hi all
> > No supplier this side of the pond seems to know what a #47 bulb is so need to find a substitute. The nearest I can find is 6.3v 150ma with a base dia. of about 9mm. Are those values near enough correct?
> >
> > Vic
> >
> >
> >
>

[Non-text portions of this message have been removed]

4405. Re: [DrakeRadio] #47 bulb

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 04:53:37 UTC
From: Richard Knoppow
Topic: 4384 Message: 4405

----- Original Message -----
From: "Paul Pollock" <pbell3@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, October 03, 2010 8:57 PM
Subject: Re: [DrakeRadio] #47 bulb

> To Garey,
>
> The other thing I have found is that modern #47 bulbs
> don't seem to be as durable as the old ones. When I sent
> my TR-4 to Jeff Covelli, he replaced the original bulbs
> with new ones. They promptly burned out after less than
> 2-hours run time (Both burned open). Jeff included the old
> ones. I put those in, and the light has returned
> permanently <grin>.
>
> Have fun and good luck!
>
> -Paul Pollock
> KD7BWB
>
> On Oct 3, 2010, at 7:35 AM, Garey Barrell wrote:

My SP-600-JX;s wrere lamp burners. I suspect it may be
due to the increase in line voltage in many areas. All these
receivers were designed at a time when the "nominal" 117
volts really was 117, now its closer to 122 in many areas.
One can drop the voltage to the receiver using a tansformer
but its easier to use overvoltage lamps like the one Garey
recommends (actually about an 8Volt lamp) or put a dropping
resistor in the lamp line. The latter was specified in the
military modification work orders for the SP-600-JX so its a
legitimate change. One of my receivers came with it
installed and I installed it in the other. In both cases the
lamp life went from a couple of months to practically
permanent. In general, lowering the voltage to an
incandescent lamp or tube by 5% doubles the life without
reducing brightness much or, in the case of tubes, emission
much.
Now, having said all that your lamps burned out much
too quickly. I would check your line voltage. Do it at
several times during the day because line voltage typically
varies a _lot_.
I have no idea where lamps are made now but I've found
that much stuff now comes from China where its made to very

low standards with low cost being the _only_ objective.
--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4406. Re: File -New Member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 14:43:56 UTC
From: querencias
Topic: 4397 Message: 4406

Welcome, Mac,

I'm Grant, KT6L, in San Diego, CA, retired for 5 years; 1st real receiver I had was a 2B and still have one; have the "B" line, SPR-4, FS-4, and TR-7. These Drake radios are gold.

Also have a Yaesu FT-857D and about half-dozen QRP rigs, also a couple of VHF/UHF HTs.

Was a radio operator in the Army (82nd Airborne and 8th Infantry in Europe).

This list has tremendous knowledge and expertise which I've found helpful more than a couple of times.

73 de Grant

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Welcome aboard, Mac. Lots of good Drake knowledge here, helpful posters and fun group.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4407. TR4C 9mhz osc. adj

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 16:07:58 UTC
From: Dick KF4NS
Topic: 4407 Message: 4407

Where is the best place to measure the 9mhz osc. freq? The method I used before to set it was to inject a sig gen at T-11 and zerobeat. I have a pretty accurate freq counter and would rather do it that way.

I guess I could just test it at pin 1 of V16 but I don't trust my 8db wideband buffer/amp to much.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4408. Re: [DrakeRadio] TR4C 9mhz osc. adj

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 17:55:33 UTC
From: Garey Barrell
Topic: 4407 Message: 4408

Dick -

I pick it up at the arm of the Carrier Balance pot. Any kind of probe
on Pin 1 of V16 will shift the frequency.

Keep in mind that the 'final' setting is made to center it between the
two filters, which may not be exactly 9 MHz. You just have to get it
close enough to be sure it's not set outside of either filter! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Dick KF4NS wrote:
> Where is the best place to measure the 9mhz osc. freq? The method I
> used before to set it was to inject a sig gen at T-11 and zerobeat. I
> have a pretty accurate freq counter and would rather do it that way.
>
> I guess I could just test it at pin 1 of V16 but I don't trust my 8db
> wideband bufffer/amp to much.
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
>
>

4409. Re: TR4C 9mhz osc. adj

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 18:12:24 UTC
From: w1kilofoxtrot
Topic: 4407 Message: 4409

I'm faced with a similar problem at the moment. I just ran the Drake filters on my VNA, and find that the 'center' frequency really wants to be 9.001218 MHz. But, I can't make my carrier oscillator go much above 8.998 MHz. Kind of ruins the frequency response of the USB filter. Of course, my USB filter is trashed anyway, with a deep null right in the middle of the response curve.

I've installed a set of KVG filters for the time being, but they still want a carrier closer to 9 MHz than I can get. The offset also means I can't get enough through the filter to give me any power output on transmit.

I've been using the center of the carrier balance pot for measurements. Make a great test point!

73,
Steve
W1KF

--- In DrakeRadio@...m, Garey Barrell <k4oah@...> wrote:
>
> Dick -
>
> I pick it up at the arm of the Carrier Balance pot. Any kind of probe
> on Pin 1 of V16 will shift the frequency.
>
> Keep in mind that the 'final' setting is made to center it between the
> two filters, which may not be exactly 9 MHz. You just have to get it
> close enough to be sure it's not set outside of either filter! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Dick KF4NS wrote:
> > Where is the best place to measure the 9mhz osc. freq? The method I
> > used before to set it was to inject a sig gen at T-11 and zerobeat. I
> > have a pretty accurate freq counter and would rather do it that way.
> >
> > I guess I could just test it at pin 1 of V16 but I don't trust my 8db
> > wideband bufffer/amp to much.
> >
> > 73, Dick KF4NS
> > St Petersburg, FL 33714 USA

> > Keep The Glow!
> >
> >
> >
>

4410. TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-04 22:09:26 UTC
From: Dick KF4NS
Topic: 4410 Message: 4410

Ok guys, I have this black cloud over me right now. The radio is receiving fine (other than the filter defect) and I decided to get the xmit completely checked out before I wrap it up.

All of a sudden while on 20M band position and checking the PS bias, it jumps intermittently to 400-600ma with no drive, sideband switch in ccw position (actually makes no difference), dummy load connected and no mic or key connected.

After quite a few hours pulling out my hair (just the gray ones) I tweaked the TUNE control and the trouble went away. I tried full ccw and cw and everything in-between on all the other bands and no effect, only affects 20M and only when the TUNE control is between 1 and 6. I checked and rechecked the band switch contacts over and over. What the heck, I even tapped all the tubes and every other silly thing. Given time and a few cups of coffee I can usually make sense of these kind of things but not this time. HELLLLLP!!

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4411. FA: Vintage Drake Ham Gear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 14:47:26 UTC
From: Magus
Topic: 4411 Message: 4411

I have the all the gear from a vintage Ham Shack for auction. Mostly vintage Drake gear. Really super clean and nice.

Drake L - 4 B Linear Amplifier + L-4 PS Power

Drake MN - 2000 Matching Network ~ Ham

Drake R-4C Ham Receiver

Drake T-4XC Transmitter ~ Ham

DRAKE FS4 SYNTHESIZER ~ Ham

Drake MS-4 Speaker + Drake AC-4 Power Supply

CDE Transmit Receive Direction Control ~ Ham

Shure model 444 Base Microphone Ham

Follow the link for photos and a full descriptions of each piece of gear....

http://members.ebay.com/ws/eBayISAPI.dll?ViewUserPage&userid=iam30

Thanks

4412. R4/B/C receiver top and bottom cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 15:09:30 UTC
From: w5rkl
Topic: 4412 Message: 4412

I have an R4C, older version (3 filter selections), that needs the top cover. If you have a top cover or both top and bottom, please let me know. Thanks in advance.

73s
Mike
W5RKL

4413. PS7 Filter caps Source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 14:47:25 UTC
From: captcurt2000
Topic: 4413 Message: 4413

Looking for a source for the Mallory CGR 15000MFD 30V filter caps in my PS7. Non stock at all the regular sources and minimum orders are from 25-80pcs.

Thanks

Curt

4414. Re: TR-4C PTO dial adjustments?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 17:36:30 UTC
From: w1kilofoxtrot
Topic: 4376 Message: 4414

Garey,

In the 'you learn something new each day' department, I offer up the following: in my case, the CO crystal drifted lower with age. By rather a lot, actually. I replaced it today with a crystal Fox was kind enough to send me when I was running down a problem with my old TR-3. It's spot on at 9.000000 MHz, and that is exactly the center of the KVG filters I've temporarily installed in the TR-4C. I'm getting 150W indicated on 80-15 meters, around 100W on 10M, where I was getting 5-10W before, because I was on the slope of the filters. And the sound is lovely. Why not leave them as is? Well, I had plans for the KVGs in a little project I'm building. I think I've found a source for a pair of Drake original filters, so I'll put it back as it was.

But, lest I get too cocky with all this, I also found out that I reversed the filters. That is, the USB filter is where the LSB ought to be, and vice-versa. Works a real treat, but it's all upside down!

Where's that soldering iron got to?

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> Garey,
>
> The good news is that the relay is working as intended; it switches when in CW-X mode, as it should, and shifts the frequency up around 800 Hz or so. It's on receive that it's low.
>
> I think I really can't get much further until I resolve this, since I don't want to peak everything up, and then find I've shifted the center frequency.
>
> I wonder if one of the ceramic capacitors in the area has drifted. I cleaned the chassis mount variable capacitor for the crystal calibrator, but the one for the CO is tougher to get at. Guess I'll just have to give it a whirl!
>
> I am learning this rig in much more detail than the old TR-3s that I had!!
>
> 73,
> Steve
> W1KF
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Steve -

> >
> > You just need three pairs of 'reading' glasses, an Opti-Visor, and
> > several magnifying glasses like I do!! :-)
> >
> > As for your CO problem, clean the contacts of relay K2, (in the CO
> > compartment, on the back wall of the chassis.) Also make sure it
> > operates when you switch modes. Crystals almost always drift HIGH with
> > age, so likely something else.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> > TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > w1kilofoxtrot wrote:
> > > A follow up. Seems my vision is not all that it should be. My PTO does, in fact, have a slotted hole for the idler gears. That means I -can- finagle the gear set in order to line up the two dials.
> > >
> > > My PTO does not have the fancy levers shown in some pictures, but I've gotten it done just the same.
> > >
> > > Yet another step complete!
> > >
> > > Now, I've got to get the carrier oscillator on frequency. It's about 800 Hz too low, so I can't get it centered between the two filters. It would have to be too low, right? I can't just pad it up with some paralleled caps...
> > >
> > > 73,
> > > Steve
> > > W1KF
> > >
> > >
> > >
> > >
> >
>

4415. PU1WJH - Drake TR4 problem - Plate current..,. bottom of scale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 21:06:53 UTC
From: caviloso
Topic: 4415 Message: 4415

HI!

My TR4 has a problem. The plate meter board ever hit the bottom of the scale. I believe the shunt resistor in parallel with the meter must be opened or changed the value. I need to know if the shunt may be the R13* or R452 or another, but I can not find them physically under the chassis. Would like someone can help? Thanks from Rio de Janeiro!

PU1WJH
RICARDO

[Non-text portions of this message have been removed]

4416. Re: [DrakeRadio] PU1WJH - Drake TR4 problem - Plate current..,. bottom of scale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 21:36:35 UTC
From: Garey Barrell
Topic: 4415 Message: 4416

Ricardo -

Actually the shunt is BOTH R45 and R13*. R45 is 2 ohms, and R13* is typically 15 ohms. R45 is the shunt, and R13* is selected to 'calibrate' the meter to read accurately at 100 mA. The two resistors are connected in parallel and both are located on the small board just opposite the feedthrough terminals on the PA shield. It is the board with the large film type capacitor with the white, epoxy end. R45 is just to the right of this cap, and R13* is on the other side of the board.

The usual failure is that these resistors go UP in value, causing the meter to read UP scale.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

caviloso wrote:
> HI!
>
> My TR4 has a problem. The plate meter board ever hit the bottom of the
> scale. I believe the shunt resistor in parallel with the meter must be
> opened or changed the value. I need to know if the shunt may be the R13* or
> R452 or another, but I can not find them physically under the chassis. Would
> like someone can help? Thanks from Rio de Janeiro!
>
> PU1WJH
> RICARDO
>
>

4417. Re: [DrakeRadio] PS7 Filter caps Source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 22:49:11 UTC
From: Dennis Weal
Topic: 4413 Message: 4417

Try this.

http://www.alliedelec.com/search/productdetail.aspx?SKU=8621102

----- Original Message -----
From: captcurt2000
Sent: 10/06/10 10:47 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] PS7 Filter caps Source

Looking for a source for the Mallory CGR 15000MFD 30V filter caps in my PS7. Non stock at all the regular sources and minimum orders are from 25-80pcs.

Thanks

Curt

[Non-text portions of this message have been removed]

4418. TR4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 22:34:52 UTC
From: Dick KF4NS
Topic: 4418 Message: 4418

Please refresh my memory. I prefer to do it with the plate/screen V removal procedure, not the complicated step in the manual, but I forget, do you tune a 10M freq for max output or min plate current in the first step? I already tuned using the max output method and removed power and bled the supply lines but before I remove the voltages I want to be sure I chose the right method.

I believe that the voltages are removed at C75 for screen and the insulated feedthru for HV. Correct me if I am wrong.

thanks and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4419. bad 10M TR4C crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 22:51:40 UTC
From: Dick KF4NS
Topic: 4419 Message: 4419

While trying to set up for the neutralization, I tried to tune up on 29.1mhz and found out that although the 43.6mhz crystal is the newest one in there, receive is dead and of course xmit is the same. All crystal contacts were cleaned and Deoxit applied some time ago. All the other crystals work ok.

Is there a way to test the crystal (and any other crystal) without building an oscillator?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4420. RE: [DrakeRadio] bad 10M TR4C crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-06 23:34:01 UTC
From: Bry Carling
Topic: 4419 Message: 4420

Do you have a grid dip meter?

-----Original Message-----
From: Dick KF4NS <kf4nsradio@...>
Sent: Wednesday, October 06, 2010 6:51 PM
To: DrakeRadio list <DrakeRadio@yahoogroups.com>; drake@...
Subject: [DrakeRadio] bad 10M TR4C crystal

While trying to set up for the neutralization, I tried to tune up on 29.1mhz and found out that although the 43.6mhz crystal is the newest one in there, receive is dead and of course xmit is the same. All crystal contacts were cleaned and Deoxit applied some time ago. All the other crystals work ok.

Is there a way to test the crystal (and any other crystal) without building an oscillator?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

Yahoo! Groups Links

4421. Re: [DrakeRadio] PU1WJH - Drake TR4 problem - Plate current..,. bottom of scale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-07 00:44:40 UTC
From: caviloso
Topic: 4415 Message: 4421

Garey

Thank you so much!

Your help was very good!

I changed R14 (1.5 ohms) and the problem is dead! R14 was open.

Thanks again from Rio de Janeiro!

PU1WJH
RICARDO

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, October 06, 2010 6:36 PM
Subject: Re: [DrakeRadio] PU1WJH - Drake TR4 problem - Plate current..,.
bottom of scale

Ricardo -

Actually the shunt is BOTH R45 and R13*. R45 is 2 ohms, and R13* is
typically 15 ohms. R45 is the shunt, and R13* is selected to
'calibrate' the meter to read accurately at 100 mA. The two resistors
are connected in parallel and both are located on the small board just
opposite the feedthrough terminals on the PA shield. It is the board
with the large film type capacitor with the white, epoxy end. R45 is
just to the right of this cap, and R13* is on the other side of the board.

The usual failure is that these resistors go UP in value, causing the
meter to read UP scale.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

caviloso wrote:
> HI!
>
> My TR4 has a problem. The plate meter board ever hit the bottom of the
> scale. I believe the shunt resistor in parallel with the meter must be
> opened or changed the value. I need to know if the shunt may be the R13*

or
> R452 or another, but I can not find them physically under the chassis.
Would
> like someone can help? Thanks from Rio de Janeiro!
>
> PU1WJH
> RICARDO
>
>

[Non-text portions of this message have been removed]

4422. Re: PS7 Filter caps Source

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-07 14:41:12 UTC
From: captcurt2000
Topic: 4413 Message: 4422

Hi Dennis:

I'm pretty sure those would work...there are many like that to choose from...but the spec on those caps isn't even close to the CGR except in capacity and WV. The CGR's have very low ESR and very high ripple current rating. at least a factor of 3x better than the snap ins.

Of course they are less than 4 buscks also :) and the CGR's are gonna be 30 something IF I can find them somewhere.

I might be forced to make up a mounting board and connection terminal for a set of snap ins in order to get the rig on the air.

Kind of doubt I could find a dozen other guys to order a minimum quantity of fresh OEM exact CGR's for the PS-7s..maybe tho.

Thanks for the suggestion, I might have to go that way in the end.

Curt

KU8L

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> Try this.
>
> http://www.alliedelec.com/search/productdetail.aspx?SKU=8621102
>
>
> ----- Original Message -----
> From: captcurt2000
> Sent: 10/06/10 10:47 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] PS7 Filter caps Source
>
> Looking for a source for the Mallory CGR 15000MFD 30V filter caps in my PS7. Non stock at all the regular sources and minimum orders are from 25-80pcs.
>
> Thanks
>
> Curt
>
>
>
>
> [Non-text portions of this message have been removed]
>

4423. Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 13:58:52 UTC
From: w1kilofoxtrot
Topic: 4423 Message: 4423

Well, the adventure continues. Turns out not all bargains are a good deal...

I wondered where the calibrator signal went on 40M, and I found it, around 10 KHz off. Checked the ultra stable and accurate 21.5 MHz crystal, and found it at 21.488 MHz. That's the second crystal to go low with age. (The 9 MHz carrier oscillator was off too.) The 15M crystal is right on at 35.5 MHz, and the one 10M crystal, which should be at 43, is at 27. Oh, joy...

It looks like I'm in the market for a bunch of TR-4C crystals. I could buy brand new ones, but it would be cheaper to get a new rig :-)

So, if anyone has a TR-4C 'project' that they are ready to give up on, please let me know, on or off list...

I'll be on 80M and 20M with this rig as soon as I re-wire the plug on my good old Turner 454C. As for the rest, well... it's in your hands at the moment!

73,
Steve
W1KF

4424. 4 Line PTO bearing question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 14:10:30 UTC
From: djv5
Topic: 4424 Message: 4424

Have a RV-4C that that the play was so bad the bearing fell out of the race. I have found 5 bearing loose and wondering how many normally are used and is there any place to buy replacements? The second question, what is the best way to get them back in place, I am thinking will need to back off the pressure screw on the back of the threaded shaft and use some type of light grease to hold them in place and then tighten but looking for ideas.

73,
Dave, K8DV

4425. Re: [DrakeRadio] 4 Line PTO bearing question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 14:18:36 UTC
From: Garey Barrell
Topic: 4424 Message: 4425

Dave -

There are ten to start! :-)

They are standard 0.125" (1/8") dia steel ball bearings.

Your local ACE or True Value store should have them in their specialty hardware drawers.

Yes, back off the screw just enough to get them in. Some Lubriplate or White Lithium grease should hold them in place. Tighten the screw only enough to take out the lateral play, don't over-tighten.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

djv5 wrote:
> Have a RV-4C that that the play was so bad the bearing fell out of the race. I have found 5 bearing loose and wondering how many normally are used and is there any place to buy replacements? The second question, what is the best way to get them back in place, I am thinking will need to back off the pressure screw on the back of the threaded shaft and use some type of light grease to hold them in place and then tighten but looking for ideas.
>
> 73,
> Dave, K8DV
>
>
>

4426. Need "dead" TR-7 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 15:58:20 UTC
From: qrpcwop
Topic: 4426 Message: 4426

I'm toying with the idea of building up a plug-in QSK board, so I'm looking for a non-functional relay to make use of the base & pins. Anyone have one in the junk box?

73 - Al, K2ZN

4427. Re: [DrakeRadio] Need "dead" TR-7 relay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 16:11:27 UTC
From: Don Cunningham
Topic: 4426 Message: 4427

Al,
If you don't find a dead one, email me and I'll pull one from one of my parts carcasses. I would want it back, as it might be good, hi, but you could surely use it.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4428. T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 17:13:30 UTC
From: ALAN PHILLIPS
Topic: 4428 Message: 4428

The bandswitch has always been difficult to move. You can hear the phenolic scraping. It has not been cleaned with anything. I installed a new bandshaft last week and lubed the ball bearing with lithium. I noticed that the first wafer metal spacer was bent so I made it parallel to the others. I just about lost it when aligning the crystal switch. So, I gained nothing. I visually tryed to see if the round portion of the phenolic rotates freely,

Can the switch wafers be swollen with age? Has this happened to anyone else besides me? Is there a cure? These wafers are delicate and repositioning them to center the shaft may make things worse. I recentered the first group of bandswitch wafers closest to the panel and re-tighted down the top holding nut and things got worse.

Thanks for your help.
Al KC9YS

[Non-text portions of this message have been removed]

4429. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 17:28:04 UTC
From: Garey Barrell
Topic: 4428 Message: 4429

Hi Al -

The T-4XB BAND switch is always a little hard to move because of the right angle drive.

Some spray 'cleaners' will cause the phenolic wafers to swell, but I'm not aware of any age related swelling.

They will sometimes rub due to the fixed wafer hardware loosening over time. Best way to work on this is to loosen ALL wafers at once, just enough to allow you to move them with a little pressure, and then go through multiple iterations until they all line up at once. It's best to firmly shim the front end of the shaft in the chassis hole to keep it in the same orientation. Usually it's 'natural' position in the hole is the right one, but messing with the various fixed wafers can put slight pressure on the shaft, moving it just enough to screw up the NEXT wafer's position. One thing to check first, are you SURE your new shaft is straight??

I've only seen one unit with this problem that had NOT been 'sprayed', and was able to recover it by going through the above for an hour or so!

Perhaps others have ideas?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> The bandswitch has always been difficult to move. You can hear the phenolic
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> last week and lubed the ball bearing with lithium. I noticed that the first
> wafer metal spacer was bent so I made it parallel to the others. I just about
> lost it when aligning the crystal switch. So, I gained nothing. I visually tryed
> to see if the round portion of the phenolic rotates freely,
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>
> Can the switch wafers be swollen with age? Has this happened to anyone else
> besides me? Is there a cure? These wafers are delicate and repositioning them
> to center the shaft may make things worse. I recentered the first group of
> bandswitch wafers closest to the panel and re-tighted down the top holding nut
> and things got worse.
>
> Thanks for your help.

> Al KC9YS
>
>

4430. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 17:38:32 UTC
From: Garey Barrell
Topic: 4428 Message: 4430

Al -

Sorry, I was thinking of the wrong detent arrangement. The detent is of course at the front. Try to center up the rear-most wafer, it's usually pretty solid from the capacitors, then loosen the rest and align to that.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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> scraping. It has not been cleaned with anything. I installed a new bandshaft
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> wafer metal spacer was bent so I made it parallel to the others. I just about
> lost it when aligning the crystal switch. So, I gained nothing. I visually tryed
> to see if the round portion of the phenolic rotates freely,
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> Can the switch wafers be swollen with age? Has this happened to anyone else
> besides me? Is there a cure? These wafers are delicate and repositioning them
> to center the shaft may make things worse. I recentered the first group of
> bandswitch wafers closest to the panel and re-tighted down the top holding nut
> and things got worse.
>
> Thanks for your help.
> Al KC9YS
>
>

4431. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 17:43:45 UTC
From: ALAN PHILLIPS
Topic: 4428 Message: 4431

Hi Garey:

By rear, you mean to loosen up the rear ceramic wafers to get rid of the overal
binding?

_____
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 8, 2010 12:38:32 PM
Subject: Re: [DrakeRadio] T4XB Bandswitch

Al -

Sorry, I was thinking of the wrong detent arrangement. The detent is of
course at the front. Try to center up the rear-most wafer, it's usually
pretty solid from the capacitors, then loosen the rest and align to that.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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> to see if the round portion of the phenolic rotates freely,
>
>
> Can the switch wafers be swollen with age? Has this happened to anyone else
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> bandswitch wafers closest to the panel and re-tighted down the top holding nut
> and things got worse.
>
> Thanks for your help.
> Al KC9YS
>
>

[Non-text portions of this message have been removed]

4432. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 18:12:18 UTC
From: Garey Barrell
Topic: 4428 Message: 4432

Most likely the rear wafer is OK. Even if the hardware loosens, the cap
leads are stiff enough to hold it in the right place unless someone has
been leaning on it.

The basic idea is you have to get the two ends aligned with each other
and then shift the rest, including the R/A drive, on that line.

73, Garey - K4OAH
Glen Allen, VA

ALAN PHILLIPS wrote:
> Hi Garey:
>
> By rear, you mean to loosen up the rear ceramic wafers to get rid of the overal
> binding?
>
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 8, 2010 12:38:32 PM
> Subject: Re: [DrakeRadio] T4XB Bandswitch
>
>
> Al -
>
> Sorry, I was thinking of the wrong detent arrangement. The detent is of
> course at the front. Try to center up the rear-most wafer, it's usually
> pretty solid from the capacitors, then loosen the rest and align to that.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> ALAN PHILLIPS wrote:
>
>> The bandswitch has always been difficult to move. You can hear the phenolic
>> scraping. It has not been cleaned with anything. I installed a new bandshaft
>> last week and lubed the ball bearing with lithium. I noticed that the first
>> wafer metal spacer was bent so I made it parallel to the others. I just about
>> lost it when aligning the crystal switch. So, I gained nothing. I visually

>> tryed
>> to see if the round portion of the phenolic rotates freely,
>>
>>
>> Can the switch wafers be swollen with age? Has this happened to anyone else
>> besides me? Is there a cure? These wafers are delicate and repositioning them
>> to center the shaft may make things worse. I recentered the first group of
>> bandswitch wafers closest to the panel and re-tighted down the top holding nut
>> and things got worse.
>>
>> Thanks for your help.
>> Al KC9YS
>>
>

4433. Re: [DrakeRadio] bad 10M TR4C crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 20:19:46 UTC
From: Richard Knoppow
Topic: 4419 Message: 4433

----- Original Message -----
From: "Bry Carling" <bcarling@...>
To: <DrakeRadio@yahoogroups.com>; <drake@...>
Sent: Wednesday, October 06, 2010 4:34 PM
Subject: RE: [DrakeRadio] bad 10M TR4C crystal

> Do you have a grid dip meter?
>
>
What technique do you use to test a crystal with a GDO?
I suppose I should know this but somehow don't remember ever
doing it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4434. Re: [DrakeRadio] bad 10M TR4C crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 20:28:24 UTC
From: Garey Barrell
Topic: 4419 Message: 4434

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Bry Carling"<bcarling@...>
> To:<DrakeRadio@yahoogroups.com>;<drake@...>
> Sent: Wednesday, October 06, 2010 4:34 PM
> Subject: RE: [DrakeRadio] bad 10M TR4C crystal
>
>
>
>> Do you have a grid dip meter?
>>
>>
>>
> What technique do you use to test a crystal with a GDO?
> I suppose I should know this but somehow don't remember ever
> doing it.
>
>
>
Most GDP's will oscillate if you plug the crystal into the coil
terminals. Obviously it only works with two pin coil versions, but
that's most of them. Some GDOs have three pin coils for extended range,
and some of those will work also if you get the right two pins!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

4435. Re: [DrakeRadio] bad 10M TR4C crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-08 22:24:40 UTC
From: Richard Knoppow
Topic: 4419 Message: 4435

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 08, 2010 1:28 PM
Subject: Re: [DrakeRadio] bad 10M TR4C crystal

>
>
> Richard Knoppow wrote:
>> ----- Original Message -----
>> From: "Bry Carling"<bcarling@...>
>> To:<DrakeRadio@yahoogroups.com>;<drake@...>
>> Sent: Wednesday, October 06, 2010 4:34 PM
>> Subject: RE: [DrakeRadio] bad 10M TR4C crystal
>>
>>
>>
>>> Do you have a grid dip meter?
>>>
>>>
>>>
>> What technique do you use to test a crystal with a
>> GDO?
>> I suppose I should know this but somehow don't remember
>> ever
>> doing it.
>>
>>
>>
> Most GDP's will oscillate if you plug the crystal into the
> coil
> terminals. Obviously it only works with two pin coil
> versions, but
> that's most of them. Some GDOs have three pin coils for
> extended range,
> and some of those will work also if you get the right two
> pins!
>
>
> 73, Garey - K4OAH
> Glen Allen, VA

I will try this on my Millen GDO. It does have three
pins but only two appear to be used. Actually I have no
idea of what the third pin is for.
```

BTW, I received it without the highest frequency coil, a hairpin type. If anyone on this list has a spare please contact me off list. I can make one but would prefer to have an original if possible.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4436. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 03:40:03 UTC
From: ALAN PHILLIPS
Topic: 4428 Message: 4436

BANDSWITCH REPAIRS SOLVED:

Well, Garey, you will never believe this. I took some 5% deoxit and sprayed some in a container and used a chemtronics foam tip to lightly dab part of the available surface of the contact ring on each wafer. I was only able to clean part of that circle. the amount of liquid on the foam tip was almost nothing when I put some on my hand to check the amount.

Yet, the bandswitch noise is gone and it operates perfectly.

No friction or noise between the detent.

Also, it was good to talk to you on the TX.

73's al kc9ys

From: ALAN PHILLIPS <kc9ys@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 8, 2010 12:43:45 PM
Subject: Re: [DrakeRadio] T4XB Bandswitch

Hi Garey:

By rear, you mean to loosen up the rear ceramic wafers to get rid of the overal binding?

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 8, 2010 12:38:32 PM
Subject: Re: [DrakeRadio] T4XB Bandswitch

Al -

Sorry, I was thinking of the wrong detent arrangement. The detent is of course at the front. Try to center up the rear-most wafer, it's usually pretty solid from the capacitors, then loosen the rest and align to that.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
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ALAN PHILLIPS wrote:
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>tryed
> to see if the round portion of the phenolic rotates freely,
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> Can the switch wafers be swollen with age? Has this happened to anyone else
> besides me? Is there a cure? These wafers are delicate and repositioning them
> to center the shaft may make things worse. I recentered the first group of
> bandswitch wafers closest to the panel and re-tighted down the top holding nut
> and things got worse.
>
> Thanks for your help.
> Al KC9YS
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4437. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 03:50:40 UTC
From: ALAN PHILLIPS
Topic: 4423 Message: 4437

Speaking of the TR4. If I adjust the cap for equal pitch of the "hiss" between both sidebands and its close but not the same, doI have a drifted 9mhg crystal? Is it possible to get it right on?
thanks. kc9ys, al.

From: w1kilofoxtrot <w1kf@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 8, 2010 8:58:52 AM
Subject: [DrakeRadio] Bad crystals in TR-4C

Well, the adventure continues. Turns out not all bargains are a good deal...

I wondered where the calibrator signal went on 40M, and I found it, around 10 KHz off. Checked the ultra stable and accurate 21.5 MHz crystal, and found it at 21.488 MHz. That's the second crystal to go low with age. (The 9 MHz carrier oscillator was off too.) The 15M crystal is right on at 35.5 MHz, and the one 10M crystal, which should be at 43, is at 27. Oh, joy...

It looks like I'm in the market for a bunch of TR-4C crystals. I could buy brand new ones, but it would be cheaper to get a new rig :-)

So, if anyone has a TR-4C 'project' that they are ready to give up on, please let me know, on or off list...

I'll be on 80M and 20M with this rig as soon as I re-wire the plug on my good old Turner 454C. As for the rest, well... it's in your hands at the moment!

73,
Steve
W1KF

[Non-text portions of this message have been removed]

4438. Re: [DrakeRadio] T4XB Bandswitch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 14:08:32 UTC
From: Garey Barrell
Topic: 4428 Message: 4438

Al -

OK. Must have been a much 'softer' scrape than I understood. Again,
some spray cleaners, when they're used like a pressure washer (!) will
take off the natural lubrication of the phenolic switch wafer.

Glad it was (eventually) an easy fix!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> BANDSWITCH REPAIRS SOLVED:
>
> Well, Garey, you will never believe this. I took some 5% deoxit and sprayed some
> in a container and used a chemtronics foam tip to lightly dab part of the
> available surface of the contact ring on each wafer. I was only able to clean
> part of that circle. the amount of liquid on the foam tip was almost nothing
> when I put some on my hand to check the amount.
>
> Yet, the bandswitch noise is gone and it operates perfectly.
>
> No friction or noise between the detent.
>
> Also, it was good to talk to you on the TX.
>
> 73's al kc9ys
>
>
>
>
>
> _____
> From: ALAN PHILLIPS<kc9ys@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 8, 2010 12:43:45 PM
> Subject: Re: [DrakeRadio] T4XB Bandswitch
>
>
> Hi Garey:
>
> By rear, you mean to loosen up the rear ceramic wafers to get rid of the overal

> binding?
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 8, 2010 12:38:32 PM
> Subject: Re: [DrakeRadio] T4XB Bandswitch
>
>
> Al -
>
> Sorry, I was thinking of the wrong detent arrangement. The detent is of
> course at the front. Try to center up the rear-most wafer, it's usually
> pretty solid from the capacitors, then loosen the rest and align to that.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> ALAN PHILLIPS wrote:
>
>> The bandswitch has always been difficult to move. You can hear the phenolic
>> scraping. It has not been cleaned with anything. I installed a new bandshaft
>> last week and lubed the ball bearing with lithium. I noticed that the first
>> wafer metal spacer was bent so I made it parallel to the others. I just about
>> lost it when aligning the crystal switch. So, I gained nothing. I visually
>> tryed
>> to see if the round portion of the phenolic rotates freely,
>>
>>
>> Can the switch wafers be swollen with age? Has this happened to anyone else
>> besides me? Is there a cure? These wafers are delicate and repositioning them
>> to center the shaft may make things worse. I recentered the first group of
>> bandswitch wafers closest to the panel and re-tighted down the top holding nut
>> and things got worse.
>>
>> Thanks for your help.
>> Al KC9YS
>>

4439. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 14:23:47 UTC
From: Garey Barrell
Topic: 4423 Message: 4439

Al -

Close is about as good as it gets. The filter passbands are always a
little different, giving a different 'pink' to the noise.

If you want to play, use a noise generator with one of the PC audio
analyzers such as Spectrogram and then you'll be able to see the passbands.

Of course you can always just plot the filter response by tuning across
the calibrator signal and using a counter to plot the points.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Speaking of the TR4. If I adjust the cap for equal pitch of the "hiss" between
> both sidebands and its close but not the same, doI have a drifted 9mhg crystal?
> Is it possible to get it right on?
> thanks. kc9ys, al.
>
>
>
>

4440. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 14:49:29 UTC
From: ALAN PHILLIPS
Topic: 4423 Message: 4440

Thanks Garey:

Well this morning, my bandswitch turns easyier but not as easy as last nite. the light coating may have dissapated, but the switch is much better. Would you recommend a second light swab of dioxit or let sleeping drakes, (dogs), lie?

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, October 9, 2010 9:23:47 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

Al -

Close is about as good as it gets. The filter passbands are always a little different, giving a different 'pink' to the noise.

If you want to play, use a noise generator with one of the PC audio analyzers such as Spectrogram and then you'll be able to see the passbands.

Of course you can always just plot the filter response by tuning across the calibrator signal and using a counter to plot the points.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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> both sidebands and its close but not the same, doI have a drifted 9mhg crystal?
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> thanks. kc9ys, al.
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>
>
>

[Non-text portions of this message have been removed]

4441. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 16:17:57 UTC
From: Richard Knoppow
Topic: 4423 Message: 4441

----- Original Message -----
From: "ALAN PHILLIPS" <kc9ys@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, October 09, 2010 7:49 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

> Thanks Garey:
>
> Well this morning, my bandswitch turns easyier but not as
> easy as last nite. the
> light coating may have dissapated, but the switch is much
> better. Would you
> recommend a second light swab of dioxit or let sleeping
> drakes, (dogs), lie?
>
You might try a little GC Tunerlub. Also, many years ago Boonton Radio, makers of the famous Q-Meters and also signal generators, experimented to find the best material to coat switch contacts with, the winner was Lubriplate. It had the lowest contact resistance and longest life. Currently Lubriplate is made in several types, I am not sure what it was when the Boonton research was done. Tunerlub is a clear grease, non-conductive. Its used after cleaning with something like Deoxit. I've used it on worn rotary switches which did not stay quiet more than a couple of days after using contact cleaner. After treating with Tunerlub they have stayed quiet for years.
Also, check for binding in the gear coupling of the switches and lubricate the detent mechanism, which on the Drake is, I think, on the back. Light grease is right for this. Shaft bearings should be lubricated with oil since grease will not penetrate into them. Also, use oil on surfaces which do not rub enough to keep grease distributed.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4442. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 16:26:26 UTC
From: Don Cunningham
Topic: 4423 Message: 4442

Alan, I am not near Garey's level of expertise on much of anything, but DeOxit is NOT a lubricant, it is a contact improver. I wouldn't put any more of it on the wafer itself, but maybe some light lubricant of whatever type Garey recommends. He said as much in his post if you read between the lines, saying something like "blasting the contacts with cleaner takes away lubricant". I'm not sure what is made in current production, but there used to be many light lubricants used in TV tuners that might have been appropriate. The key word though is "light application" like you did before.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4443. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 16:29:22 UTC
From: ALAN PHILLIPS
Topic: 4423 Message: 4443

thanks Richard.
Does the tunerlube get placed on the rotary silver contact of the wafer switches?

From: Richard Knoppow <1oldlens1@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, October 9, 2010 11:17:57 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

----- Original Message -----
From: "ALAN PHILLIPS" <kc9ys@sbcglobal.net>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, October 09, 2010 7:49 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

> Thanks Garey:
>
> Well this morning, my bandswitch turns easyier but not as
> easy as last nite. the
> light coating may have dissapated, but the switch is much
> better. Would you
> recommend a second light swab of dioxit or let sleeping
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--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4444. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 16:44:55 UTC
From: Garey Barrell
Topic: 4423 Message: 4444

Al -

I'm not real fond of DeoxiT on phenolic wafers. It's probably ok, but
it's not going to hold up long.

I think I would try a little candle wax (birthday candle) lightly rubbed
on the edges. You could try a little silicone, which might work fine,
but still a little leery of putting any kind of oil on the wafers. I
don't know if they are lubricated in any way when new, but I would guess
a wax if anything.

Have you put a drop of light oil on the bearing through the panel?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Thanks Garey:
>
> Well this morning, my bandswitch turns easyier but not as easy as last nite. the
> light coating may have dissapated, but the switch is much better. Would you
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>
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>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, October 9, 2010 9:23:47 AM
> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
>
>
> Al -
>
> Close is about as good as it gets. The filter passbands are always a
> little different, giving a different 'pink' to the noise.
>
> If you want to play, use a noise generator with one of the PC audio
> analyzers such as Spectrogram and then you'll be able to see the passbands.
>

> Of course you can always just plot the filter response by tuning across
> the calibrator signal and using a counter to plot the points.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
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> ALAN PHILLIPS wrote:
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>> Speaking of the TR4. If I adjust the cap for equal pitch of the "hiss" between
>> both sidebands and its close but not the same, doI have a drifted 9mhg
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> crystal?
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>> Is it possible to get it right on?
>> thanks. kc9ys, al.
>>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4445. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 16:51:03 UTC
From: Garey Barrell
Topic: 4423 Message: 4445

Al -

Looks like I'm a little late to the party! :-)

Richard has some good suggestions. I hadn't thought of Tunerlub, but it's probably ok, applied
SPARINGLY!

I wonder if FaderLube would work? It's designed for pots, rotary and slide, which have phenolic
bases. It cleans and leaves a nice 'lubed' feeling to pots. I may have to try some of that.

Whatever you use, use the absolute minimum. Nothing makes a parts rig like a blown bandswitch!! :-)

>>>>>>>>>>>>>>>>>>>>>>>>

I'm not real fond of DeoxiT on phenolic wafers. It's probably ok, but it's not going to hold up long.

I think I would try a little candle wax (birthday candle) lightly rubbed on the edges. You could
try a little silicone, which might work fine, but still a little leery of putting any kind of oil on
the wafers. I don't know if they are lubricated in any way when new, but I would guess a wax if
anything.

Have you put a drop of light oil on the bearing through the panel?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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>
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> light coating may have dissapated, but the switch is much better. Would you
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, October 9, 2010 9:23:47 AM
> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
>
>
> Al -
>
> Close is about as good as it gets. The filter passbands are always a
> little different, giving a different 'pink' to the noise.
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> analyzers such as Spectrogram and then you'll be able to see the passbands.
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> Of course you can always just plot the filter response by tuning across
> the calibrator signal and using a counter to plot the points.
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
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> ALAN PHILLIPS wrote:
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> crystal?
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>> Is it possible to get it right on?
>> thanks. kc9ys, al.
>>
>>

4446. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 17:05:45 UTC
From: ALAN PHILLIPS
Topic: 4423 Message: 4446

Hi Gary and Hi to all that replyed with good suggestions.
I need to clarify a few things because I may be on the wrong page!

I did not lube or clean any phenolic parts on the bandswitch at all. I used a slightly damp foam tip on the silver round or semi-round rotary contact that is on the phenolic switch, being carful not to get any deoxit on the wafer parts, at all.

So please help me understand, the use of the candle wax or as suggested, the tuner lube, it it to lube the actual silver contacts or is it for the round phenolic part of the switch that rotates with some friction as it turns.
thanks for your help.
73'a al kc9ys

_____
From: Garey Barrell <k4oah@...>
To: DrakeRadio@...m
Sent: Sat, October 9, 2010 11:51:03 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

Al -

Looks like I'm a little late to the party! :-)

Richard has some good suggestions. I hadn't thought of Tunerlub, but it's probably ok, applied

SPARINGLY!

I wonder if FaderLube would work? It's designed for pots, rotary and slide, which have phenolic

bases. It cleans and leaves a nice 'lubed' feeling to pots. I may have to try some of that.

Whatever you use, use the absolute minimum. Nothing makes a parts rig like a blown bandswitch!! :-)

>>>>>>>>>>>>>>>>>>>>>>>>

I'm not real fond of DeoxiT on phenolic wafers. It's probably ok, but it's not going to hold up long.

I think I would try a little candle wax (birthday candle) lightly rubbed on the edges. You could

try a little silicone, which might work fine, but still a little leery of putting any kind of oil on

the wafers. I don't know if they are lubricated in any way when new, but I would guess a wax if

anything.

Have you put a drop of light oil on the bearing through the panel?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, October 9, 2010 9:23:47 AM
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> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
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> ALAN PHILLIPS wrote:

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>> Speaking of the TR4. If I adjust the cap for equal pitch of the "hiss"
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> crystal?
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>> Is it possible to get it right on?
>> thanks. kc9ys, al.
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>>

[Non-text portions of this message have been removed]

4447. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 17:50:48 UTC
From: Garey Barrell
Topic: 4423 Message: 4447

Al -

Ok, two different things!

The candle wax and silicone that I was referring to was for the phenolic wafer rubbing.

For the contacts themselves, DeoxiT works good, but you need a little more of it. A small drop on each fixed contact is best, but of course it's difficult to get to all of them. So a good drop on the ones you can get to, and then exercise the switch to spread it around. I use DeoxiT D100L, which leaves a nice lubrication after cleaning. I think the D5 spray also has lubrication, but with the spray it's hard to get 'just a little'. I used to use the 'spray some in the cap' technique, but the needle applicator is a lot easier. It's possible that the lube is not deposited from the D5, but I think mainly you just need a little MORE... Never thought I'd say that, did ya!?!? If you can get your hands on a syringe, that makes it a lot simpler.

I don't think you can get too much _on the contacts_ , just minimize how much gets onto the phenolic.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
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ALAN PHILLIPS wrote:
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>
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, October 9, 2010 11:51:03 AM
> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
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>
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> Have you put a drop of light oil on the bearing through the panel?
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> 73, Garey - K4OAH
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> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
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>
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>> ALAN PHILLIPS wrote:
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>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

4448. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 21:07:32 UTC
From: Garey Barrell
Topic: 993 Message: 4448

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, B and C
Lines, 2-C / 2-NT and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

4449. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-09 23:16:20 UTC
From: ALAN PHILLIPS
Topic: 4423 Message: 4449

Garey:
Thanks for all the help. I just found a mini-tube of G100L in my toolbox!
I presume that I could put a drop with a small screwdriver on the silver round rotary contact?

73's al kc9ys.

_____
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, October 9, 2010 12:50:48 PM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

Al -

Ok, two different things!

The candle wax and silicone that I was referring to was for the phenolic wafer rubbing.

For the contacts themselves, DeoxiT works good, but you need a little more of it. A small drop on each fixed contact is best, but of course it's difficult to get to all of them. So a good drop on the ones you can get to, and then exercise the switch to spread it around. I use DeoxiT D100L, which leaves a nice lubrication after cleaning. I think the D5 spray also has lubrication, but with the spray it's hard to get 'just a little'. I used to use the 'spray some in the cap' technique, but the needle applicator is a lot easier. It's possible that the lube is not deposited from the D5, but I think mainly you just need a little MORE... Never thought I'd say that, did ya!?!? If you can get your hands on a syringe, that makes it a lot simpler.

I don't think you can get too much _on the contacts_ , just minimize how much gets onto the phenolic.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Gary and Hi to all that replyed with good suggestions.
> I need to clarify a few things because I may be on the wrong page!
>
> I did not lube or clean any phenolic parts on the bandswitch at all. I used a

> slightly damp foam tip on the silver round or semi-round rotary contact that
is
> on the phenolic switch, being carful not to get any deoxit on the wafer parts,
> at all.
>
> So please help me understand, the use of the candle wax or as suggested, the
> tuner lube, it it to lube the actual silver contacts or is it for the round
> phenolic part of the switch that rotates with some friction as it turns.
> thanks for your help.
> 73'a al kc9ys
>
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sat, October 9, 2010 11:51:03 AM
> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
>
>
> Al -
>
> Looks like I'm a little late to the party! :-)
>
> Richard has some good suggestions. I hadn't thought of Tunerlub, but it's
> probably ok, applied
>
> SPARINGLY!
>
> I wonder if FaderLube would work? It's designed for pots, rotary and slide,
> which have phenolic
>
> bases. It cleans and leaves a nice 'lubed' feeling to pots. I may have to
try
> some of that.
>
> Whatever you use, use the absolute minimum. Nothing makes a parts rig like a
> blown bandswitch!! :-)
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>>>>>>>>>>>>>>>>>>>>>>>
> I'm not real fond of DeoxiT on phenolic wafers. It's probably ok, but it's
not
> going to hold up long.
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> I think I would try a little candle wax (birthday candle) lightly rubbed on
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> edges. You could

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> try a little silicone, which might work fine, but still a little leery of
> putting any kind of oil on
>
> the wafers. I don't know if they are lubricated in any way when new, but I
> would guess a wax if
>
> anything.
>
> Have you put a drop of light oil on the bearing through the panel?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
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> ALAN PHILLIPS wrote:
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>> Thanks Garey:
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>> Well this morning, my bandswitch turns easyier but not as easy as last nite.
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>> recommend a second light swab of dioxit or let sleeping drakes, (dogs), lie?
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>> Sent: Sat, October 9, 2010 9:23:47 AM
>> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
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>> Al -
>>
>> Close is about as good as it gets. The filter passbands are always a
>> little different, giving a different 'pink' to the noise.
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>> If you want to play, use a noise generator with one of the PC audio
>> analyzers such as Spectrogram and then you'll be able to see the passbands.
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>> Of course you can always just plot the filter response by tuning across
>> the calibrator signal and using a counter to plot the points.
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>>> Is it possible to get it right on?
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4450. New to the Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-10 01:15:32 UTC
From: mydogchillroy
Topic: 4450 Message: 4450

Hello Everyone,

My name is James (AJ4VP)from Falls Church, VA. I recently took delivery of a R-4B, T-4XB, MS-4 and W-4. I look forward to learning more about Drake radios from my use of the radio and from correspondence with you all. I am in the process of taking stock of what I have, cleaning the equipment and getting it ready for use.

73
James

4451. Re: [DrakeRadio] New to the Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-10 01:28:15 UTC
From: Don Cunningham
Topic: 4450 Message: 4451

Welcome to the group, James. You will find a wealth of information on this group about your Drakes and tube gear in general. If you are new to tube gear, please be careful with the high voltages you will encounter in the service/alignment of it. I too have a "new to me" T4XB/R4B/AC4/MS4 in UPS right now heading to me. One tip I would give is that if the AC4 is original, I would go to the Heathkit Shop (www.heathkitshop.com) and look at their AC4R upgrade kit. The capacitors in the old AC4's are getting old enough that they fail regularly with disastrous results. There are other things to check, but those are CRITICAL.
Again, welcome!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4452. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-10 03:01:01 UTC
From: Garey Barrell
Topic: 4423 Message: 4452

That'll help. Be sure and let it 'dry' before applying power. It's a
'little' flammable!

73, Garey - K4OAH
Glen Allen, VA

ALAN PHILLIPS wrote:
> Garey:
> Thanks for all the help. I just found a mini-tube of G100L in my toolbox!
> I presume that I could put a drop with a small screwdriver on the silver round
> rotary contact?
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> 73's al kc9ys.
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> Sent: Sat, October 9, 2010 12:50:48 PM
> Subject: Re: [DrakeRadio] Bad crystals in TR-4C
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> wafer rubbing.
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> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
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>> [Non-text portions of this message have been removed]
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>> Yahoo! Groups Links
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4453. Nearly Free Ham Band Crystals II

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-11 12:48:51 UTC
From: Bry Carling
Topic: 4453 Message: 4453

Thank you to everyone who responded about the groups of crystals.
They were all sold. I have a few more if anyone is interested, great
for homebrewing and experimenting "AM CW delight" - as follows:

(these will only be sold as groups)

GROUP 1 - hc16 crystals on: 7174, 7185, 7200, 7212, 7244 kHz
Available for $5.00 plus shipping

GROUP 2 - hc16 crystals on: 28444, 28444, 28555, 28735, 28785, 28866,
29011, 29444 kHz
Available for $8.00 plus shipping

GROUP 3 - FT243 crystals on 7073, 7100, 7125, 7140, 7175, 7200, 225,
7244, 7275, 7286 kHz
Available for $12.00 plus shipping

GROUP 4 - FT243 Crystals on 7075, 7100, 7106.7, 7125, 7140, 7173,
7175, 7224, 7275 kHz
Available for $12.00 plus shipping

GROUP 5 - FT243 Crystals on 7073, 7125, 7125, 7140, 7151, 7174, 7175,
7200, 7225, 7300 kHz
Available for $12.00 plus shipping

Contact me off the list via e-mail please...

73 - Brian, AF4K

More crystals at:
http://www.af4k.com/crystals.htm

[Non-text portions of this message have been removed]

4454. Re: [DrakeRadio] Bad crystals in TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 09:52:17 UTC
From: Richard Knoppow
Topic: 4423 Message: 4454

----- Original Message -----
From: "ALAN PHILLIPS" <kc9ys@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, October 09, 2010 9:29 AM
Subject: Re: [DrakeRadio] Bad crystals in TR-4C

> thanks Richard.
> Does the tunerlube get placed on the rotary silver contact
> of the wafer
> switches?
>
Yes, I am not sure if its conductive but it seems to protect the surfaces from corrosion once they have been cleaned with something like Deoxit. The bearing shafts of pots and switches should be lubricated with some sort of light oil beause grease will not penetrate. I am not sure what is in Deoxit but it seems to have a degreaser and a reducing agent. The degreaser will remove lubricant. Most multiple switches have three parts, a shaft and bearing, a detent, the switch contacts or wipers. The shaft bearing needs oil, the detent probably can be lubed with light grease, the switch contacts may need a light grease or no lubricant. They are intended to be self-wiping.
Tuner-Lub was originally intended to be used in the very common Sarkes-Tarzian turret tuners which were almost universally used in TV sets for decades. I've found it keeps switches quiet for much longer than just Deoxit does. It does not seem to damage Bakelite.
I would use caution in putting anything on ceramic insulated switches. Usually they are used in RF circuits where losses must be very low and insulation strength very high. The ceramic at least should probably be clean and dry.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4455. Re: [DrakeRadio] New to the Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 10:03:47 UTC
From: Richard Knoppow
Topic: 4450 Message: 4455

----- Original Message -----
From: "mydogchillroy" <mydogchillroy@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, October 09, 2010 6:15 PM
Subject: [DrakeRadio] New to the Group

> Hello Everyone,
>
> My name is James (AJ4VP)from Falls Church, VA. I recently
> took delivery of a R-4B, T-4XB, MS-4 and W-4. I look
> forward to learning more about Drake radios from my use of
> the radio and from correspondence with you all. I am in
> the process of taking stock of what I have, cleaning the
> equipment and getting it ready for use.
>
> 73
> James
>

Welcome aboard, I have the same rig except for the
speaker. I _very strongly_ advise you to get Garrey Barrel's
CD. It has info you will NOT find anywhere else because
Drake _never supplied it_. Also clean, hi-res, PDF's of the
manuals and schematics.
Check out the AC-4 very carefully, many of them have
tired filter caps. They can cause low voltage and high
ripple. The bias supply can cook the tubes if it fails. If
the caps are tired its best to replace the entire inside
with the kit available from the Heathkit Shop. I did this to
mine. However, despite the warnings about the bias supply
the circuit in the modified version is identical to the old
one.
The rigs will meet specs and perform very well.
I would add to your set-up a good antenna tuner and a
good dummy load and power meter. Also, if you can afford
forty or fifty acres in the country for an antenna farm it
will help.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4456. Re: TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 17:29:29 UTC
From: Dick KF4NS
Topic: 4410 Message: 4456

I sure hope I am not making a nuisance of myself but I am out of ideas and have tried everything that was suggested, including neutralization (which was ok) and have read the manuals for service and owners over and over for hours, and have studied the schematic for hours and hours.

The original message was for a trouble just trying to set the bias which was fine on all bands but 20M. Since then, I have tried to tune up in the X-CW position and all bands tuned fine except for 20M. On 20M I can get a power out of 150W but the plate current is 600ma, the xmit gain dips the plate current (yes, the xmit gain!), the plate tune cap also dips the current but output drops to nothing, the RF tune acts like the xmit gain should.

The only real defect I did find was R53 1.5K in the plate circuit of V11 was cooked. I replaced it.

This rig has been gone completely refurbished recently with bad tubes replaced, all contacts cleaned and contact enhancer applied, 9mhz osc. set right on, 100khz osc set right on. neutralization set on 10M, resoldered the contacts on the rear wafer of bandswitch, C145 replaced, P.S. upgraded to AC4R.

Keep in mind, ALL BANDS RECEIVE FINE AND TRANSMIT FINE except 20M.

Please help, Thanks and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>;
<drake@...>
Sent: Monday, October 04, 2010 6:09 PM
Subject: TR4C weird xmit trouble

> Ok guys, I have this black cloud over me right now. The radio is
> receiving fine (other than the filter defect) and I decided to get
> the
> xmit completely checked out before I wrap it up.
>
> All of a sudden while on 20M band position and checking the PS bias,
> it jumps intermittently to 400-600ma with no drive, sideband switch
> in
> ccw position (actually makes no difference), dummy load connected
> and
> no mic or key connected.

>
> After quite a few hours pulling out my hair (just the gray ones) I
> tweaked the TUNE control and the trouble went away. I tried full ccw
> and cw and everything in-between on all the other bands and no
> effect, only affects 20M and only when the TUNE control is between 1
> and 6. I checked and rechecked the band switch contacts over and
> over.
> What the heck, I even tapped all the tubes and every other silly
> thing. Given time and a few cups of coffee I can usually make sense
> of
> these kind of things but not this time. HELLLLLP!!
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>

4457. Re: [DrakeRadio] Re: TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 18:27:20 UTC
From: Garey Barrell
Topic: 4410 Message: 4457

Dick -

Is this a 'new' transceiver to you? Has it ever worked on 20M to your knowledge? 20M is one of the 'simple' bands, (the other one is 80M,) where Q1, Q2, V1 and V3a are not used at all.

What brand are the final tubes? Are they the same brand?

It sounds like the PA is oscillating. The most common cause is off-brand or mis-matched final tubes. Next is improper neutralization. Next would be a bad bypass cap. There is also a possibility with the TR-4 series of mistuned bandpass transformers. You could remove the PA tubes, or just remove the screen voltage at the third feedthrough from the back on the PA shield under the chassis (C75). Careful, the second one from the back is the HV! Once the PA is disabled, see if you have a correct 20M signal out of the Driver stage (V6).

I suspect if you checked your '20M output', you'd find that it's NOT where you think it is. Does the output peak with the RF TUNE control in approximately the correct place? IF you listen on a separate receiver, is there a signal where the transceiver dial says it is?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
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> Keep The Glow!
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4458. Re: [DrakeRadio] Re: TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 18:28:04 UTC
From: Gary Woods
Topic: 4410 Message: 4458

On Tue, 12 Oct 2010 13:29:29 -0400, you wrote:

>the xmit gain dips the plate current (yes, the xmit gain!), the plate
>tune cap also dips the current but output drops to nothing, the RF
>tune acts like the xmit gain should.

Listen on a nearby receiver (a spectrum analyzer would be icing on the
cake; I don't have one either). I'll bet that the PA is oscillating to
beat the band.

Is this into a dummy load? I dunno why the instability on 20 if elsewhere
is OK.

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

4459. Re: [DrakeRadio] Re: TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-12 19:22:18 UTC
From: k2wh@optonline.net
Topic: 4410 Message: 4459

This may be inconsequential to your 20m issue, but on my Collins gear (which is circuit similar), there is more than 1 place to set the load and plate controls to get output and dip but, they are not set at the optimal position which causes plate current jumps and it only happens on 20m. The description and symptons of your problem very closely matches what happens to my Collins rig.

In other words, you are getting output but your tuning controls are in the wrong position.

K2WH

----- Original Message -----
From: Dick KF4NS
Date: Tuesday, October 12, 2010 1:29 pm
Subject: [DrakeRadio] Re: TR4C weird xmit trouble
To: DrakeRadio list , drake@...

> I sure hope I am not making a nuisance of myself but I am out of
> ideas
> and have tried everything that was suggested, including
> neutralization
> (which was ok) and have read the manuals for service and owners
> over
> and over for hours, and have studied the schematic for hours and
> hours.
>
> The original message was for a trouble just trying to set the
> bias
> which was fine on all bands but 20M. Since then, I have tried to
> tune
> up in the X-CW position and all bands tuned fine except for 20M.
> On 20M I can get a power out of 150W but the plate current is
> 600ma,
> the xmit gain dips the plate current (yes, the xmit gain!), the
> plate
> tune cap also dips the current but output drops to nothing, the
> RF
> tune acts like the xmit gain should.
>
> The only real defect I did find was R53 1.5K in the plate
> circuit of
> V11 was cooked. I replaced it.
>
> This rig has been gone completely refurbished recently with bad
> tubes
> replaced, all contacts cleaned and contact enhancer applied,
> 9mhz osc.

> set right on, 100khz osc set right on. neutralization set on
> 10M,
> resoldered the contacts on the rear wafer of bandswitch, C145
> replaced, P.S. upgraded to AC4R.
>
> Keep in mind, ALL BANDS RECEIVE FINE AND TRANSMIT FINE except 20M.
>
> Please help, Thanks and 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
> ----- Original Message -----
> From: "Dick KF4NS"
> To: "DrakeRadio list" ;
>
> Sent: Monday, October 04, 2010 6:09 PM
> Subject: TR4C weird xmit trouble
>
>
> > Ok guys, I have this black cloud over me right now. The radio is
> > receiving fine (other than the filter defect) and I decided to
> get
> > the
> > xmit completely checked out before I wrap it up.
> >
> > All of a sudden while on 20M band position and checking the PS bias,
> > it jumps intermittently to 400-600ma with no drive, sideband
> switch
> > in
> > ccw position (actually makes no difference), dummy load
> connected
> > and
> > no mic or key connected.
> >
> > After quite a few hours pulling out my hair (just the gray
> ones) I
> > tweaked the TUNE control and the trouble went away. I tried
> full ccw
> > and cw and everything in-between on all the other bands and no
> > effect, only affects 20M and only when the TUNE control is
> between 1
> > and 6. I checked and rechecked the band switch contacts over
> and
> > over.
> > What the heck, I even tapped all the tubes and every other silly
> > thing. Given time and a few cups of coffee I can usually make
> sense
> > of
> > these kind of things but not this time. HELLLLLP!!
> >

> > 73, Dick KF4NS
> > St Petersburg, FL 33714 USA
> > Keep The Glow!
> >
>
>

[Non-text portions of this message have been removed]

4460. TR7 1-kHz tone won't stop

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-13 00:02:09 UTC
From: stanleyjungleib@rocketmail.com
Topic: 4460 Message: 4460

Just fired up an estate item and it has a low-level 1-kHz in the audio even when idling that is unbearable. Seems to warble with the digital display. Anyone see this? operator error (even with the volume all the way down?), or a normal digital bleed for this machine? If so, gimme back my R-4C!

4461. Re: [DrakeRadio] TR7 1-kHz tone won't stop

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-13 00:24:33 UTC
From: Gary Woods
Topic: 4460 Message: 4461

On Wed, 13 Oct 2010 00:02:09 -0000, you wrote:

>Just fired up an estate item and it has a low-level 1-kHz in the audio even when idling that is unbearable.
Certainly NOT normal; probably some of the experts here will have an idea.

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

4462. Re: [DrakeRadio] TR7 1-kHz tone won't stop

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-13 02:00:34 UTC
From: Jim Shorney
Topic: 4460 Message: 4462

On Wed, 13 Oct 2010 00:02:09 -0000, stanleyjungleib@... wrote:

>
>Just fired up an estate item and it has a low-level 1-kHz in the audio even when idling that is unbearable. Seems to warble with the digital display. Anyone see this? operator error (even with the volume all the way down?), or a normal digital bleed for this machine? If so, gimme back my R-4C!

The first thing to do with any "new" TR-7 that is acting strange is to re-seat all the plug-in boards.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4463. Re: TR7 1-kHz tone won't stop

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-13 16:16:13 UTC
From: stanleyjungleib@rocketmail.com
Topic: 4460 Message: 4463

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Wed, 13 Oct 2010 00:02:09 -0000, stanleyjungleib@... wrote:
>
> >
> >Just fired up an estate item and it has a low-level 1-kHz in the audio even when idling that is unbearable. Seems to warble with the digital display. Anyone see this? operator error (even with the volume all the way down?), or a normal digital bleed for this machine? If so, gimme back my R-4C!
>
>
> The first thing to do with any "new" TR-7 that is acting strange is to re-seat
> all the plug-in boards.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://radiojim.exofire.net
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

Found it! Large blue 1000 uF cap at front right of digital readout has a bad joint. Hard for it not to; it obviously hits the inside cover, and got broken down by shipment! Looks like I'll be settling into this one for awhile.

73 WA6LVC

4464. Re: [Drakelist] [Drake] TR4C weird xmit trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-13 21:15:59 UTC
From: Dick KF4NS
Topic: 4464 Message: 4464

RESENDING THIS DUE TO WRONG ORIGINATOR ADDRESS (STUPID ME!)

Garey,
This is not new to me. I acquired it in 1995 after it had been stored in a garage for 10 years. No need to tell the tale, you can just imagine. After a physical cleaning I fired it up and it worked fine. Then this year I decided after getting your CD that it was time to do a real restore which I did. I will never say that was a bad idea since it was not even close to good performance.

20 meters had been working at par for the rest of the bands. The finals are what was in there, Sylvania 6JB6 da ALM marked on them. As tested on my B&K 707, the gm was for V8=9000 V9=9500 V10=10500, for what it is worth.
Neutralization went well using my scope with voltages removed from finals. Will do it over but tune up on 28.0 instead of 29.1 just for a do-over again.

By the way, the schematic you recommended was series 35161 but I discovered yesterday that mine is a match for series 42500 even though mine was built in '74 with serial #38145, go figure. It has those goofy brn/blk/wht/silver bypass caps across IF xfmrs T11/T12. Took quite a while to figure out they were caps and not resistors. Never ever saw those things before.
73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----
> Message: 1
> Date: Tue, 12 Oct 2010 14:27:29 -0400
> From: Garey Barrell <k4oah@...>
> To: drakelist <Drakelist@...>
> Subject: Re: [Drakelist] [Drake] TR4C weird xmit trouble
> Message-ID: <4CB4A891.1080803@...>
> Content-Type: text/plain; charset=ISO-8859-1; format=flowed
>
> Dick -
>
> Is this a 'new' transceiver to you? Has it ever worked on 20M to
> your
> knowledge? 20M is one of the 'simple' bands, (the other one is
> 80M,)
> where Q1, Q2, V1 and V3a are not used at all.
>
> What brand are the final tubes? Are they the same brand?

>
> It sounds like the PA is oscillating. The most common cause is
> off-brand or mis-matched final tubes. Next is improper
> neutralization.
> Next would be a bad bypass cap. There is also a possibility with
> the
> TR-4 series of mistuned bandpass transformers. You could remove the
> PA
> tubes, or just remove the screen voltage at the third feedthrough
> from
> the back on the PA shield under the chassis (C75). Careful, the
> second
> one from the back is the HV! Once the PA is disabled, see if you
> have a
> correct 20M signal out of the Driver stage (V6).
>
> I suspect if you checked your '20M output', you'd find that it's NOT
> where you think it is. Does the output peak with the RF TUNE
> control in
> approximately the correct place? IF you listen on a separate
> receiver,
> is there a signal where the transceiver dial says it is?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Dick KF4NS wrote:
>> I sure hope I am not making a nuisance of myself but I am out of
>> ideas
>> and have tried everything that was suggested, including
>> neutralization
>> (which was ok) and have read the manuals for service and owners
>> over
>> and over for hours, and have studied the schematic for hours and
>> hours.
>>
>> The original message was for a trouble just trying to set the bias
>> which was fine on all bands but 20M. Since then, I have tried to
>> tune
>> up in the X-CW position and all bands tuned fine except for 20M.
>> On 20M I can get a power out of 150W but the plate current is
>> 600ma,
>> the xmit gain dips the plate current (yes, the xmit gain!), the
>> plate
>> tune cap also dips the current but output drops to nothing, the RF

>> tune acts like the xmit gain should.
>>
>> The only real defect I did find was R53 1.5K in the plate circuit
>> of
>> V11 was cooked. I replaced it.
>>
>> This rig has been gone completely refurbished recently with bad
>> tubes
>> replaced, all contacts cleaned and contact enhancer applied, 9mhz
>> osc.
>> set right on, 100khz osc set right on. neutralization set on 10M,
>> resoldered the contacts on the rear wafer of bandswitch, C145
>> replaced, P.S. upgraded to AC4R.
>>
>> Keep in mind, ALL BANDS RECEIVE FINE AND TRANSMIT FINE except 20M.
>>
>> Please help, Thanks and 73, Dick KF4NS
>> St Petersburg, FL 33714 USA
>> Keep The Glow!
>>

4465. R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 16:37:08 UTC
From: Don Cunningham
Topic: 4465 Message: 4465

Garey, and all,
Just got delivery of my "dream" R4B/T4XB station over the past two days. T4XB fired right up and works just fine. R4B has something amiss, and I can't quite put my fingers on it (not literally, hi). Symptoms, while trying 40m, preselector will peak WELL on 80/160 area with just noise, no signals. Where it should "peak" on the 40m segment, you can sort of peak signals if they are there, but it is VERY difficult to peak on background noise there like a "normal" R4B. Strong sounding signals are only S 3 to 5, and from the sound they should be S9+. No cold tubes, have "wiggled" all of them in their bases (pencil and eraser, like the old days, hi) and only the 12BE6, 2nd mixer makes any noise in the receiver. I have taken no voltage measurements as yet. Really need to be outside working on the quad, but you know how it is with a "new toy", hi. Any thoughts appreciated. I probably have enough good tubes to swap one at a time, as I suspect this is a transportation failure. I bought it from a reputable ham that used it often.
73,
Don, WB5HAK

4466. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 16:42:25 UTC
From: Bob Macklin
Topic: 4465 Message: 4466

I had similar problems with my R4A that were cured by cleaning the bandswitch.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 14, 2010 9:37 AM
Subject: [DrakeRadio] R4B Help

Garey, and all,
Just got delivery of my "dream" R4B/T4XB station over the past two days. T4XB fired right up and works just fine. R4B has something amiss, and I can't quite put my fingers on it (not literally, hi). Symptoms, while trying 40m, preselector will peak WELL on 80/160 area with just noise, no signals. Where it should "peak" on the 40m segment, you can sort of peak signals if they are there, but it is VERY difficult to peak on background noise there like a "normal" R4B. Strong sounding signals are only S 3 to 5, and from the sound they should be S9+. No cold tubes, have "wiggled" all of them in their bases (pencil and eraser, like the old days, hi) and only the 12BE6, 2nd mixer makes any noise in the receiver. I have taken no voltage measurements as yet. Really need to be outside working on the quad, but you know how it is with a "new toy", hi. Any thoughts appreciated. I probably have enough good tubes to swap one at a time, as I suspect this is a transportation failure. I bought it from a reputable ham that used it often.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4467. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 16:48:45 UTC
From: Don Cunningham
Topic: 4465 Message: 4467

Thanks, Bob, that's my next trick is "get out the DeOxit bottle", but was hoping for "easy", hi hi. This set is my "keeper", as the copper is near perfect and front panel and case the same.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4468. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 16:50:51 UTC
From: Richard Knoppow
Topic: 4465 Message: 4468

----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 14, 2010 9:37 AM
Subject: [DrakeRadio] R4B Help

> Garey, and all,
> Just got delivery of my "dream" R4B/T4XB station over the
> past two days.
> T4XB fired right up and works just fine. R4B has
> something amiss, and I
> can't quite put my fingers on it (not literally, hi).
> Symptoms, while
> trying 40m, preselector will peak WELL on 80/160 area with
> just noise, no
> signals. Where it should "peak" on the 40m segment, you
> can sort of peak
> signals if they are there, but it is VERY difficult to
> peak on background
> noise there like a "normal" R4B. Strong sounding signals
> are only S 3 to 5,
> and from the sound they should be S9+. No cold tubes,
> have "wiggled" all of
> them in their bases (pencil and eraser, like the old days,
> hi) and only the
> 12BE6, 2nd mixer makes any noise in the receiver. I have
> taken no voltage
> measurements as yet. Really need to be outside working on
> the quad, but you
> know how it is with a "new toy", hi. Any thoughts
> appreciated. I probably
> have enough good tubes to swap one at a time, as I suspect
> this is a
> transportation failure. I bought it from a reputable ham
> that used it
> often.
> 73,
> Don, WB5HAK
>
Does it peak OK on other bands?
Some possibilities, not in order of probability:
Pointer on tuner is in the wrong place
Bad crystal
Tuner out of alignment.
Clean the bandswitch contacts

Work all the screws that make ground contact
If it works on one band its not tubes.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4469. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 16:54:40 UTC
From: Richard Knoppow
Topic: 4465 Message: 4469

```
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 14, 2010 9:50 AM
Subject: Re: [DrakeRadio] R4B Help

>
> ----- Original Message -----
> From: "Don Cunningham" <donc@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, October 14, 2010 9:37 AM
> Subject: [DrakeRadio] R4B Help
>
>
>> Garey, and all,
>> Just got delivery of my "dream" R4B/T4XB station over the
>> past two days.
>> T4XB fired right up and works just fine. R4B has
>> something amiss, and I
>> can't quite put my fingers on it (not literally, hi).
>> Symptoms, while
>> trying 40m, preselector will peak WELL on 80/160 area
>> with
>> just noise, no
>> signals. Where it should "peak" on the 40m segment, you
>> can sort of peak
>> signals if they are there, but it is VERY difficult to
>> peak on background
>> noise there like a "normal" R4B. Strong sounding signals
>> are only S 3 to 5,
>> and from the sound they should be S9+. No cold tubes,
>> have "wiggled" all of
>> them in their bases (pencil and eraser, like the old
>> days,
>> hi) and only the
>> 12BE6, 2nd mixer makes any noise in the receiver. I have
>> taken no voltage
>> measurements as yet. Really need to be outside working
>> on
>> the quad, but you
>> know how it is with a "new toy", hi. Any thoughts
>> appreciated. I probably
>> have enough good tubes to swap one at a time, as I
>> suspect
>> this is a
```

>> transportation failure. I bought it from a reputable ham
>> that used it
>> often.
>> 73,
>> Don, WB5HAK
>>
> Does it peak OK on other bands?
> Some possibilities, not in order of probability:
> Pointer on tuner is in the wrong place
> Bad crystal
> Tuner out of alignment.
> Clean the bandswitch contacts
> Work all the screws that make ground contact
> If it works on one band its not tubes.
>
Also, use the calibrator for checking. It feeds directly
into the antenna input and gives you a signal source
independant of the antenna. Its weaker at high frequencies
but is still quite strong even at 10 meters. There must be a
shorting plug in the mute jack if its not connected to the
TX for the calibrator to work.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4470. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 17:02:33 UTC
From: Don Cunningham
Topic: 4465 Message: 4470

Update, switched to the transmitter VFO and all is well. Signals peak well, transmitter tunes (wouldn't using receive VFO), so I'm on the right track now. Thanks for the ideas. I didn't tell all, I have the transmitter hooked already to the R4B and got the transmitter going with the "spare" R4B last night, so have checked cables, etc. I've been playing with these since about 1975 or so, but just wish the memory was as good as the gear. It lasts, but the memory doesn't, hi.
73 all,
Don, WB5HAK

[Non-text portions of this message have been removed]

4471. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 17:31:43 UTC
From: Garey Barrell
Topic: 4465 Message: 4471

Don -

Either the BAND oscillator or the PTO are not running. When the
Preselector peaks, you're peaking on the 5.645 MHz IF. Tuning the PTO
doesn't change the frequency...

Probably the BAND oscillator. See if you can hear it (18.1 MHz for 40M)
on another receiver. If not, find out why not! Most likely BAND switch
wafer that switches the crystals.

If the BAND oscillator IS working, then the PTO isn't. PTO 5.455 MHZ at
000, 4.955 MHz at 500. Scope or other receiver.

BAND osc at 18.1 MHz, -5.455 (PTO at 000) = 12.645 MHz out of Premixer.
Injected into 2nd Mixer, 7.000 MHz signal from Calibrator = 5.645 MHz IF.

Transmit control in TRANSCEIVE injects Premixer signal at 12.645 MHz
directly into the 2nd Mixer. BAND and PTO not used!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Update, switched to the transmitter VFO and all is well. Signals peak well, transmitter tunes (wouldn't using receive VFO), so I'm on the right track now. Thanks for the ideas. I didn't tell all, I have the transmitter hooked already to the R4B and got the transmitter going with the "spare" R4B last night, so have checked cables, etc. I've been playing with these since about 1975 or so, but just wish the memory was as good as the gear. It lasts, but the memory doesn't, hi.
> 73 all,
> Don, WB5HAK
>
>
>

4472. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 17:45:52 UTC
From: Don Cunningham
Topic: 4465 Message: 4472

Well, Garey, you are right on as always. I replaced V8 with a NOS 6HS6, same problem. Wiggled the xtal/vfo switch on the side and that was it!!! Dirty switch contacts, so all is well. Lesson re-learned. Isolate the problem and KISS (keep it simple stupid, for the new guys, hi). By the transmitter VFO working, I had it isolated, so it was a matter of checking from there. Thanks to all for jogging the old memory. AND, the good ham that sold this to me made a call to let me know he thought it might be the xtal/vfo switch, hi. Still some good ones out there.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4473. Re: Drake Digest, Vol 81, Issue 10

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-14 19:52:37 UTC
From: Dick KF4NS
Topic: 4473 Message: 4473

I DID IT ! I DID IT ! I DID IT! HAPPY DAYS ARE HERE AGAIN! Please excuse my slurred speech but I just finished a bottle of champagne.
hi,hi

I cannot thank all you guys enough for all the great advice. I learned so much about the operation of the Drake TR4C. You can never know too much. Maybe I will be as good with Drake as with Heathkit. One can only hope.

I rechecked everything again, the switch wafer contacts one by one, the vari caps in the finals, all the pots, flushed the neutralization pot with alcohol and spun it around, etc. etc. The 20M output during the trouble was on the exact frequency of the VFO dial.

Then while checking for a firm seating of all tubes in their sockets, I touched V3 6EA8 MIXER/CATHODE FOLLOWER and heard awful static in the speaker. I wiggled the coil under the socket and the same result. Then I inserted my 9-pin socket test adapter and put the tube in that. HOOOOOORAY! All is quiet. I tuned up on all bands and had good output on all bands except 10M using the X-CW position.

I know I read somewhere but cannot locate it now, explaining the xmit output difference in X-CW as opposed to SSB. Can someone explain?

I will now go back and check the CO, carrier balance, neutralization and tweak the V3 pin sockets with my handy dandy stainless steel fine point dental pick and make sure all pin connections are soldered good and maybe for good measure, just resolder them all to make sure.

thanks so much and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----

> Message: 1
> Date: Wed, 13 Oct 2010 17:15:59 -0400
> From: "Dick KF4NS" <kf4nsradio@...>
> Subject: Re: [Drake] [Drakelist] TR4C weird xmit trouble
> To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>,
> <drake@...>, "Drake list at zerobeat"
> <drakelist@...>
> Message-ID: <000e01cb6b1b$d9bb2240$2f01a8c0@HOMEPC>
> Content-Type: text/plain; format=flowed; charset=iso-8859-1;
> reply-type=original
>
> RESENDING THIS DUE TO WRONG ORIGINATOR ADDRESS (STUPID ME!)

>
> Garey,
> This is not new to me. I acquired it in 1995 after it had been
> stored
> in a garage for 10 years. No need to tell the tale, you can just
> imagine. After a physical cleaning I fired it up and it worked fine.
> Then this year I decided after getting your CD that it was time to
> do
> a real restore which I did. I will never say that was a bad idea
> since
> it was not even close to good performance.
>
> 20 meters had been working at par for the rest of the bands. The
> finals are what was in there, Sylvania 6JB6 da ALM marked on them.
> As
> tested on my B&K 707, the gm was for V8=9000 V9=9500 V10=10500, for
> what it is worth.
> Neutralization went well using my scope with voltages removed from
> finals. Will do it over but tune up on 28.0 instead of 29.1 just for
> a
> do-over again.
>
> By the way, the schematic you recommended was series 35161 but I
> discovered yesterday that mine is a match for series 42500 even
> though
> mine was built in '74 with serial #38145, go figure. It has those
> goofy brn/blk/wht/silver bypass caps across IF xfmrs T11/T12. Took
> quite a while to figure out they were caps and not resistors. Never
> ever saw those things before.
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
> ----- Original Message -----
>> Message: 1
>> Date: Tue, 12 Oct 2010 14:27:29 -0400
>> From: Garey Barrell <k4oah@...>
>> To: drakelist <Drakelist@...>
>> Subject: Re: [Drakelist] [Drake] TR4C weird xmit trouble
>> Message-ID: <4CB4A891.1080803@...>
>> Content-Type: text/plain; charset=ISO-8859-1; format=flowed
>>
>> Dick -
>>
>> Is this a 'new' transceiver to you? Has it ever worked on 20M to
>> your
>> knowledge? 20M is one of the 'simple' bands, (the other one is
>> 80M,)
>> where Q1, Q2, V1 and V3a are not used at all.
>>

>> What brand are the final tubes? Are they the same brand?
>>
>> It sounds like the PA is oscillating. The most common cause is
>> off-brand or mis-matched final tubes. Next is improper
>> neutralization.
>> Next would be a bad bypass cap. There is also a possibility with
>> the
>> TR-4 series of mistuned bandpass transformers. You could remove the
>> PA
>> tubes, or just remove the screen voltage at the third feedthrough
>> from
>> the back on the PA shield under the chassis (C75). Careful, the
>> second
>> one from the back is the HV! Once the PA is disabled, see if you
>> have a
>> correct 20M signal out of the Driver stage (V6).
>>
>> I suspect if you checked your '20M output', you'd find that it's
>> NOT
>> where you think it is. Does the output peak with the RF TUNE
>> control in
>> approximately the correct place? IF you listen on a separate
>> receiver,
>> is there a signal where the transceiver dial says it is?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
>> TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Dick KF4NS wrote:
>>> I sure hope I am not making a nuisance of myself but I am out of
>>> ideas
>>> and have tried everything that was suggested, including
>>> neutralization
>>> (which was ok) and have read the manuals for service and owners
>>> over
>>> and over for hours, and have studied the schematic for hours and
>>> hours.
>>>
>>> The original message was for a trouble just trying to set the bias
>>> which was fine on all bands but 20M. Since then, I have tried to
>>> tune
>>> up in the X-CW position and all bands tuned fine except for 20M.
>>> On 20M I can get a power out of 150W but the plate current is
>>> 600ma,
>>> the xmit gain dips the plate current (yes, the xmit gain!), the

>>> plate
>>> tune cap also dips the current but output drops to nothing, the RF
>>> tune acts like the xmit gain should.
>>>
>>> The only real defect I did find was R53 1.5K in the plate circuit
>>> of
>>> V11 was cooked. I replaced it.
>>>
>>> This rig has been gone completely refurbished recently with bad
>>> tubes
>>> replaced, all contacts cleaned and contact enhancer applied, 9mhz
>>> osc.
>>> set right on, 100khz osc set right on. neutralization set on 10M,
>>> resoldered the contacts on the rear wafer of bandswitch, C145
>>> replaced, P.S. upgraded to AC4R.
>>>
>>> Keep in mind, ALL BANDS RECEIVE FINE AND TRANSMIT FINE except 20M.
>>>
>>> Please help, Thanks and 73, Dick KF4NS
>>> St Petersburg, FL 33714 USA
>>> Keep The Glow!
>>>
>
>
>
> ------------------------------
>
> ____
> Drake mailing list
> Home: http://mailman.qth.net/mailman/listinfo/drake
> Help: http://mailman.qth.net/mmfaq.html
> Post: mailto:Drake@...
>
>
> End of Drake Digest, Vol 81, Issue 10
> **********************************

4474. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 02:27:23 UTC
From: Richard Knoppow
Topic: 4465 Message: 4474

----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 14, 2010 10:45 AM
Subject: Re: [DrakeRadio] R4B Help

> Well, Garey, you are right on as always. I replaced V8
> with a NOS 6HS6, same problem. Wiggled the xtal/vfo
> switch on the side and that was it!!! Dirty switch
> contacts, so all is well. Lesson re-learned. Isolate the
> problem and KISS (keep it simple stupid, for the new guys,
> hi). By the transmitter VFO working, I had it isolated,
> so it was a matter of checking from there. Thanks to all
> for jogging the old memory. AND, the good ham that sold
> this to me made a call to let me know he thought it might
> be the xtal/vfo switch, hi. Still some good ones out
> there.
> 73,
> Don, WB5HAK
>
The crystal switch is so obscure that unless you
actually use it it tends to get overlooked. Since it has a
lock tab on it so I suspect most never get excercized.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4475. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 02:45:14 UTC
From: Don Cunningham
Topic: 4465 Message: 4475

You are absolutely right, Richard. Those contacts get corroded over the years, and cause trouble. On the TR4 series, there is a similar switch on the side to hook up an external receiver. Causes the same troubles. I have had the rig on 40m most of the afternoon/evening and enjoying that great Drake sound!!! Now trying to find a microphone all like with it. Two have flunked, several to go, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4476. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 05:02:22 UTC
From: Richard Knoppow
Topic: 4465 Message: 4476

----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 14, 2010 7:45 PM
Subject: Re: [DrakeRadio] R4B Help

> You are absolutely right, Richard. Those contacts get
> corroded over the years, and cause trouble. On the TR4
> series, there is a similar switch on the side to hook up
> an external receiver. Causes the same troubles. I have
> had the rig on 40m most of the afternoon/evening and
> enjoying that great Drake sound!!! Now trying to find a
> microphone all like with it. Two have flunked, several to
> go, hi.
> 73,
> Don, WB5HAK
>
Well, what kind of sound do you want? The filters in the
transmitter are pretty narrow. I tried a number of mics on
my T4BX and find the plain old D-104 works about as well as
any other. I mean the plain-vanilla one without the
amplifier in the base.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4477. Re: [DrakeRadio] R4B Help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 07:42:36 UTC
From: Charles Ring
Topic: 4465 Message: 4477

Years ago i soldered a shorting wire across that switch in all my Drakes.

On 10/14/2010 22:27, Richard Knoppow wrote:
>
>
> ----- Original Message -----
> From: "Don Cunningham" <donc@... <mailto:donc%40martineer.net>>
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Thursday, October 14, 2010 10:45 AM
> Subject: Re: [DrakeRadio] R4B Help
>
> > Well, Garey, you are right on as always. I replaced V8
> > with a NOS 6HS6, same problem. Wiggled the xtal/vfo
> > switch on the side and that was it!!! Dirty switch
> > contacts, so all is well. Lesson re-learned. Isolate the
> > problem and KISS (keep it simple stupid, for the new guys,
> > hi). By the transmitter VFO working, I had it isolated,
> > so it was a matter of checking from there. Thanks to all
> > for jogging the old memory. AND, the good ham that sold
> > this to me made a call to let me know he thought it might
> > be the xtal/vfo switch, hi. Still some good ones out
> > there.
> > 73,
> > Don, WB5HAK
> >
> The crystal switch is so obscure that unless you
> actually use it it tends to get overlooked. Since it has a
> lock tab on it so I suspect most never get excercized.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@... <mailto:dickburk%40ix.netcom.com>
>
>

[Non-text portions of this message have been removed]

4478. TR4C Fix

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 17:01:54 UTC
From: Don Cunningham
Topic: 4478 Message: 4478

Dick,
Remember ALLLLL the stuff you had to do to make it work. I dug my TR4C out of retirement the other day and couldn't get it to transmit :>(, so I may be needing some "expert", recent "been there, done that" opinions!!!! I do run the RV4C with it, and didn't have it plugged in at the time, hummmmmm maybe that was it???? Another day.
73, and congratulations!!!
Don, WB5HAK

[Non-text portions of this message have been removed]

4479. Re: [DrakeRadio] Re: Drake Digest, Vol 81, Issue 10

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 17:38:05 UTC
From: Garey Barrell
Topic: 4473 Message: 4479

Dick -

Congratulations! Always nice when one 'behaves' again.... :-)

The TR-4C works a little differently in CW/TUNE than the T-4X(any).

Essentially the Carrier Oscillator is shifted by about 800-900 kHz to put it within the passband of the LSB filter. A 750 ohm resistor (R72) is inserted in series with the Screen supply for the PA, limiting the Final plate current. The Balanced Modulator is unbalanced by a DC voltage derived from the XMTR GAIN control and the audio oscillator (V2) is fed to the SIDETONE & VOX functions.

The biggest difference is that the audio oscillator is NOT applied to the Balanced Modulator to generate the TUNE signal as in the T-4X(any). The Screen voltage to the PA is also reduced in the TUNE mode, but NOT in the CW mode.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Dick KF4NS wrote:
> I DID IT ! I DID IT ! I DID IT! HAPPY DAYS ARE HERE AGAIN! Please
> excuse my slurred speech but I just finished a bottle of champagne.
> hi,hi
>

4480. Re: testing your crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-15 19:57:12 UTC
From: Dick KF4NS
Topic: 4480 Message: 4480

This may not be the answer for everybody but it worked great for me.

If you have an MFJ antenna analyzer (or other brand) at your beckon call, attach a 50ohm resistor to the center pin of the analyzer and the other end to one side of the crystal and the other side of the crystal to ground on the analyzer.

Tune around the marked frequency of the crystal with the analyzer and when you get in close proximity to the frequency, you will see the SWR meter needle start to do a rapid dance. You are very close, Then very slowly tune for lowest steady SWR and the display will lock on to the crystal frequency as shown on the display.

All of my TR4C crystals read exactly on frequency except for the 21.5mhz which was off by .001mhz. All are fine to use.

You can skip the resistor but it is much harder to find the "dip" in SWR. One bit of advice, if the unit has not been used for a while just spin the tune dial and band switch a few times because those are mechanical switches/pots on the analyzer.

Good luck and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4481. T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 02:06:59 UTC
From: bpierfel
Topic: 4481 Message: 4481

At the point in the T-4XB alignment where one detunes with a screwdriver on a medium Voltage point, I managed to short something.
Fortunately, no harm done.
It seems that I read of a safer way to perform this step of the alignment but I can't find it. Anyone have such info?
tnx
Bob KB8TL

4482. Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 03:41:51 UTC
From: phbjr@aol.com
Topic: 4482 Message: 4482

Looking for a Drake AC-4 power supply in good shape, must be complete & functional even if not re-habbed/re-capped/upgraded. Just need the supply, not the MS-4 to mount it in.

Need something to power up my "new" T-4X.....

73,

Paul, K4MSG

[Non-text portions of this message have been removed]

4483. Re: [DrakeRadio] T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 04:25:35 UTC
From: Richard Knoppow
Topic: 4481 Message: 4483

----- Original Message -----
From: "bpierfel" <kb8tl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 15, 2010 7:06 PM
Subject: [DrakeRadio] T-4XB alignment

> At the point in the T-4XB alignment where one detunes with
> a screwdriver on a medium Voltage point, I managed to
> short something.
> Fortunately, no harm done.
> It seems that I read of a safer way to perform this step
> of the alignment but I can't find it. Anyone have such
> info?
> tnx
> Bob KB8TL
>
Some think it really makes no difference. I've aligned
both ways and I didn't notice much. Its easy to slip and it
can burn up a resistor.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4484. Re: Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 06:44:47 UTC
From: stanleyjungleib@rocketmail.com
Topic: 4482 Message: 4484

--- In DrakeRadio@yahoogroups.com, phbjr@... wrote:
>
> Looking for a Drake AC-4 power supply in good shape, must be complete &
> functional even if not re-habbed/re-capped/upgraded. Just need the supply,
> not the MS-4 to mount it in.
>
> Need something to power up my "new" T-4X.........
>
> 73,
>
> Paul, K4MSG
>
>
> [Non-text portions of this message have been removed]
>
I have one, as clean as it gets. I was going to auction it. Offer? (+ship)
WA6LVC 650 704 3004

4485. Re: [DrakeRadio] Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 12:05:33 UTC
From: K4GM
Topic: 4482 Message: 4485

I've got a spare working fine. Contact me for details. I am in VA
George K4GM

Sent via DROID on Verizon Wireless

-----Original message-----
From: phbjr@...
To: DrakeRadio@yahoogroups.com
Sent: Sat, Oct 16, 2010 03:41:51 GMT+00:00
Subject: [DrakeRadio] Looking for an AC-4

Looking for a Drake AC-4 power supply in good shape, must be complete &
functional even if not re-habbed/re-capped/upgraded. Just need the supply,

not the MS-4 to mount it in.

Need something to power up my "new" T-4X.........

73,

Paul, K4MSG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4486. Re: [DrakeRadio] Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 13:29:20 UTC
From: phbjr@aol.com
Topic: 4482 Message: 4486

Hi George,

Tell me a couple of things:

1) How many rows of cooling vents are in the top and bottom of the cover?

2) Does it have a factory-installed 3-wire power cord or a two-wire cord?

I'm in Loudoun County, so pick-up is definitely an option.

73,

Paul, K4MSG

In a message dated 10/16/2010 8:05:30 A.M. Eastern Daylight Time,
k4gm@... writes:

I've got a spare working fine. Contact me for details. I am in VA
George K4GM

Sent via DROID on Verizon Wireless

-----Original message-----
From: phbjr@...
To: DrakeRadio@yahoogroups.com
Sent: Sat, Oct 16, 2010 03:41:51 GMT+00:00
Subject: [DrakeRadio] Looking for an AC-4

Looking for a Drake AC-4 power supply in good shape, must be complete &
functional even if not re-habbed/re-capped/upgraded. Just need the
supply,

not the MS-4 to mount it in.

Need something to power up my "new" T-4X.....

73,

Paul, K4MSG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4487. TR7 power switch???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 14:18:23 UTC
From: w3crr
Topic: 4487 Message: 4487

So, lately my "backup" TR7 has been demonstrating difficulty in powering up. The on/off switch always activates the PS-7 power supply, but the transceiver itself fails to "light" half the time.

Any ideas?

Many thanks,

Craig
W3CRR

4488. Re: [DrakeRadio] Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 14:18:55 UTC
From: K4GM- George
Topic: 4482 Message: 4488

Two rows of vents with two sets of vents in each row . No vents on top.
AC cable is two-wire. I have not upgraded this AC4. I actually have two
AC4s available. One is S/N 51xxx and the other is S/N 54xxx. I am
reducing my Drake "inventory" . Plan to keep my best C line and one L4B,
I live in Stafford and would be glad to meet you about halfway which I
guess would be Manassas... Let me know if you are interested.
73, George K4GM

phbjr@... wrote:
>
> Hi George,
>
> Tell me a couple of things:
>
> 1) How many rows of cooling vents are in the top and bottom of the cover?
>
> 2) Does it have a factory-installed 3-wire power cord or a two-wire cord?
>
> I'm in Loudoun County, so pick-up is definitely an option.
>
> 73,
>
> Paul, K4MSG
>
>
> In a message dated 10/16/2010 8:05:30 A.M. Eastern Daylight Time,
> k4gm@... <mailto:k4gm%40verizon.net> writes:
>
> I've got a spare working fine. Contact me for details. I am in VA
> George K4GM
>
> Sent via DROID on Verizon Wireless
>
> -----Original message-----
> From: phbjr@... <mailto:phbjr%40aol.com>
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Sent: Sat, Oct 16, 2010 03:41:51 GMT+00:00
> Subject: [DrakeRadio] Looking for an AC-4
>
> Looking for a Drake AC-4 power supply in good shape, must be complete &
> functional even if not re-habbed/re-capped/upgraded. Just need the
> supply,
>
> not the MS-4 to mount it in.
>

> Need something to power up my "new" T-4X.....
>
> 73,
>
> Paul, K4MSG
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>

4489. Re: [DrakeRadio] TR7 power switch???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 14:44:48 UTC
From: Don Cunningham
Topic: 4487 Message: 4489

Craig,
I have one of those with a different problem. The AC supply and rig fan is on ALL the time, while the rig switches on/off normally. Those switches are "unobtainium", unless you have a parts unit or someone has been hoarding them and has not said anything!! I guess we need to figure out how to wire them for continuous on of all functions and use a power strip to do the acutal work.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4490. Re: [DrakeRadio] Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 15:19:42 UTC
From: Don Cunningham
Topic: 4482 Message: 4490

Can anyone shed any light on what the AC-4 power supplies are bringing?? I may rebuild with the AC4R a couple of "parts carcasses" that I have kept for years and use them with my gear. That may leave me with a couple of untouched, good condition supplies that are actually spare. If they are only bringing $50 to $75, I think I will just keep them for the spare transformers they would provide. Transformers even rewound would likely be more than the "bringing price" of the AC-4. Any thoughts?? Also, in your junk, would any of you have the bottom cover for an AC-4 that you would sell?? One of my "carcasses" is missing the bottom cover.
Thanks,
Don, WB5HAK

4491. Re: [DrakeRadio] Re: Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 17:37:29 UTC
From: phbjr@aol.com
Topic: 4482 Message: 4491

Found one locally, thanks.

In a message dated 10/16/2010 2:44:57 A.M. Eastern Daylight Time,
stanleyjungleib@... writes:

--- In DrakeRadio@yahoogroups.com, phbjr@... wrote:
>
> Looking for a Drake AC-4 power supply in good shape, must be complete &
> functional even if not re-habbed/re-capped/upgraded. Just need the
supply,
> not the MS-4 to mount it in.
>
> Need something to power up my "new" T-4X.........
>
> 73,
>
> Paul, K4MSG
>
>
> [Non-text portions of this message have been removed]
>
I have one, as clean as it gets. I was going to auction it. Offer? (+ship)
WA6LVC 650 704 3004

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4492. Re: [DrakeRadio] TR7 power switch???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 17:57:39 UTC
From: Garey Barrell
Topic: 4487 Message: 4492

Which is why I leave mine on 'all the time", and use an external
switched power strip.

Some have claimed to have opened the switch and cleaned the contacts,
but ....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Craig,
> I have one of those with a different problem. The AC supply and rig fan is on ALL the time, while the rig switches on/off normally. Those switches are "unobtainium", unless you have a parts unit or someone has been hoarding them and has not said anything!! I guess we need to figure out how to wire them for continuous on of all functions and use a power strip to do the acutal work.
> 73,
> Don, WB5HAK
>
>

4493. Drake AC-4 - found one

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 18:01:16 UTC
From: phbjr@aol.com
Topic: 4493 Message: 4493

Thanks for those who offered, I found one locally.

Paul, K4MSG

[Non-text portions of this message have been removed]

4494. Re: [DrakeRadio] T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 18:03:27 UTC
From: Garey Barrell
Topic: 4481 Message: 4494

Bob -

Just don't do it! Consensus over the years is that it is not
necessary. The idea is to 'detune' the 'other' winding during alignment
to avoid interaction. Much easier and just as effective to just go back
and forth over the two adjustments a couple of times, and a LOT safer
for the radio and you.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

bpierfel wrote:
> At the point in the T-4XB alignment where one detunes with a screwdriver on a medium
Voltage point, I managed to short something.
> Fortunately, no harm done.
> It seems that I read of a safer way to perform this step of the alignment but I can't
find it. Anyone have such info?
> tnx
> Bob KB8TL
>
>

4495. TR7 power switch? Nope - found it.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 18:50:41 UTC
From: Craig Roberts
Topic: 4495 Message: 4495

Well, it wasn't the power switch after all. It was a dirty "STORE" switch (the useless orphan one I neglected during my "out of the mothballs" DeoxIT spritzing spree). Nevertheless, I've put my rig on a handy, separate switched outlet so I won't have to exercise the aging power switch. I had done this with my old Collins gear, but had thought of the TR7 as being my "new" rig. :-)

73, fellas.
Craig
W3CRR

4496. FS: Large box of Cinch-Jones Connectors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 19:26:26 UTC
From: Bry Carling
Topic: 4496 Message: 4496

FOR SALE: Box of Cinch-Jones Connectors

Approximately 90 pieces, everywhere from 2-pins to 15 pins.
Some are cable-end types, others are chassis mount. Many are
in pairs (M-F) - many of these parts are new, several are used, but all
are in great shape, and they come in very handy around the ham shack.

Will sell the entire box for $40.00 plus $12.00 for USA shipping.

73 - Brian, AF4K

[Non-text portions of this message have been removed]

4497. RE: [DrakeRadio] Looking for an AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-16 22:25:14 UTC
From: Walter Milton
Topic: 4482 Message: 4497

Don,

Would you be willing to sell one of your spare AC-4 transformers? I have an AC-4 with a bad transformer and would like to bring it back to life as a backup. If so please send price + shipping. I live in area code 08105. You can look me up on QRZ.

Thanks,
Walt KA2NJF

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don Cunningham
Sent: Saturday, October 16, 2010 11:20 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Looking for an AC-4

Can anyone shed any light on what the AC-4 power supplies are bringing?? I

may rebuild with the AC4R a couple of "parts carcasses" that I have kept for
years and use them with my gear. That may leave me with a couple of untouched, good condition supplies that are actually spare. If they are only bringing $50 to $75, I think I will just keep them for the spare transformers they would provide. Transformers even rewound would likely be

more than the "bringing price" of the AC-4. Any thoughts?? Also, in your junk, would any of you have the bottom cover for an AC-4 that you would sell?? One of my "carcasses" is missing the bottom cover.
Thanks,
Don, WB5HAK

Yahoo! Groups Links

4498. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-17 21:02:25 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4498

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4499. Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 09:47:33 UTC
From: Victor
Topic: 4499 Message: 4499

Hi all
Have a faulty T4XC following a magnificent display of magic smoke associated with the EHT. Replaced the cooked components but now no transmit.
Have been doing a resistance check and so far odd results. On pin 7 of V's 2, 3 and 7 the handbook chart shows a reading of infinity but on all of the tubes I get a reading of 9meg.
Any ideas, please?

Vic

4500. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 13:40:28 UTC
From: Garey Barrell
Topic: 4499 Message: 4500

Vic -

Those are the cathodes of the three stages and are used to key the transmitter. A single contact on the relay grounds them for transmit.

First, be sure the switches are set as described in the Resistance chart. If those are correct, then you may have a leaky switch wafer, as that lead goes through several switch sections.

You say 'no transmit'. Do you have bias current in TUNE or PTT closed? Can you hear the low level signal in the receiver?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi all
> Have a faulty T4XC following a magnificent display of magic smoke associated with the EHT. Replaced the cooked components but now no transmit.
> Have been doing a resistance check and so far odd results. On pin 7 of V's 2, 3 and 7 the handbook chart shows a reading of infinity but on all of the tubes I get a reading of 9meg.
> Any ideas, please?
>
> Vic
>
>

4501. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 17:28:06 UTC
From: g4jss@tiscali.co.uk
Topic: 4499 Message: 4501

Gary
Will come back to you on that. I had the correct EHT and standing current but the standing current has now gone. Also, and here's an odd
ball, if I turn the pre-select anti clockwise the meter lamp goes out - turn it clockwise and it comes back on !! No dimming in between
just on/off. I appreciate that the pre-select control is just about immediately in front of the meter lamp and if I had a bad contact on
the lamp holder that a bit of movement may make/break the cct but that isn't the case the lamp is definitely being switched by the pre-
select.

Interesting that you should mention the relay, I have just changed that. I took the relay from my other T4XC (which works fine) and tried
it in the duff one = still no good.

Am going to do a bit more fiddling and measuring and see what happens.

In my distant memory I seem to recall that you once said ' this is fun!!'

Cheers, Gary

Vic

4502. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 17:44:29 UTC
From: Garey Barrell
Topic: 4499 Message: 4502

Vic -

Ahhh, the plot thickens..... Losing the BIAS current ALSO says that the 'transmit' (Pin 7 of V2, 3 and 7) bus is NOT being grounded by the relay. These pins, AND the return for the PA cathodes are all grounded by a single relay contact. So you're looking in the right area. You can try just grounding any of those Pin 7's in TUNE mode and see if you then get idle current and output if you increase the GAIN control. Check the ground connection on the relay board.

I suspect your meter lamp problem is that the Preselector rack is shorting out the bulb. It's not blowing the fuse, because the bulbs in the T-4XC are each driven from 12 VAC via a 39 ohm, 2W resistor. It won't do that resistor any good! :-) These resistors are on Board 6.

"We do this for fun ..." "We do this for fun ..."

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Gary
> Will come back to you on that. I had the correct EHT and standing current but the standing current has now gone. Also, and here's an odd
> ball, if I turn the pre-select anti clockwise the meter lamp goes out - turn it clockwise and it comes back on !! No dimming in between
> just on/off. I appreciate that the pre-select control is just about immediately in front of the meter lamp and if I had a bad contact on
> the lamp holder that a bit of movement may make/break the cct but that isn't the case the lamp is definitely being switched by the pre-
> select.
>
> Interesting that you should mention the relay, I have just changed that. I took the relay from my other T4XC (which works fine) and tried
> it in the duff one = still no good.
>
> Am going to do a bit more fiddling and measuring and see what happens.
>
> In my distant memory I seem to recall that you once said ' this is fun!!'
>
> Cheers, Gary
>

>
>
> Vic
>
>

4503. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 18:02:43 UTC
From: Don Cunningham
Topic: 4499 Message: 4503

Alright, Vic, I give up. Even Google didn't find anything close, so what in the heck is EHT??? The East Holland Tunnel or Extremely High Voltage (neither of which do I wish to have in my T4XC, hi).
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4504. Carrier Oscillator Adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 18:07:55 UTC
From: Don Cunningham
Topic: 4504 Message: 4504

Garey,
I have met the enemy, and it was me!!! I think I got it finally, this time around. I took my "working T4XB" and put it through your proceedure. Worked just like advertised and I could hear good results in a monitor receiver. Then I tried the "non-working" T4XB (I cheated and put C2 about where the working one came out). The rig only required minimal touchup of C2 to get it balanced, and it sounds MUCH better on the monitor receiver. I'll try it tonight on the air and get some reports. Sure wish some of you guys were around to give me some on air checks!!!!!!!! And, no, I haven't been outside yet, Garey. I just can't clear the mind till something is fixed, hi.
73,
Don, WB5HAK

4505. Re: [DrakeRadio] Carrier Oscillator Adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 18:15:20 UTC
From: Garey Barrell
Topic: 4504 Message: 4505

Hey, whatever works! :-)

On some transmitters it is possible to get the CO on the 'outside' of
the filters instead of 'between' them. Should be real close to 5.645 MHz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
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> around. I took my "working T4XB" and put it through your proceedure.
> Worked just like advertised and I could hear good results in a monitor
> receiver. Then I tried the "non-working" T4XB (I cheated and put C2 about
> where the working one came out). The rig only required minimal touchup of
> C2 to get it balanced, and it sounds MUCH better on the monitor receiver.
> I'll try it tonight on the air and get some reports. Sure wish some of you
> guys were around to give me some on air checks!!!!!!!!! And, no, I haven't
> been outside yet, Garey. I just can't clear the mind till something is
> fixed, hi.
> 73,
> Don, WB5HAK
>
>

4506. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 18:43:23 UTC
From: g4jss@tiscali.co.uk
Topic: 4499 Message: 4506

Hi
Let me put it this way, you won't need Google if you touch it!! You were near enough with extremely or extra high tension. Or, as I have
done on one or two occasions, renamed it ' You b-----d ' as I'm hopping around the shack.
Vic

4507. Re: [DrakeRadio] Resistance readings on T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 19:11:41 UTC
From: Don Cunningham
Topic: 4499 Message: 4507

I understand, Vic, hi. Once in an old SSTV converted oscilloscope, I swear I saw the picture on the inside of my eyeballs when I touched the wrong spot on the back, hi. The "good old days". Just couldn't resist asking that one. Good luck with your troubleshooting!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4508. Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 19:20:49 UTC
From: Don Cunningham
Topic: 4508 Message: 4508

Kris and other interested ones,
Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play 8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4509. Re: [DrakeRadio] Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-18 19:38:22 UTC
From: Kris Merschrod
Topic: 4508 Message: 4509

Tuesday evening will work for me or Wednesday and should be after sunset you time. 0100 to 0200 GMT will work for me.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Don Cunningham
To: Kris Merschrod ; DrakeRadio@yahoogroups.com
Sent: Monday, October 18, 2010 3:20 PM
Subject: [DrakeRadio] Drake Twins 40m Sked Tonight

Kris and other interested ones,
Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play 8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4510. Re: [DrakeRadio] Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 01:01:09 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4510

Hi Kris,
Long time. Can I listen in?
Let me know when your sked is set for. Thanks ahead of time.
Bob N3JQD

_____
Get Free Email with Video Mail & Video Chat!
http://www.juno.com/freeemail?refcd=JUTAGOUT1FREM0210

4511. Re: [DrakeRadio] Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 01:57:35 UTC
From: Don Cunningham
Topic: 4508 Message: 4511

Don't just listen in, Bob, please join in. The more Drakesters the merrier,
hi.
73,
Don, WB5HAK

4512. Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 14:43:46 UTC
From: PaulG
Topic: 4508 Message: 4512

Don and others let us know the Freq and Time and I will listen in the 'Twins' need an end of summer test. Temp goes down and the Tubes come back on!

Paul K3PG
http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Kris and other interested ones,
> Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play 8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4513. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 16:11:43 UTC
From: Kris Merschrod
Topic: 4508 Message: 4513

The idea is to be on 7.165 MHz from 0100 UTC until 0200 UTC.

If that FRQ is busy, then the first arivals should try to stay close. Later arrivals will have to listen carefully and jump in.

Don has a few Mics to try too.

Let's see what propagation brings to us. :>)

73,

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: PaulG
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 10:43 AM
Subject: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Don and others let us know the Freq and Time and I will listen in the 'Twins' need an end of summer test. Temp goes down and the Tubes come back on!

Paul K3PG
http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Kris and other interested ones,
> Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play 8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4514. Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 16:33:33 UTC
From: Larry J
Topic: 4508 Message: 4514

I guess putting the sked in the Extra Class area of the band weeds out us common General folk?

4515. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 16:37:15 UTC
From: William Houghton
Topic: 4508 Message: 4515

and 40m keeps me out since I don't have a 40m antenna.

From: Larry J <larrysjacobs@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, October 19, 2010 9:33:33 AM
Subject: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

I guess putting the sked in the Extra Class area of the band weeds out us common General folk?

[Non-text portions of this message have been removed]

4516. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 16:41:19 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4516

Hi Kris,
I'll try to get on around 8:30pm. If you guys are really far off of that freq, could you give me an email with the current freq?

Hope to hear you tonight. I'll fire up the Twins. (I have to be careful when I euphemistically say 'fire' with regards to my Drakes.)
Bob

My Credit Scores- Free
Click Here to See Your 3 FREE Credit Scores Now!
http://thirdpartyoffers.juno.com/TGL3141/4cbdca923155a37d685st05vuc

4517. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 17:07:12 UTC
From: Don Cunningham
Topic: 4508 Message: 4517

Well, I guess, although I am retired, I need to keep a calendar. I had forgotten yet another committment I need to make and may not make it back by 0100. Please, any of you that can make it, go ahead without me. I will join in if we make it back in time.

My original need was asking a Drakester to help me check out the audio on a set of Drake B twins that I had recieved a week ago. I had been getting "high pitched, no lows, pinched audio" reports, but wanted someone used to tuning in signals to give a listen. I find that MANY of the hams nowadays expect you to be absolutely on frequency, and will even chastise you if you are not on an even 0 or 5!!!! Oh well, anyway, I wanted someone who actually could tune to a calling station, hi. After doing the carrier oscillator adjustment a couple of times, with a couple of different methods, I have pretty well decided that one or both of the the crystal filters is defective, causing the bad audio reports. I didn't want to subject all of you to that bad sound, so had put the C Line back on line for the sked. My wife saw Kris' message and asked me what time 0100 to 0200 tonight was, and told me I wouldn't be here likely :-(. Since this has kind of taken on a life of its own, please meet if you can and enjoy each other's company. I will try again Wednesday night at the same time, same frequency, so you can try two nights in a row if you like.

I have found set of filters a nice ham has given me the option to try, then pay if they work!! May be able to bring the old girl back to life after all. I probably would have "canabalized" the other T4XB if I had to, as this set of twins has the nicest copper I have EVER seen on one, and I've owned these off and on since about 1976 or so!!! Anyway, thanks to the group for all your support. I'll keep you posted on results. Garey has given me a test method for filters off line, and I'll give that a try so I can look at all of these ways of fixing my rig.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4518. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 17:12:28 UTC
From: Don Cunningham
Topic: 4508 Message: 4518

Not at all, Larry, did I do that?? I just told Kris where I had been hanging out, sorry about that. This started innocently, asking for help from some ONE on here and has kind of taken on its own life, hi. Sure, let's move it up some, Kris, how about 7180 or so if there isn't a DX net or something there. I've been running into that stuff higher, that's why I went down some. I really don't pay attention to that "extra" stuff, since I'm an old, ancient Advanced class, hi. I do have to watch 80m as I can get into trouble there and not realize it. If that's not a good frequency, name one and I'll be there Wednesday. Hope you all enjoy tonight.
73,
Don

[Non-text portions of this message have been removed]

4519. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 18:11:12 UTC
From: N9JCQ@aol.com
Topic: 4508 Message: 4519

I think I'll fire up the B-line and listen for you guys, assuming I can get home early enough from work.
Joe, N9JCQ Chicago

-----Original Message-----
From: Kris Merschrod <kris@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Oct 19, 2010 11:11 am
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

The idea is to be on 7.165 MHz from 0100 UTC until 0200 UTC.

If that FRQ is busy, then the first arivals should try to stay close. Later arrivals will have to listen carefully and jump in.

Don has a few Mics to try too.

Let's see what propagation brings to us. :>)

73,

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: PaulG
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 10:43 AM
Subject: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Don and others let us know the Freq and Time and I will listen in the 'Twins' need an end of summer test. Temp goes down and the Tubes come back on!

Paul K3PG
http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Kris and other interested ones,
> Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play 8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
> 73,
> Don, WB5HAK

>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4520. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 18:35:05 UTC
From: Kris Merschrod
Topic: 4508 Message: 4520

Let's shoot for between 7.180 and 7.190? tomorrow Wednesday starting at 0100 UTC. This evening I will check to see if there are any nets or what have you in there. If anyone else can make it tonight let's give a shout.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 1:12 PM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Not at all, Larry, did I do that?? I just told Kris where I had been hanging out, sorry about that. This started innocently, asking for help from some ONE on here and has kind of taken on its own life, hi. Sure, let's move it up some, Kris, how about 7180 or so if there isn't a DX net or something there. I've been running into that stuff higher, that's why I went down some. I really don't pay attention to that "extra" stuff, since I'm an old, ancient Advanced class, hi. I do have to watch 80m as I can get into trouble there and not realize it. If that's not a good frequency, name one and I'll be there Wednesday. Hope you all enjoy tonight.
73,
Don

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4521. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 19:00:55 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4521

Ah, Wed. is better for me too.
But, it seems that there may be a crowd gathering according to the Drakelist.

Bob

Obama Urges Homeowners to Refinance
If you owe under $729k you probably qualify for Obama's Refi Program
http://thirdpartyoffers.juno.com/TGL3141/4cbdeaf944eb53ac934st01vuc

4522. Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 19:11:00 UTC
From: W6IDS
Topic: 4508 Message: 4522

Hey Kris!

This is a neat idea, Sir! I'm assuming this will be only for Advanced
and Extras - someone might want to make that clear.

Howard W6IDS
Richmond, IN EM79NV

----- Original Message -----
From: Kris Merschrod
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 12:11 PM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

The idea is to be on 7.165 MHz from 0100 UTC until 0200 UTC.

If that FRQ is busy, then the first arivals should try to stay close. Later arrivals will
have to listen carefully and jump in.

Don has a few Mics to try too.

Let's see what propagation brings to us. :>)

73,

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: PaulG
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 10:43 AM
Subject: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Don and others let us know the Freq and Time and I will listen in the 'Twins' need an end
of summer test. Temp goes down and the Tubes come back on!

Paul K3PG
http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Kris and other interested ones,
> Thanks for the response. I had forgotten that I have to go see my "adopted grandson" play
8 man football from 6:00 CDT (2300 GMT) to ??? so tonight may not work. I should be home

prior to 10 pm CDT (0300 GMT), but that makes it late for the rest of the country. What time is "radio over, lights out" Kris?? Tomorrow or Wednesday might be better.
> 73,
> Don, WB5HAK

[Non-text portions of this message have been removed]

4523. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 19:13:35 UTC
From: Don Cunningham
Topic: 4508 Message: 4523

Thanks for taking this on, Kris. Sorry I made a mess and left it to you, hi. Who knows, it might even dust off a few old Drakes!!! I intend to start checking in to the established nets, this is just the first time I have had a chance of doing it. I am working from a 160m dipole here, so will drop that and shorten it to 40m for these experiments.
73, and thanks again for the patience and help, Kris!!
Don, WB5HAK

[Non-text portions of this message have been removed]

4524. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 19:25:12 UTC
From: W6IDS
Topic: 4508 Message: 4524

<GRIN> Hi Kris!

You never know how this stuff is handled. It would not have been surprising at all to see the activity totally focused on Advanced and Extras. That's what has happened with the Digi-SSTV and the likes of EasyPal - other than 14.233, the Digi-SSTV mode is strictly under the influences of the Advanced Ham.

I was beginning to think that this would be the case for the "Twis" night since no one raised the question regarding the frequency.

Anyway, all's well. Hope the idea takes root.

Many Regards,

Howard W6IDS
Richmond, IN EM79NV

----- Original Message -----
From: Kris Merschrod
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 2:35 PM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Let's shoot for between 7.180 and 7.190? tomorrow Wednesday starting at 0100 UTC. This evening I will check to see if there are any nets or what have you in there. If anyone else can make it tonight let's give a shout.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, October 19, 2010 1:12 PM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Tonight

Not at all, Larry, did I do that?? I just told Kris where I had been hanging out, sorry about that. This started innocently, asking for help from some ONE on here and has kind of taken on its own life, hi. Sure, let's move it up some, Kris, how about 7180 or so if there isn't a DX net or something there. I've been running into that stuff higher, that's why I went down some. I really don't pay attention to that "extra" stuff, since I'm an old, ancient Advanced class, hi. I do have to watch 80m as I can get into trouble there and not realize it. If that's not a good frequency, name one and I'll be there Wednesday. Hope you

all enjoy tonight.
73,
Don

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4525. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 19:35:50 UTC
From: Don Cunningham
Topic: 4508 Message: 4525

In the first place, Kris is NOT responsible for suggesting the frequency, it was me. I looked for several nights, not finding a really clear frequency EXCEPT that one that is where I have been operating lately. I have been an Advanced class ham since 1972 or 73, really don't remember now, but I only look on the charts as to where I can operate, and don't pay much attention to the rest, unfortunately, I guess.. I don't knowingly "discriminate" , but just mentioned casually to Kris that we try that frequency since it had been relatively clear for a few nights. From that, since the reply to is to the list, this simple meeting of two hams has grown. My apologies for the frequency chosen, but I bet you will be stepping on long established net toes in the 7180 to 7200 range!!!! I sure found it so, but heck, let's try. Dust off the old rigs and have fun. No limitations were intended by me, I just wanted to try out a few microphones I have sitting around and use the one that works the best originally with my B line, now the C line, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4526. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 22:27:20 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4526

Hey Kris,
I will be able to make it tonight also.
Are you still going to try?
Let me know.
I'll be home tonight afterall.
Your friend with the flaming Drakes,
Bob N3JQD

_____
SHOCKING: 2010 Honda Civic for $1,734.09
SPECIAL REPORT: High ticket items are being...
http://thirdpartyoffers.juno.com/TGL3141/4cbe1b963d1d6332f71st06vuc

4527. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 22:38:04 UTC
From: Kris Merschrod
Topic: 4508 Message: 4527

Yes, Bob,

At the moment I am monetoring Ch 5 listening for the PJ7E but in 1.5 hours
I will go to the Drakes at 7.180 and up slightly. Let's light up the tubes
:>)

There is an OZ1DPR on and I am going to give him a call.

Kris

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: <bobsalmon@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, October 19, 2010 6:27 PM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn
7.180 & 7.190 starting 0100 UTC

> Hey Kris,
> I will be able to make it tonight also.
> Are you still going to try?
> Let me know.
> I'll be home tonight afterall.
> Your friend with the flaming Drakes,
> Bob N3JQD
>
> _____
> SHOCKING: 2010 Honda Civic for $1,734.09
> SPECIAL REPORT: High ticket items are being...
> http://thirdpartyoffers.juno.com/TGL3141/4cbe1b963d1d6332f71st06vuc
>
>
> ---
>
> Yahoo! Groups Links
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>
>

4528. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 23:06:57 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4528

Kris,
I heard intelligible sounds emanating from my speaker on 15M tonight and on 10M !!! What does this mean, I'm scared?
I never saw my dial go so 'high in freq" before. I thought that I made a russian contact on 15m, but, he was stateside living in Louisiana now. He tricked me. :(
Bob

_____
SHOCKING: 2010 Honda Civic for $1,732.09
BREAKING NEWS: High ticket items are being auctioned for an incredible 90% off!
http://thirdpartyoffers.juno.com/TGL3141/4cbe24f0966243348ecst06vuc

4529. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-19 23:10:54 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4529

Kris,
Check out 15m and 10m tonight. As there are sounds emanating from my speaker which actually sound like human voices!
I'm scared, does this mean the bands might 'really' be opening?

I've been waiting so long for the sunspots to occur that I've got sunspots on my skin. i.e I'm aging waiting so long...

Bob N3JQD

SHOCKING: 2010 Honda Civic for $1,732.09
BREAKING NEWS: High ticket items are being auctioned for an incredible 90% off!
http://thirdpartyoffers.juno.com/TGL3141/4cbe25a780ca2331570st04vuc

4530. RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 00:29:37 UTC
From: Brenton Crowhurst
Topic: 4508 Message: 4530

I'm sure it was an artefact related to listening through vacuum tubes.

;-)

I don't think my TR7 has this "problem."

Brenton VE6IE

Kris,
I heard intelligible sounds emanating from my speaker on 15M tonight and on 10M !!! What does this mean, I'm scared?
I never saw my dial go so 'high in freq" before. I thought that I made a russian contact on 15m, but, he was stateside living in Louisiana now. He tricked me. :(
Bob

SHOCKING: 2010 Honda Civic for $1,732.09
BREAKING NEWS: High ticket items are being auctioned for an incredible 90% off!
http://thirdpartyoffers.juno.com/TGL3141/4cbe24f0966243348ecst06vuc

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Yahoo! Groups Links

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4531. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 12:44:30 UTC
From: Don Cunningham
Topic: 4508 Message: 4531

Kris,
What did you find in the experiment between 7.180 and 7.190?? As I suspected, it was about 0250 when I got home :-(
I'll be there tonight.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4532. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 16:43:06 UTC
From: Kris Merschrod
Topic: 4508 Message: 4532

Godo afternoon Don,

Well, it was busy, but at 7.180 I had a clear freq for 20 -30 minutes, but then some DX station must have announced "listening up" and so state side stations started transmitting between 180 and 185. But let's give it a try.

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, October 20, 2010 8:44 AM
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Kris,
What did you find in the experiment between 7.180 and 7.190?? As I suspected, it was about 0250 when I got home :-(
I'll be there tonight.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4533. Re: TR4C repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 17:05:39 UTC
From: Dick KF4NS
Topic: 4533 Message: 4533

For the moment I will not say much, just a request before anything further. I am trying to keep my cool.

Would someone please try something for me on a good working TR4C?

Connect a dummy load, no mic no key plugged in.
Set the VFO for 14.260mhz and tune up for max power out as read on a decent wattmeter (not relative power on the S meter).
Use the X-CW mode and SIDEBAND X.

Then let me know the XMIT GAIN clock position, the PLATE, RF TUNE and LOAD numerical knob setting, output watts and plate current.

I am trying to maintain my sanity but not sure how long I can last.
Enough for now.

Thanks and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4534. Re: T-4XB alignment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 17:30:04 UTC
From: bpierfel
Topic: 4481 Message: 4534

Thanks for help!
>

4535. Re: [DrakeRadio] Re: TR4C repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 19:18:41 UTC
From: Kris Merschrod
Topic: 4533 Message: 4535

Dick, I ate lunch and went to the shed to pick up some parts - got distracted by othere "projects" and now I have to go off to a meeting, but I will be tuning up this evening. Will that time table suit you oir has someone else beat me to it?

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Dick KF4NS
To: DrakeRadio list ; drake@...
Sent: Wednesday, October 20, 2010 1:05 PM
Subject: [DrakeRadio] Re: TR4C repairs

For the moment I will not say much, just a request before anything further. I am trying to keep my cool.

Would someone please try something for me on a good working TR4C?

Connect a dummy load, no mic no key plugged in.
Set the VFO for 14.260mhz and tune up for max power out as read on a decent wattmeter (not relative power on the S meter).
Use the X-CW mode and SIDEBAND X.

Then let me know the XMIT GAIN clock position, the PLATE, RF TUNE and LOAD numerical knob setting, output watts and plate current.

I am trying to maintain my sanity but not sure how long I can last.
Enough for now.

Thanks and 73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

[Non-text portions of this message have been removed]

4536. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 21:07:27 UTC
From: Don Cunningham
Topic: 4508 Message: 4536

Okay, I'll be around at 0100z
Thanks,
Don, WB5HAK

[Non-text portions of this message have been removed]

4537. Re: [DrakeRadio] Re: TR4C repairs Data from KM2KM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 23:10:40 UTC
From: Kris Merschrod
Topic: 4533 Message: 4537

Ok Dick,

On my TR-4Cw, here are the facts and figures:

Connected a dummy load (used the Drake 300 W job), no mic no key plugged in.
Set the VFO for 14.260mhz and tune up for max power out as read on a
decent wattmeter (Drake MN-2000 used).
Use the X-CW mode and SIDEBAND X -Yes.

Then let me know:
XMIT GAIN clock position, = 9:45
the PLATE = 7.1
RF TUNE = 6.2
LOAD numerical knob setting = 2.5
output watts = 110 (not as high as I'd like it but as much as I get on this band)
plate current = 4.2

I hope that helps,

Kris KM2KM

[Non-text portions of this message have been removed]

4538. Re: [Drake] TR4C repairs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-20 23:15:41 UTC
From: Dick KF4NS
Topic: 4538 Message: 4538

Ok Bill and Doug,
Thanks for your replies. My readings were similar; Xmit gain 9:30,
plate 7, load 3, RF tune 6,
output 150 watts, current 450.

Looks like I may not have fallen into the s*&% again. At first it was
back to it's old ways and was showing 600ma plate current with all
controls full ccw except for sideband switch at X. This occured right
after a repeat neutralization using my scope. I will not say this time
that I FIXED IT I FIXED IT because I will wait and see.

I also went over the band switch wafers again and pressed on every
contact, using a high magnifier and made sure all were actually
lifting up when the contacts made. A couple were iffy. I did a good
cleaning and put Deoxit on the rotating discs.

In my 72 years I have eaten lots of crow but it never tasted so bad as
this, when the plate current shot up.
Wish me luck and maybe my nightmare is over.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----
From: "wabate" <wabate@...>
To: "Dick KF4NS" <kf4nsradio@...>
Cc: "DrakeRadio list" <DrakeRadio@yahoogroups.com>
Sent: Wednesday, October 20, 2010 2:36 PM
Subject: Re: [Drake] TR4C repairs

> Dick,
>
> XMIT gain 9:30
> Plate 7.5
> Load 2.5
> RF tune 5.7
> Output 150 watts,
> Current 440 ma
>
> Could tune up to about 175 watts but then current would be over 500
> ma. Hope that helps. I'm trying to preserve my sanity too. Lost
> the slug on L7. Know its on the floor somewhere!!! HI HI..
>
> GL,
>

> Bill, K3PGB
>

----- Original Message -----
From: k2jj@...
To: kf4nsradio@...
Sent: Wednesday, October 20, 2010 4:40 PM
Subject: Re: [Drake] TR4C repairs

Hi Dick. My settings are about identical to Bill K3PGB. Slightly
higher output at 165 watts at 500ma as measured on the Bird 43. 73
Doug K2JJ.

> Dick KF4NS wrote:
>> For the moment I will not say much, just a request before anything
>> further. I am trying to keep my cool.
>>
>> Would someone please try something for me on a good working TR4C?
>>
>> Connect a dummy load, no mic no key plugged in.
>> Set the VFO for 14.260mhz and tune up for max power out as read on
>> a decent wattmeter (not relative power on the S meter).
>> Use the X-CW mode and SIDEBAND X.
>>
>> Then let me know the XMIT GAIN clock position, the PLATE, RF TUNE
>> and LOAD numerical knob setting, output watts and plate current.
>>
>> I am trying to maintain my sanity but not sure how long I can last.
>> Enough for now.
>>
>> Thanks and 73, Dick KF4NS
>> St Petersburg, FL 33714 USA
>> Keep The Glow!
>>
>> _____

4539. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 01:29:08 UTC
From: Don Cunningham
Topic: 4508 Message: 4539

Kris,
Thanks for the try, but I didn't hear you or Bob or anyone talking about Drakes. I did hear a W1 working a WD5 mobile station, the Ole Miss net and some activity above 7.190. Sorry we couldn't make the trip to New York for some reason. I have been hearing New Jersey stations this past week, so maybe we can do it another time. I hope you found some stations to talk to with the old Drakes.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4540. Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 02:42:23 UTC
From: wctaylor@juno.com
Topic: 4508 Message: 4540

I was listening from 7.180 and 7.190 and heard a very loud station for a split second near 7.185 here in West Texas, was that one of you guys tuning up? Thanks, Bill KD4LXC
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "Don Cunningham" <donc@martineer.net>
Sender: DrakeRadio@yahoogroups.com
Date: Wed, 20 Oct 2010 20:29:08
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Kris,
Thanks for the try, but I didn't hear you or Bob or anyone talking about Drakes. I did hear a W1 working a WD5 mobile station, the Ole Miss net and some activity above 7.190. Sorry we couldn't make the trip to New York for some reason. I have been hearing New Jersey stations this past week, so maybe we can do it another time. I hope you found some stations to talk to with the old Drakes.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

4541. RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 02:49:02 UTC
From: Jim Chaggaris
Topic: 4508 Message: 4541

Bill,

That was probably me tuning up my B-Line and L4B hi hi.

I heard Kris talking to a station in MO but had to leave for about 15 minutes. When I came back, Kris and the other station were gone.

Oh well The Drake Net on 7.238 (Sunday□s at 2000 UTC) is not a bad place to talk about our wonderful Drake rigs.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@...m] On Behalf Of wctaylor@...
Sent: Wednesday, October 20, 2010 9:42 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn

7.180 & 7.190 starting 0100 UTC

I was listening from 7.180 and 7.190 and heard a very loud station for a split second near 7.185 here in West Texas, was that one of you guys tuning up? Thanks, Bill KD4LXC
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "Don Cunningham" <donc@... <mailto:donc%40martineer.net> >
Sender: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Date: Wed, 20 Oct 2010 20:29:08
To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> >
Reply-To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: Re: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Kris,
Thanks for the try, but I didn't hear you or Bob or anyone talking about Drakes. I did hear a W1 working a WD5 mobile station, the Ole Miss net and some activity above 7.190. Sorry we couldn't make the trip to New York for some reason. I have been hearing New Jersey stations this past week, so maybe we can do it another time. I hope you found some stations to talk to with the old Drakes.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

4542. RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 18:14:30 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4542

Hey fellow Drake enthusiasts,

Why don't we try 80m some night? Prop. has been great everynight. If you want, I'll try looking around for an open spot over the next few evenings.

P.S. 15m has been open in the afternoon here in the mid-atlantic.

Kris, haven't you gotten your "twins" to work on 60m yet? Mine are. Get moving buddy.

Bob N3JQD

_____
SHOCKING: 2010 Honda Civic for $1,734.09
SPECIAL REPORT: High ticket items are being...
http://thirdpartyoffers.juno.com/TGL3141/4cc08345938da380a98st04vuc

4543. Re: [DrakeRadio] 75 Meters this evening?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 21:54:43 UTC
From: Kris Merschrod
Topic: 4508 Message: 4543

Good afternoon Bob (N2JQD),

I am game for 75 meters - why not the 3.865Mhz spot where the Tuesday net meets? Same time 0100 UTC? Just lay down a barrage of CQs and I'll find you plus or minus 10.

Kris KM2KM
Merschrod
www.merschrod.net/KA2OIG.htm
" Where resonance is a way of life."

4544. RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-21 23:41:44 UTC
From: Walter Milton
Topic: 4508 Message: 4544

Just let me know where we are going to settle on 80 M and I'll be there with my twins. How did you get your twins to work on 60 M with the IF for the twins so near?

Walt, KA2NJF

Ps: I HAVE THE t4xc/R4C combo

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of bobsalmon@...
Sent: Thursday, October 21, 2010 2:15 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Hey fellow Drake enthusiasts,

Why don't we try 80m some night? Prop. has been great everynight. If you want, I'll try looking around for an open spot over the next few evenings.

P.S. 15m has been open in the afternoon here in the mid-atlantic.

Kris, haven't you gotten your "twins" to work on 60m yet? Mine are. Get moving buddy.

Bob N3JQD

_____
SHOCKING: 2010 Honda Civic for $1,734.09
SPECIAL REPORT: High ticket items are being...
http://thirdpartyoffers.juno.com/TGL3141/4cc08345938da380a98st04vuc

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Yahoo! Groups Links

4545. RE: [DrakeRadio] Re: Drake Twins 40m Sked Wednesday night btwn 7.180 & 7.190 starting 0100 UTC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-22 01:45:04 UTC
From: bobsalmon@juno.com
Topic: 4508 Message: 4545

I couldn't make it this evening because I fell asleep, sorry.

P.S. I'm kidding Kris about the 60m operation, as we're 60m enthusiasts and can only dream about our Drakes operating in that band.
Bob N3JQD

_____
Refinance Now 3.7% FIXED
$160,000 Mortgage: $547/mo. No Hidden Fees. No SSN Req. Get 4 Quotes!
http://thirdpartyoffers.juno.com/TGL3141/4cc0ecf3c987b3fde3dst02vuc

4546. Re: [DrakeRadio] 75 Meters this evening?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-22 07:17:49 UTC
From: Richard Knoppow
Topic: 4508 Message: 4546

----- Original Message -----
From: "Kris Merschrod" <kris@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 21, 2010 2:54 PM
Subject: Re: [DrakeRadio] 75 Meters this evening?

> Good afternoon Bob (N2JQD),
>
> I am game for 75 meters - why not the 3.865Mhz spot where
> the Tuesday net
> meets? Same time 0100 UTC? Just lay down a barrage of
> CQs and I'll find
> you plus or minus 10.
>
> Kris KM2KM
> Merschrod
> www.merschrod.net/KA2OIG.htm
> " Where resonance is a way of life."

I listened for this but couldn't hear anyone. This is a
very noisy location and I have only a makeshift antenna so
its possible thousands may have been out there.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4547. Drake TR7 help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 14:52:15 UTC
From: kf0hr
Topic: 4547 Message: 4547

Hello Drake list,

Picked up TR7 last month. It works very good on TX and RX. I am impressed with the receiver!

It has a couple things I would like to correct.

First - the PTO or VFO makes a rattle sound when I spin the knob at a fast rate.

Second ☐ AM audio is so narrow, anyone tried the home brew wide filter or just get the 6KC filter and be done?

Last ☐ My digital display is off frequency on all bands all the time?
It always shows 300 cycles high when I tune into a station on 3.937 it shows 3.937.3 Mhz.
Same on WWV 10.000.0 Mhz zero beats to 10.000.3
Most new rigs with read out has made the operating on even frequency.
3.900 or 3.905 well my TR7 would have to be tuned to 3.900.300 or 3.905.300 to sound on frequency.
The hundred herts digit on the TR7 Display does change as I tune the VFO.

Thanks for the band width,
Teran KF0HR in North Dakota

4548. Re: [DrakeRadio] Drake TR7 help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 16:27:35 UTC
From: Jim Shorney
Topic: 4547 Message: 4548

Hi Teran,

Congrats on the "new" TR-7. Comments inserted below.

On Sun, 24 Oct 2010 14:52:15 -0000, kf0hr wrote:

> First - the PTO or VFO makes a rattle sound when I spin the knob at a fast rate.

It sounds like the nylon gears are rattling, I've seen this happen. You could tear down the PTO and re-lube it, but that's a major job. Genereally, the nylon gears don't require any lubrication, but I have seen it in some. You need to be careful of the kind of lube you use on the gears, as some types will swell the gears and yo will have another problem. I've used TriFlow bicycle grease, it seems to work OK. Some of the gurus maintain the NO grease or oil at all should be used on the nylon parts. What is probably more likely is that dried or stiff lubricant on the parts of the PTO drive that are supposed to be lubricated is aggravating the gear rattle.

> Second ☐ AM audio is so narrow, anyone tried the home brew wide filter or just get the 6KC filter and be done?

That's nornal when listening to AM through the stock 2.4 KHz SSB filter. You could go with an AM filter, they used to show up reasonably priced on the auction site, but recently seem to have gone up a little. The Drake factory mod of placing a resistor across an unused filter slot works fairly well, it effectively gives you an AM bandwidth of 8 to 12 KHz, depending on your first IF roofing filter. Not optimal, but it works and it's cheaper than buying an actual AM filter. One note, if you do get an AM filter, the rig can be modified to use that filter on transmit as well, which gives you full bandwidth double-sideband AM on transmit. With the standard configuration, you actually only transmit one sideband with carrier on AM.

> Last ☐ My digital display is off frequency on all bands all the time?

Your rig needs to have the crystal oscillators aligned to frequency. It's not a difficult task, but you need an accurate and sensitive frequency counter to do it properly. Unlike modern rigs which use PLL oscillators under computer control, the digital readout of the TR-7 is an actual frequency counter sampling the analog PTO output. Any error on the frequency of the crystal oscillators in the radio will show up as frequency error on the display. Full alignment info is available in the service manual, which can be found on the internet for free download at a couple of the usual sources.

For more information than you probably ever wanted to know, you may also want to surf the Drakelist archives available at http://www.zerobeat.net/drakelist/ , and also visit the wb4hfn.com web site.

I hope this helps.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4549. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 16:36:00 UTC
From: Victor
Topic: 606 Message: 4549

Hi Gary.
Sorry for delay in answering but had grandkids all week - 3 & 6 and a handful!
Still haven't got this going. To refresh your overburdened memory I had a bit of a burn out from the EHT. Replaced the cooked bits and no IC and then lost standing current. Messed with the relay and now have standing current but no RF out.Did as you suggested and tried grounding pin 7 on the appropriate tubes - still no output.
Have, so far, checked the voltages on the PA's, driver and mixer and they are within reasonable range.
It may help if I tell you how my problems came about. It worked fine but needed neutralizing. The only way I know is to stand the rig on its side and adjust from underneath. During that process R38 started to burn and arc to earth. Switched off quickly and did a physical check around. R38 seemed to be the only casualty. Stupidly I replaced that and switched back on. For a few seconds all seemed fine until the driver warmed up and started conducting and then it cooked R44 (680) and charred some of the wiring also.
Further inspection showed that board 6 (on your CD) didn't look very heathy. So far I have totally renewed all of board 6 except the tubular ceramic, replaced R38 &R44 etc.
I think what happened was whilst I was neutralizing (the rig on its side) one of the PA's shorted internally but I also noted that the leads from the fixed cermaic across the neut. cap were too close for comfort and whilst adjusting the rotor touched the wrong side of that cap Not sure but a possibility.
So that's how it stands at the moment. Sometimes I feel that I am within 1" of getting it sorted but the next day it somehow extends to a mile!
Cheers
Vic

4550. Lookoing for a 19" Rack for a DRAKE RR-1

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 16:43:51 UTC
From: Hans-Joachim Empel
Topic: 4550 Message: 4550

Hello to the Group .

yesterday i had the change to buy a RR - 1 Receiver . (no EPAY but from a German Radio Operator)

He sold me the RR - 1 in excellent conditions but without the 19 inch rack .

Has somebody an idear how to find a original 19 inch Rack ?????

Regards from Germany

Joachim Empel

DL2388RB

Member of the ARRL

[Non-text portions of this message have been removed]

4551. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 18:18:01 UTC
From: Garey Barrell
Topic: 606 Message: 4551

Vic -

OK. Well, first, I think the R38 problem may have been caused by standing the rig on it's side! I assume you stood it on the LEFT side, i.e., trimmer caps on the bottom. I suspect either a wire clipping, solder splash, or ... managed to short one of the GRID (Driver) trim caps to the chassis. This WILL smoke R38, as it is then connected through R39 directly across the +250 VDC bus. I would imagine that R39 is also much the worse for wear.

R44, interestingly, is subject to the same problem, being subjected to the same treatment from a short from any of the PLATE (Driver) trim caps to the chassis. These problems, by the way, are the reason you DO NOT use a metal screwdriver to adjust these trimmers! :-) OR, since you say the neutralization cap was shorted momentarily, THIS will put 650 VDC on one side of R44 with +250 VDC on the other and would also severely overload (235 Watts!) that 1/2W resistor. :-) This short would also apply 650 VDC through T7 to the plate of V4. It's possible that T7 has broken down internally with a shorted turn(s).

If you do not have a scope available, I would try tuning up on 15M and listening to the signal on a receiver. See if you have ANY signal, and if you do, does T7 'peak' normally.

Grounding Pin 7(s) will only get you the idle (standing) current.

I assume you have tried another 12BY7.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi Gary.
> Sorry for delay in answering but had grandkids all week - 3& 6 and a handful!
> Still haven't got this going. To refresh your overburdened memory I had a bit of a burn out from the EHT. Replaced the cooked bits and no IC and then lost standing current. Messed with the relay and now have standing current but no RF out.Did as you suggested and tried grounding pin 7 on the appropriate tubes - still no output.
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and did a physical check around. R38 seemed to be the only casualty. Stupidly I replaced that and switched back on. For a few seconds all seemed fine until the driver warmed up and started conducting and then it cooked R44 (680) and charred some of the wiring also.
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> So that's how it stands at the moment. Sometimes I feel that I am within 1" of getting it sorted but the next day it somehow extends to a mile!
> Cheers
> Vic
>
>
>

4552. Re: TR-7 on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 18:31:43 UTC
From: Les Zwiebel
Topic: 4547 Message: 4552

Say, Jim, do you is there anybody else who knows or can point me to a source for the full AM (DSB) xmit mod? I do have a Drake 6kc filter installed.
Tnx in advance.
-----Original Message-----
From: "Jim Shorney" <jshorney@...>
Sender: DrakeRadio@yahoogroups.com
Date: Sun, 24 Oct 2010 11:27:35
To: DrakeRadio@yahoogroups.com<DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake TR7 help needed

Hi Teran,

Congrats on the "new" TR-7. Comments inserted below.

On Sun, 24 Oct 2010 14:52:15 -0000, kf0hr wrote:

> First - the PTO or VFO makes a rattle sound when I spin the knob at a fast rate.

It sounds like the nylon gears are rattling, I've seen this happen. You could tear down the PTO and re-lube it, but that's a major job. Genereally, the nylon gears don't require any lubrication, but I have seen it in some. You need to be careful of the kind of lube you use on the gears, as some types will swell the gears and yo will have another problem. I've used TriFlow bicycle grease, it seems to work OK. Some of the gurus maintain the NO grease or oil at all should be used on the nylon parts. What is probably more likely is that dried or stiff lubricant on the parts of the PTO drive that are supposed to be lubricated is aggravating the gear rattle.

> Second ? AM audio is so narrow, anyone tried the home brew wide filter or just get the 6KC filter and be done?

That's nornal when listening to AM through the stock 2.4 KHz SSB filter. You could go with an AM filter, they used to show up reasonably priced on the auction site, but recently seem to have gone up a little. The Drake factory mod of placing a resistor across an unused filter slot works fairly well, it effectively gives you an AM bandwidth of 8 to 12 KHz, depending on your first IF roofing filter. Not optimal, but it works and it's cheaper than buying an actual AM filter. One note, if you do get an AM filter, the rig can be modified to use that filter on transmit as well, which gives you full bandwidth double-sideband AM on transmit. With the standard configuration, you actually only transmit one sideband with carrier on AM.

> Last ? My digital display is off frequency on all bands all the time?

Your rig needs to have the crystal oscillators aligned to frequency. It's not a difficult task, but you need an accurate and sensitive frequency counter to do

it properly. Unlike modern rigs which use PLL oscillators under computer control, the digital readout of the TR-7 is an actual frequency counter sampling the analog PTO output. Any error on the frequency of the crystal oscillators in the radio will show up as frequency error on the display. Full alignment info is available in the service manual, which can be found on the internet for free download at a couple of the usual sources.

For more information than you probably ever wanted to know, you may also want to surf the Drakelist archives available at http://www.zerobeat.net/drakelist/ , and also visit the wb4hfn.com web site.

I hope this helps.

73

-Jim

--
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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

4553. Re: [DrakeRadio] Re: TR-7 on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-24 18:56:05 UTC
From: Jim Shorney
Topic: 4547 Message: 4553

On Sun, 24 Oct 2010 18:31:43 +0000, Les Zwiebel wrote:

>Say, Jim, do you is there anybody else who knows or can point me to a source for the full AM (DSB) xmit mod? I do have a Drake 6kc filter installed.

Jeff Covelli's original article on the mod is here:

http://wb4hfn.com/DRAKE/DrakeArticles/TR7_AM_Mod/TR7_AM-P1.htm

My write-up on correcting the filter offset can be found here:

http://zerobeat.net/drakelist/smf/index.php/topic,230.0.html

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4554. 4 B Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-27 01:24:36 UTC
From: Don Cunningham
Topic: 4554 Message: 4554

In the purchase of a nice R4B/T4XB set recently I got a mint, unused dial for the 4 B Line Drakes. Was there someone looking for an unblemished one as a pattern to reproduce them?? If so, I would send this one only asking that it be returned and that I get one of the reproductions for my parts bin
so I could replace mine in the future. Am I remembering right, or just wishful thinking, hi.
73,
Don, WB5HAK

4555. Early model of TR7 and R7-possible improvements

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-27 04:47:51 UTC
From: Wojciech
Topic: 4555 Message: 4555

Hello group,
I own a very early version of TR7/R7 (serial numbers around 700)
Is someone aware of possible modifications to these radios introduced by R L Drake in their subsequent series? Especially my R7 seems to be very deaf in comparison to TR7.

All details would be appreciated-

Tom, VK2OE

4556. Re: [DrakeRadio] 4 B Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-27 10:53:58 UTC
From: ALAN PHILLIPS
Topic: 4554 Message: 4556

Don:
You hit Gold.
You may want to scan your dial into your computer and print the results out on some clear transparency for a backup. The exact size transparency can also be used by someone to make the dial.

73's al kc9ys

From: Don Cunningham <donc@martineer.net>
To: DrakeRadio@yahoogroups.com
Sent: Tue, October 26, 2010 8:24:36 PM
Subject: [DrakeRadio] 4 B Line Dial

In the purchase of a nice R4B/T4XB set recently I got a mint, unused dial for the 4 B Line Drakes. Was there someone looking for an unblemished one as a pattern to reproduce them?? If so, I would send this one only asking that it be returned and that I get one of the reproductions for my parts bin
so I could replace mine in the future. Am I remembering right, or just wishful thinking, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4557. Re: [DrakeRadio] Early model of TR7 and R7-possible improvements

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-28 01:10:01 UTC
From: Jim Shorney
Topic: 4555 Message: 4557

On Wed, 27 Oct 2010 04:47:51 -0000, Wojciech wrote:

>I own a very early version of TR7/R7 (serial numbers around 700)
>Is someone aware of possible modifications to these radios introduced by R L Drake in their subsequent series? Especially my R7 seems to be very deaf in comparison to TR7.

No mods that would affect sensitivity, that I know of.The R-7 should be as sensitive as the TR-7, as the RF strips are vritually identical. Could be dirty/oxidized bandswitch or PCB Molex connectors, a fault in the antenna splitter/switch, or maybe the first mixer brick is bad. Don't overlook the possibility of an overstressed RCA jack as well.

There were some mods to the 2nd IF/Audio board in the TR-7, but nothing that would alter the sensitivity. You can find some of those detailed here:

http://radiojim.exofire.net/pages/TR7_2IFA.html

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4558. Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-28 23:09:17 UTC
From: Bob Macklin
Topic: 4558 Message: 4558

Did Drake put an overcoat on the copper plated chassis? Or was it uncoated copper?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

4559. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 01:04:48 UTC
From: Paul Kraemer
Topic: 4558 Message: 4559

Bob
It is copper clad steel with a protective lacquer type finish
Pinholes in the plating lead to rust just like a cadmium plated steel
chassis
The lacquer also deteriorates with age and heat, comes off if you get too
agressive cleaning it
Paul K0UYA

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 6:09 PM
Subject: [DrakeRadio] Copper Chassis?

> Did Drake put an overcoat on the copper plated chassis? Or was it uncoated
> copper?
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
>
> [Non-text portions of this message have been removed]
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4560. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 01:23:07 UTC
From: Bob Macklin
Topic: 4558 Message: 4560

I ask the question because I have a Heath HR-10 chassis where the CAD plating is flaking off. Do I want to try and get it replated or just paint it? If I pint it I will have to mask or clean off spots where a ground is required.

I asked this question because I have heard of other painting chassis.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Paul Kraemer
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 28, 2010 6:04 PM
Subject: Re: [DrakeRadio] Copper Chassis?

Bob
It is copper clad steel with a protective lacquer type finish
Pinholes in the plating lead to rust just like a cadmium plated steel chassis
The lacquer also deteriorates with age and heat, comes off if you get too agressive cleaning it
Paul K0UYA

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 6:09 PM
Subject: [DrakeRadio] Copper Chassis?

> Did Drake put an overcoat on the copper plated chassis? Or was it uncoated
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

4561. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 01:54:15 UTC
From: Richard Knoppow
Topic: 4558 Message: 4561

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 6:23 PM
Subject: Re: [DrakeRadio] Copper Chassis?

>I ask the question because I have a Heath HR-10 chassis
>where the CAD plating is flaking off. Do I want to try and
>get it replated or just paint it? If I pint it I will have
>to mask or clean off spots where a ground is required.
>
> I asked this question because I have heard of other
> painting chassis.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

I don't think you will be able to get anything cadmium
plated these days, its considered a serious environmental
hazard right along with mercury.
Painting the chassis with an anti-rust paint may help.
You will have to either clean the paint off or use star
washers where gounds are needed.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4562. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 01:57:26 UTC
From: Richard Knoppow
Topic: 4558 Message: 4562

```
----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 6:23 PM
Subject: Re: [DrakeRadio] Copper Chassis?

>I ask the question because I have a Heath HR-10 chassis
>where the CAD plating is flaking off. Do I want to try and
>get it replated or just paint it? If I pint it I will have
>to mask or clean off spots where a ground is required.
>
> I asked this question because I have heard of other
> painting chassis.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: Paul Kraemer
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, October 28, 2010 6:04 PM
Well, it turns out I am wrong. I did a search and found
several places that still do cadmium plating.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

4563. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 02:02:12 UTC
From: Paul Kraemer
Topic: 4558 Message: 4563

Bob
I have had good success (IMHO) on my older Drake gear by first a careful cleaning with warm soapy water applied with toothbrush and Q tips.
Carefully rinse with clean clear water, blot dry.
Then I begin cleaning and polishing with MeGuires paste wax with cleaner
I work it around good with an old tooth brush and Q tips, let dry and begin polishing with Q tips and soft rag pushed about with the handle of the tooth brush.
Takes me several sessions over a couple evenings to do a 2B. Sessions are always accompanied by 75m rag chew and enjoying favorite fermented beverage
The cleaner agent (possibly ammonia) in the polish seems to pull much of the corrosion out through the lacquer and the polish is a protective coating to the lacquer. They look pretty darn good in the end. Maybe it's the beverage hihi.
Works for me. YMMV
Paul K0UYA
----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 8:23 PM
Subject: Re: [DrakeRadio] Copper Chassis?

>I ask the question because I have a Heath HR-10 chassis where the CAD
>plating is flaking off. Do I want to try and get it replated or just paint
>it? If I pint it I will have to mask or clean off spots where a ground is
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> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: Paul Kraemer
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, October 28, 2010 6:04 PM
> Subject: Re: [DrakeRadio] Copper Chassis?
>
>
>
> Bob
> It is copper clad steel with a protective lacquer type finish
> Pinholes in the plating lead to rust just like a cadmium plated steel
> chassis

> The lacquer also deteriorates with age and heat, comes off if you get too
> agressive cleaning it
> Paul K0UYA
>
> ----- Original Message -----
> From: "Bob Macklin" <macklinbob@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, October 28, 2010 6:09 PM
> Subject: [DrakeRadio] Copper Chassis?
>
> > Did Drake put an overcoat on the copper plated chassis? Or was it
> uncoated
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> > Bob Macklin
> > K5MYJ
> > Seattle, Wa.
> > "Real Radios Glow In The Dark"
> >
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4564. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 02:30:01 UTC
From: Don Cunningham
Topic: 4558 Message: 4564

Paul,
Mequires makes several "polishes". Can you specify a number, or distinctive kind of polish?? I have a nice R4B with the best chassis I have seen, and I'd like to protect it. The T4XB that came with it is nice, but it is starting to have the pinholes and even some dime sized areas in a couple of places that need some attention. Thanks!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4565. RE: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 02:41:39 UTC
From: Jim Chaggaris
Topic: 4558 Message: 4565

Paul,

Ditto here. I have a late serial number B-Line with only a couple of spots/pin holes on the R4B chassis and none on the T4XB. I also think there's an article on the WB4HFN website about reconditioning the copper chassis's.

Also, the worst thing you can do is touch the chassis with your fingers/hands. The oil from your hands (along with heat) will start the oxidation process and over time is probably the main reason for a lot of the pitting.

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: (630) 443-6500

Fax: (630) 443-6505

Cell: (630) 669-2241

Website: www.pwrone.com

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don Cunningham
Sent: Thursday, October 28, 2010 9:30 PM
To: DrakeRadio@yahoogroups.com

Subject: Re: [DrakeRadio] Copper Chassis?

Paul,
Mequires makes several "polishes". Can you specify a number, or distinctive kind of polish?? I have a nice R4B with the best chassis I have seen, and I'd like to protect it. The T4XB that came with it is nice, but it is starting to have the pinholes and even some dime sized areas in a couple of places that need some attention. Thanks!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4566. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 02:43:35 UTC
From: Paul Kraemer
Topic: 4558 Message: 4566

Don
It is an oldie (like the radios)
All it says on the can is Meguires Cleaner Wax-clear coat safe---America's top selling A-1214
Has a very pronounced ammonia odor when opened. Gives me a headache after a while.
I did my 2B, R4, started my T4X and several others. Also trying it on a cadmium plated chassis on a linear and that is proving to be quite a chore getting an even lustre. The Drakes were easier possibly because of the laquer finish.
Paul
----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 9:30 PM
Subject: Re: [DrakeRadio] Copper Chassis?

> Paul,
> Mequires makes several "polishes". Can you specify a number, or
> distinctive kind of polish?? I have a nice R4B with the best chassis I
> have seen, and I'd like to protect it. The T4XB that came with it is
> nice, but it is starting to have the pinholes and even some dime sized
> areas in a couple of places that need some attention. Thanks!
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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4567. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 03:02:01 UTC
From: Paul Kraemer
Topic: 4558 Message: 4567

Jim
That TR-4 on WB4HFN started out a lot better looking than anything I'm working with
Paul
----- Original Message -----
From: "Jim Chaggaris" <jimc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 9:41 PM
Subject: RE: [DrakeRadio] Copper Chassis?

> Paul,
>
>
>
> Ditto here. I have a late serial number B-Line with only a couple of
> spots/pin holes on the R4B chassis and none on the T4XB. I also think
> there's an article on the WB4HFN website about reconditioning the copper
> chassis's.
>
>
>
> Also, the worst thing you can do is touch the chassis with your
> fingers/hands. The oil from your hands (along with heat) will start the
> oxidation process and over time is probably the main reason for a lot of
> the
> pitting.
>
>
>
> Best Regards,
>
>
>
> Jim N9WW
>
>
>
> James Chaggaris
>
> President
>
> PowerOne Corp./PowerOne Environmental
>
> 1020 Cedar Avenue
>

> Suite 203
>
> St. Charles, IL 60174
>
> Phn: (630) 443-6500
>
> Fax: (630) 443-6505
>
> Cell: (630) 669-2241
>
> Website: www.pwrone.com
>
>
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>
> The information contained in this message is intended only for the
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> and confidential use of the recipient(s) named above. If the reader of
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> this document in error and that any review, dissemination, distribution,
> or
> copying of this message is strictly prohibited. If you have received this
> communication in error, please notify PowerOne Corporation immediately,
> and
> delete the original message.
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Don Cunningham
> Sent: Thursday, October 28, 2010 9:30 PM
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] Copper Chassis?
>
>
>
>
>
> Paul,
> Mequires makes several "polishes". Can you specify a number, or
> distinctive
> kind of polish?? I have a nice R4B with the best chassis I have seen, and
> I'd like to protect it. The T4XB that came with it is nice, but it is
> starting to have the pinholes and even some dime sized areas in a couple
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> places that need some attention. Thanks!
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4568. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 03:02:42 UTC
From: Garey Barrell
Topic: 4558 Message: 4568

Bob -

It had a clear lacquer, (or varnish?,) applied. Probably dipped. There
are tiny pin-holes in the coating that allow a little moisture, followed
by corrosion.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Bob Macklin wrote:
> Did Drake put an overcoat on the copper plated chassis? Or was it uncoated copper?
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
>
>

4569. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 04:05:17 UTC
From: Bob Macklin
Topic: 4558 Message: 4569

If the Drake chassis does have a lacquer overcoat you sure don't want to use anything like lacquer thinner or acetone for cleaning.

On my Heath HR-10 chassis I use 409 and all the lettering came off!

What ever you do cleaning some of the stuff is sometime surprising. Some Heath panels are not bothered by lacquer thinner but other are. How do I know? GUESS!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 28, 2010 8:02 PM
Subject: Re: [DrakeRadio] Copper Chassis?

Bob -

It had a clear lacquer, (or varnish?,) applied. Probably dipped. There
are tiny pin-holes in the coating that allow a little moisture, followed
by corrosion.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Bob Macklin wrote:
> Did Drake put an overcoat on the copper plated chassis? Or was it uncoated copper?
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
>
>

[Non-text portions of this message have been removed]

4570. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 07:32:08 UTC
From: Richard Knoppow
Topic: 4558 Message: 4570

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 9:05 PM
Subject: Re: [DrakeRadio] Copper Chassis?

> If the Drake chassis does have a lacquer overcoat you sure
> don't want to use anything like lacquer thinner or acetone
> for cleaning.
>
> On my Heath HR-10 chassis I use 409 and all the lettering
> came off!
>
> What ever you do cleaning some of the stuff is sometime
> surprising. Some Heath panels are not bothered by lacquer
> thinner but other are. How do I know? GUESS!
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

Some lacquers and some inks are dissolved by a medium
strong alkaline solution. Many cleaners are quite alkaline.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4571. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 13:55:28 UTC
From: Paul Kraemer
Topic: 4558 Message: 4571

Roger that Bob
Happened to me starting to clean a TR-3 with Simple Green
That is when I came up with my other method
Paul K0UYA
----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 11:05 PM
Subject: Re: [DrakeRadio] Copper Chassis?

> If the Drake chassis does have a lacquer overcoat you sure don't want to
> use anything like lacquer thinner or acetone for cleaning.
>
> On my Heath HR-10 chassis I use 409 and all the lettering came off!
>
> What ever you do cleaning some of the stuff is sometime surprising. Some
> Heath panels are not bothered by lacquer thinner but other are. How do I
> know? GUESS!
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, October 28, 2010 8:02 PM
> Subject: Re: [DrakeRadio] Copper Chassis?
>
>
>
> Bob -
>
> It had a clear lacquer, (or varnish?,) applied. Probably dipped. There
> are tiny pin-holes in the coating that allow a little moisture, followed
> by corrosion.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
> TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Bob Macklin wrote:

> > Did Drake put an overcoat on the copper plated chassis? Or was it
> uncoated copper?
> >
> > Bob Macklin
> > K5MYJ
> > Seattle, Wa.
> > "Real Radios Glow In The Dark"
> >
> >
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4572. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 16:11:24 UTC
From: Bob Macklin
Topic: 4558 Message: 4572

I recently bought a Heath IP-27 power supply off eBay. It has silver overspray on the front panel. I tried cleaning it with enamel thinner and it damaged the lettering. So I removed it all and redid it.

A couple of weeks ago I wanted to remove the lettering from a Heath HM-15 SWR meter case. Nothing I had would touch it.

It seems you just cannot tell what will happen.

What are the feelings about painting an old chassis. This is not a restoration. Jut to make it useable.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 29, 2010 12:32 AM
Subject: Re: [DrakeRadio] Copper Chassis?

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, October 28, 2010 9:05 PM
Subject: Re: [DrakeRadio] Copper Chassis?

> If the Drake chassis does have a lacquer overcoat you sure
> don't want to use anything like lacquer thinner or acetone
> for cleaning.
>
> On my Heath HR-10 chassis I use 409 and all the lettering
> came off!
>
> What ever you do cleaning some of the stuff is sometime
> surprising. Some Heath panels are not bothered by lacquer
> thinner but other are. How do I know? GUESS!
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

Some lacquers and some inks are dissolved by a medium
strong alkaline solution. Many cleaners are quite alkaline.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4574. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 16:50:52 UTC
From: Don Cunningham
Topic: 4558 Message: 4574

Bob,
I would think you are doing the right thing to paint one that would likely be stripped of parts and just discarded!! I see far too much of that from some sources!! I, for one, would rather see this gear used. Of course, final disposition is always up to the owner, not me, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4575. MN4 Tuner not tuning for 80 meters. What's up?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 17:48:14 UTC
From: billykatzz
Topic: 4575 Message: 4575

I'm currently using a 40 meter, twinlead-fed dipole with a 4:1 air core balun connecting to my MN4 tuner. A month or two ago, I tried tuning up on 80 and was pleasantly surprised that the rig and tuner had no problem matching to the dipole.

Last night, I tried getting on 80 again, but this time I couldn't bring the tuner adjustment down. I'm not sure what changed. Shouldn't the MN4 should be able to match the antenna? What gives?

Bill in Pasadena

4576. Re: [DrakeRadio] MN4 Tuner not tuning for 80 meters. What's up?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 17:57:33 UTC
From: Don Cunningham
Topic: 4575 Message: 4576

Bill,
That's a pretty good stretch for a tuner. Sometimes it will fool you and at least show a match, but in most cases, you are just fooling yourself. Now a twinlead-fed 80m should tune on 40m. You just need more wire, like half wave on the lowest frequency you will use. My 160m will, with some fiddling, tune up to 20m okay, but 80m dipoles will just not work on 160m.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4577. RE: [DrakeRadio] MN4 Tuner not tuning for 80 meters. What's up?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 18:08:04 UTC
From: Bob Spooner
Topic: 4575 Message: 4577

Bill,

Are you sure you had all the settings the same? If so, try a small amount of DeOxit on the switches in case one of them isn□t low resistance.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of billykatzz
Sent: Friday, October 29, 2010 1:48 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] MN4 Tuner not tuning for 80 meters. What's up?

I'm currently using a 40 meter, twinlead-fed dipole with a 4:1 air core balun connecting to my MN4 tuner. A month or two ago, I tried tuning up on 80 and was pleasantly surprised that the rig and tuner had no problem matching to the dipole.

Last night, I tried getting on 80 again, but this time I couldn't bring the tuner adjustment down. I'm not sure what changed. Shouldn't the MN4 should be able to match the antenna? What gives?

Bill in Pasadena

[Non-text portions of this message have been removed]

4578. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 19:02:49 UTC
From: Craig Roberts
Topic: 4558 Message: 4578

This might be of some interest to some who wish to simulate the cadmium plating look:

http://www.eastwood.com/golden-cad-kit.html

73,

Craig
W3CRR

4579. Re: [DrakeRadio] Copper Chassis?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-29 21:46:00 UTC
From: Paul Kraemer
Topic: 4558 Message: 4579

If it was me I would scour the heck out of it with very fine steel wool and spray a light coat of satin clear Krylon. Looks very nice.
Paul K0UYA
----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, October 29, 2010 11:11 AM
Subject: Re: [DrakeRadio] Copper Chassis?

>I recently bought a Heath IP-27 power supply off eBay. It has silver
>overspray on the front panel. I tried cleaning it with enamel thinner and
>it damaged the lettering. So I removed it all and redid it.
>
> A couple of weeks ago I wanted to remove the lettering from a Heath HM-15
> SWR meter case. Nothing I had would touch it.
>
> It seems you just cannot tell what will happen.
>
> What are the feelings about painting an old chassis. This is not a
> restoration. Jut to make it useable.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: Richard Knoppow
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, October 29, 2010 12:32 AM
> Subject: Re: [DrakeRadio] Copper Chassis?
>
>
>
>
> ----- Original Message -----
> From: "Bob Macklin" <macklinbob@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, October 28, 2010 9:05 PM
> Subject: Re: [DrakeRadio] Copper Chassis?
>
> > If the Drake chassis does have a lacquer overcoat you sure
> > don't want to use anything like lacquer thinner or acetone
> > for cleaning.
> >
> > On my Heath HR-10 chassis I use 409 and all the lettering

> > came off!
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> > What ever you do cleaning some of the stuff is sometime
> > surprising. Some Heath panels are not bothered by lacquer
> > thinner but other are. How do I know? GUESS!
> >
> > Bob Macklin
> > K5MYJ
> > Seattle, Wa.
>
> Some lacquers and some inks are dissolved by a medium
> strong alkaline solution. Many cleaners are quite alkaline.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
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>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4580. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-30 09:22:44 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 4580

Hello again Gary
Still no further forward.
Didn't use a metal screw driver -frightened to death of EHT!
I tried tuning on 15m but no signal of any kind on a Rx. Again changed all the tubes (including 12by7) from a working T-4XC but still
the same.
There is an oddity - I
disconnected the fixed ceramic across the neut cap and on 20m I got IC and the watt meter read what appeared to be RF out. The peak on the
pre-select was very sharp - almost critical. Somehow I think this was a false reading because the readings showed that I was getting 100w
out with little or no gain applied! This only happened on 20m nothing on the other bands.

Re T7, I do have another T-4XC chassis complete with pre-select tuning rack and T's. I have had a good look but it beats me how I am going
to get that out. Is it as difficult as it looks or is there an easy way, please?

Cheers

Vic

4581. Testing the AC-4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 16:13:50 UTC
From: mydogchillroy
Topic: 4581 Message: 4581

Hello Everyone,

I completed re-building my AC-4 power supply with the upgrade kit. I am at the point were I need to test it prior to plugging it into the Drake radio. The instructions say "On the large connector, those two pins are #1 and #2. You can use a short piece of insulated hook up wire to short the two pins together."

Question: I do not understand what is meant by "... those two pins"
The instructions refer to the 12-Pin Cinch Jones Molex connector (correct?)but which are pins #1 and #2. I did a little searching but didn't find an answer. Tnx in Advance!!

73
James
AJ4VP

4582. Re: [DrakeRadio] Testing the AC-4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 16:32:42 UTC
From: Bob Macklin
Topic: 4581 Message: 4582

The AC-4 manual shows the layout of the power connector. But I would suggest using your ohm meter to identify the proper pins.

When I did mine I used a clip lead across the terminals inside the unit.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: mydogchillroy
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 31, 2010 9:13 AM
Subject: [DrakeRadio] Testing the AC-4R upgrade

Hello Everyone,

I completed re-building my AC-4 power supply with the upgrade kit. I am at the point were I need to test it prior to plugging it into the Drake radio. The instructions say "On the large connector, those two pins are #1 and #2. You can use a short piece of insulated hook up wire to short the two pins together."

Question: I do not understand what is meant by "... those two pins"
The instructions refer to the 12-Pin Cinch Jones Molex connector (correct?)but which are pins #1 and #2. I did a little searching but didn't find an answer. Tnx in Advance!!

73
James
AJ4VP

[Non-text portions of this message have been removed]

4583. Re: Testing the AC-4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 16:39:53 UTC
From: mydogchillroy
Topic: 4581 Message: 4583

Gotcha! Thanks for the quick reply, Bob.

73
James

--- In DrakeRadio@yahoogroups.com, Bob Macklin <macklinbob@...> wrote:
>
> The AC-4 manual shows the layout of the power connector. But I would suggest using your ohm meter to identify the proper pins.
>
> When I did mine I used a clip lead across the terminals inside the unit.
>
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: mydogchillroy
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, October 31, 2010 9:13 AM
> Subject: [DrakeRadio] Testing the AC-4R upgrade
>
>
>
> Hello Everyone,
>
> I completed re-building my AC-4 power supply with the upgrade kit. I am at the point were I need to test it prior to plugging it into the Drake radio. The instructions say "On the large connector, those two pins are #1 and #2. You can use a short piece of insulated hook up wire to short the two pins together."
>
> Question: I do not understand what is meant by "... those two pins"
> The instructions refer to the 12-Pin Cinch Jones Molex connector (correct?)but which are pins #1 and #2. I did a little searching but didn't find an answer. Tnx in Advance!!
>
> 73
> James
> AJ4VP
>
>
>
>
>
>
> [Non-text portions of this message have been removed]

>

4584. Testing the AC-4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 19:11:21 UTC
From: mydogchillroy
Topic: 4581 Message: 4584

It's Alive! -- and I didn't kill myself with HV!

Hello Everyone,

I am new to Drakes. I recently purchased a R-4B, T-4XB, MS-4, and W-4. After receiving it I quickly determined the power supply was DOA. I obtained the upgrade kit and re-built the AC-4. I am listening on 40M right now! Pretty cool.

I look forward to learning more about the Drakes from you all now that the radio is working.

73
James

--- In DrakeRadio@yahoogroups.com, "mydogchillroy" <mydogchillroy@...> wrote:
>
> Gotcha! Thanks for the quick reply, Bob.
>
> 73
> James
>
> --- In DrakeRadio@yahoogroups.com, Bob Macklin <macklinbob@> wrote:
> >
> > The AC-4 manual shows the layout of the power connector. But I would suggest using your ohm meter to identify the proper pins.
> >
> > When I did mine I used a clip lead across the terminals inside the unit.
> >
> >
> > Bob Macklin
> > K5MYJ
> > Seattle, Wa.
> > "Real Radios Glow In The Dark"
> > ----- Original Message -----
> > From: mydogchillroy
> > To: DrakeRadio@yahoogroups.com
> > Sent: Sunday, October 31, 2010 9:13 AM
> > Subject: [DrakeRadio] Testing the AC-4R upgrade
> >
> >
> >
> > Hello Everyone,
> >
> > I completed re-building my AC-4 power supply with the upgrade kit. I am at the point were I need to test it prior to plugging it into the Drake radio. The instructions say "On the large connector, those two pins are #1 and #2. You can use a short piece of insulated

hook up wire to short the two pins together."
> >
> > Question: I do not understand what is meant by "... those two pins"
> > The instructions refer to the 12-Pin Cinch Jones Molex connector (correct?)but which are pins #1 and #2. I did a little searching but didn't find an answer. Tnx in Advance!!
> >
> > 73
> > James
> > AJ4VP
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

4585. Re: [DrakeRadio] Testing the AC-4R upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 19:27:20 UTC
From: Bob Macklin
Topic: 4581 Message: 4585

Many years ago I bought my Benton Harbor S-Line twins from a person that had switched to Drake Twins. I bought my Drake Twins the 1st of this year. I have found out why he switched.

My Benton Harbor S-Line twins are not bad. In some respects easier to operate than the Drake twins. But I can here people on the Drake twins that I cannot find on the BH twins.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: mydogchillroy
To: DrakeRadio@yahoogroups.com
Sent: Sunday, October 31, 2010 12:11 PM
Subject: [DrakeRadio] Testing the AC-4R upgrade

It's Alive! -- and I didn't kill myself with HV!

Hello Everyone,

I am new to Drakes. I recently purchased a R-4B, T-4XB, MS-4, and W-4. After receiving it I quickly determined the power supply was DOA. I obtained the upgrade kit and re-built the AC-4. I am listening on 40M right now! Pretty cool.

I look forward to learning more about the Drakes from you all now that the radio is working.

73
James

--- In DrakeRadio@yahoogroups.com, "mydogchillroy" <mydogchillroy@...> wrote:
>
> Gotcha! Thanks for the quick reply, Bob.
>
> 73
> James
>
> --- In DrakeRadio@yahoogroups.com, Bob Macklin <macklinbob@> wrote:
> >
> > The AC-4 manual shows the layout of the power connector. But I would suggest using your ohm meter to identify the proper pins.
> >
> > When I did mine I used a clip lead across the terminals inside the unit.
> >
> >
> > Bob Macklin

> > K5MYJ
> > Seattle, Wa.
> > "Real Radios Glow In The Dark"
> > ----- Original Message -----
> > From: mydogchillroy
> > To: DrakeRadio@yahoogroups.com
> > Sent: Sunday, October 31, 2010 9:13 AM
> > Subject: [DrakeRadio] Testing the AC-4R upgrade
> >
> >
> >
> > Hello Everyone,
> >
> > I completed re-building my AC-4 power supply with the upgrade kit. I am at the point were I need to test it prior to plugging it into the Drake radio. The instructions say "On the large connector, those two pins are #1 and #2. You can use a short piece of insulated hook up wire to short the two pins together."
> >
> > Question: I do not understand what is meant by "... those two pins"
> > The instructions refer to the 12-Pin Cinch Jones Molex connector (correct?)but which are pins #1 and #2. I did a little searching but didn't find an answer. Tnx in Advance!!
> >
> > 73
> > James
> > AJ4VP
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

[Non-text portions of this message have been removed]

4586. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-10-31 20:26:47 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4586

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4587. Hamfest

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-01 05:36:27 UTC
From: Dave Springer
Topic: 4587 Message: 4587

Hi Don & all,

Since you mentioned Hamfest are legal to post here please be aware of one of the midwest finer hamfest coming up next Sunday 07 November 2010.

My home club, The Davenport, (Iowa) Radio Amateur Club (DRAC) is holding it's annual hamfest at the Clarion Hotel 5202 North Brady Street on the S.W. Corner of U.S. 61 Northbound and East 53rd Street. Davenport, Iowa GPS Coordinates are N 41 34.413 and W 90.34.197

You can usually count on some Drake TR-4 radios, and somtimes earlier models..

I have been living in the bush of Alaska for about the last two years and am heading home. Not sure of my flight date yet so I'm not sure if I'll be there or not. If I'm home I'll be there.

Oh, I almost forgot, the club home page is: http://www.arcsupport.com/drac/ There is a link there to the hamfest flyer.

73,

Dave, N0TXJ

--- On Sun, 10/31/10, DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com> wrote:

From: DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] File - Bi-Weekly Statement
To: DrakeRadio@yahoogroups.com
Date: Sunday, October 31, 2010, 12:26 PM

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

[Non-text portions of this message have been removed]

4588. general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-01 17:01:18 UTC
From: William Houghton
Topic: 4588 Message: 4588

Hi fellow Drakies,

My question today is a general one on mics stemming from bring to life a non-Drake radio (gasp). However it is related to the Drake family in that the person who designed the Heathkit SB-104A is said to have later gone to Drake and designed the TR7. Hopefully he eliminated the 'birdies' that the '104 is well know for.

My question is about mics. How much output on voice peaks would you expect to see on a scope at normal speech levels? I realize that a pretty open ended question. My SB-104A seems to be working well now except that it seems to take about 150mV of audio at the mic input to drive it to full output. The troubleshooting/checkout section of the Heath manual says to feed a 150mVp-p 1KHz signal into the input and measure the signal levels at the inputs and outputs of the mic amp stages. Mine are fine with 150mV and that 150mV signal does drive the rig to full output as measured on a W-4 with a dummy load.

It does seem to me that 150mVp-p is a really high output requirement for a mic (about -16.5dB ref to 1V). That even seems like a high output for an amplified mic based on some specs I have seen for mics. I bought this radio because my community college had one back when I first got licensed. It was the first SSB station I ever operated. I don't remember the mic that was bought with it from Heathkit as being an amplified mic, but I could be wrong.

How much output do you see from your mics? Is there any flaws in my thinking ?

73,

WA6NEQ (Bill)

[Non-text portions of this message have been removed]

4589. Re: [DrakeRadio] general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-01 20:04:39 UTC
From: Richard Knoppow
Topic: 4588 Message: 4589

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 01, 2010 10:01 AM
Subject: [DrakeRadio] general question on microphones

> Hi fellow Drakies,
>
> My question today is a general one on mics stemming from
> bring to life a
> non-Drake radio (gasp). However it is related to the Drake
> family in that the
> person who designed the Heathkit SB-104A is said to have
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> bought with it from
> Heathkit as being an amplified mic, but I could be wrong.
>
> How much output do you see from your mics? Is there any
> flaws in my thinking ?
>
> 73,
>
> WA6NEQ (Bill)

Sounds high to me too. The highest output non-amplified
mic I know of is the Astatic D-104 which is rated at -45db
below 1 volt per microbar sound pressure. This is a very old
standard for high impedance mics. A microbar is equivalent
to 10 dynes/cm^2, now stated in Pascals. This pressure was
chosen because it is an average of the peak pressure of male
speech at one foot. Most microphones are around 10db lower
than the D-104.
I just measured the output of four microphones using a
scope. The mics were:
Astatic D-104
Electro-Voice 635 dynamic on a matching transformer
Electro-Voice 602-D close talking mic.
Shure 55S cardioid dyamic
The 602-D, which is used right against the mouth puts out
over a volt but the others don't come close. The D-104 is
the next highest with about 60mv P-P at around 8 inches but
much more when used close.
The Heath spec is probably for RMS voltage and I am
looking at peak-to-peak. The close-talking EV mic is the
only one that would put out enough.
An amplified mic should easily meet the requirements of
the TX but perhaps it was intended to be used with a close
talking mic of some sort.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4590. Re: [DrakeRadio] general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-01 21:29:37 UTC
From: William Houghton
Topic: 4588 Message: 4590

Hi Richard,

I measured my D-104 unamplified at about 50mVp-p depending on distance from the mouth. I also looked back at the Heath specs in the Ops manual and found that Heathkit specs the mic requirements as -45db to -55dB @1KHz, Z = 25K, about 1.6 to 1.8mV. (hmmm is 0dB for a mic 1Vrms or 1Vp-p ?). This suggests that it should be pretty easy though to drive the audio from most unamplified mics.

I'm wondering now if the 150mVp-p bench test was chosen because it is relatively easy to get at the lab bench whereas 1.5mV might be more difficult for the average ham to do (back in 1977) ?

I might be taking a look at the ALC circuit soon, hmmmm.

73, Bill

From: Richard Knoppow <1oldlens1@ix.netcom.com>
To: DrakeRadio@yahoogroups.com
Sent: Mon, November 1, 2010 1:04:39 PM
Subject: Re: [DrakeRadio] general question on microphones

----- Original Message -----
From: "William Houghton" <rdrbill@pacbell.net>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 01, 2010 10:01 AM
Subject: [DrakeRadio] general question on microphones

> Hi fellow Drakies,
>
> My question today is a general one on mics stemming from
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> non-Drake radio (gasp). However it is related to the Drake
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> WA6NEQ (Bill)

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standard for high impedance mics. A microbar is equivalent
to 10 dynes/cm^2, now stated in Pascals. This pressure was
chosen because it is an average of the peak pressure of male
speech at one foot. Most microphones are around 10db lower
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The Heath spec is probably for RMS voltage and I am

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only one that would put out enough.
An amplified mic should easily meet the requirements of
the TX but perhaps it was intended to be used with a close
talking mic of some sort.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4591. Add-on ALC indicator?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 00:48:25 UTC
From: Gary
Topic: 4591 Message: 4591

All this talk about microphone levels reminded me of another
question...
Since the Drakes don't have an ALC level indicator or metering,
has anyone come up with a good modification for one? I seem
to remember something about an LED mod in the distant past.

73 and TIA,
Gary
WB6OGD

4592. Re: [DrakeRadio] general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 01:38:42 UTC
From: Richard Knoppow
Topic: 4588 Message: 4592

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 01, 2010 2:29 PM
Subject: Re: [DrakeRadio] general question on microphones

Hi Richard,

I measured my D-104 unamplified at about 50mVp-p depending
on distance from the
mouth. I also looked back at the Heath specs in the Ops
manual and found that
Heathkit specs the mic requirements as -45db to -55dB @1KHz,
Z = 25K, about 1.6
to 1.8mV. (hmmm is 0dB for a mic 1Vrms or 1Vp-p ?). This
suggests that it
should be pretty easy though to drive the audio from most
unamplified mics.

I'm wondering now if the 150mVp-p bench test was chosen
because it is relatively
easy to get at the lab bench whereas 1.5mV might be more
difficult for the
average ham to do (back in 1977) ?

I might be taking a look at the ALC circuit soon, hmmmm.

73, Bill

The standard for microphone levels is for RMS. Where it
mentions peak that is the peak of the speech envelope. The
standard for years has been 10 dynes/cm^2, approximately
equal to a SPL of 94db stated as a power level in dB with
reference to zero being 1 mw in 600 ohms (i.e.. dbm). This
is common for low impedance microphones. High impedance
microphone are often referenced to 1 volt and old references
were often to an acoustic level of one "bar" or sometimes
ten "bars" here bars really meaning microbars. Its possible
to translate one to the other but it takes a lot of
calculation. Typical low impedance dynamic microphones
have an output level in the vicinity of -55 dbm for a force
of 10 dyne/cm^2. High output crystal mics can be as much as
10db higher. The use of a power level reference makes sense
because it is independent of the impedance. Most microphones
are designed to work into an open circuit regardless of the
rated impedance. Microphones with amplifiers of some sort,

including electret and condenser types may be exceptions
although they may also be designed to work into an open
circuit. Carbon microphones _are_ amplifiers so their
operating conditions are different.
As to the last point, generating type microphones
(crystal, moving coil dynamic, ribbon, magnetic) have about
the same output level now as they did seventy years ago.
What has changed is that many microphones now come with
built-in amplifiers, or electronic impedance matchers, and
modern solid state circuits can be designed to work directly
from low impedances without the matching transformers needed
by electron tube amplifiers.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4593. Re: [DrakeRadio] Add-on ALC indicator?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 01:40:35 UTC
From: Richard Knoppow
Topic: 4591 Message: 4593

----- Original Message -----
From: "Gary" <garywinblad@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 01, 2010 5:48 PM
Subject: [DrakeRadio] Add-on ALC indicator?

> All this talk about microphone levels reminded me of
> another
> question...
> Since the Drakes don't have an ALC level indicator or
> metering,
> has anyone come up with a good modification for one? I
> seem
> to remember something about an LED mod in the distant
> past.
>
> 73 and TIA,
> Gary
> WB6OGD
>
Well, there is a jack on the side of the AC-4 supply
that carries the ALC voltage. Its meant for a linear
amplifier but a high impedance meter will read it and it
will show you when the ALC is working.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4594. Re: Add-on ALC indicator?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 04:16:42 UTC
From: Gary
Topic: 4591 Message: 4594

I thought that was an ALC INPUT.. cuts the T-4X drive
when the external linear goes non-linear.. no?
Oh, maybe you say it shows the internal T-4X ALC level unless
you over drive it with the linear signal..?
Gary

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Gary" <garywinblad@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, November 01, 2010 5:48 PM
> Subject: [DrakeRadio] Add-on ALC indicator?
>
>
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> amplifier but a high impedance meter will read it and it
> will show you when the ALC is working.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4595. Re: [DrakeRadio] Re: Add-on ALC indicator?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 14:36:16 UTC
From: Richard Knoppow
Topic: 4591 Message: 4595

----- Original Message -----
From: "Gary" <garywinblad@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 01, 2010 9:16 PM
Subject: [DrakeRadio] Re: Add-on ALC indicator?

>I thought that was an ALC INPUT.. cuts the T-4X drive
> when the external linear goes non-linear.. no?
> Oh, maybe you say it shows the internal T-4X ALC level
> unless
> you over drive it with the linear signal..?
> Gary
>
It is but its connected to the AVC buss in the T-4 so
that the AVC voltage appears on it. Put a high impedance
meter or scope on it and have a look.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4596. Re: general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 15:49:02 UTC
From: w8nf
Topic: 4588 Message: 4596

The actual output voltage of microphones is, of course, rather dynamic, since the human voice is dynamic. The Collins engineers who compiled the several books on SSB claim that an individual human talker, even when speaking in a monotone, had a dynamic range of about 35-40dB.

Two standards exist for specifying microphone output; one expecting that the mic will be used in sound reinforcement applications. This standard dates back to when all musical entertainment was live: no Memorex. Talking distances was one foot or more. The other standard, for communications, expects a close-talked microphone. Neither standard really accommodated the wide dynamics of the human voice.

I've been developing a speech processor for some time, and absolutely had to know the output voltages, as averages and peaks, so that I could properly design a mic preamp that could handle a wide range of microphones. Accordingly, I made measurements using my own voice.

D-104, crystal version: highest output mic. Up to 2Volts peak when speaking loudly into it. Also has the highest output impedance: I measured 5 MEGohms at 300Hz. This microphone's output voltage will decline rapidly due merely to cable capacitance. Astatic's original recommendation was to use no more than 3 feet of cable: even that short cable will drop the output voltage by half. The output Z is also highly capacitive: a 1Megohm load resistor will reduce the bass output more than the treble output, and will make it sound tinny. This is a difficult microphone to measure because the input Z of an oscilloscope loads it noticeably.

D-104, ceramic version: 500mV peak with a loud voice. Output Z measured 25k ohms from 300Hz to 5kHz, so it can handle a load better. Most D-104s in existence are of this variety.

EV638: 1V with a loud voice. This is a high-Z dynamic mic: I didn't actually measure the Z, but I noted that the output voltage declined slightly with a 10k load resistance.

Electret microphones (all stock Icom mics and most computer/PC gaming headsets): these require bias and have an internal buffer/amplifier. Typ 200mV output, but one measured a full volt. Lowest output Z of any mic, typically 10-20 ohms.

Large-diaphragm dynamic mics (Shure SM58, most studio mics): typ 30-50mV peak. Measured output Z is 150-200 ohms, designed to work into 500-5kohm inputs.

Small-diaphragm dyanmic mics (most Heil products): 10mV if you're lucky. You need good RFI-proofing to use a Heil, since you'll be using a mic preamp with a lot of gain.

For vintage rigs, you really want to use a vintage mic: if you use something modern, you'll have to get involved in some sort of interface circuitry.

Hope that helps...

Dave W8NF

--- In DrakeRadio@yahoogroups.com, William Houghton <rdrbill@...> wrote:
>
> Hi fellow Drakies,
>
> My question today is a general one on mics stemming from bring to life a
> non-Drake radio (gasp). However it is related to the Drake family in that the
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> How much output do you see from your mics? Is there any flaws in my thinking ?
>
> 73,
>
> WA6NEQ (Bill)
>
> [Non-text portions of this message have been removed]
>

4597. Re: [DrakeRadio] Re: general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 16:39:09 UTC
From: William Houghton
Topic: 4588 Message: 4597

Hi Dave,

Thanks for the reply. I'm going to save a copy because I think there is a lot of useful information. I have a D-104 but I don't know whether its the crystal or the ceramic element.

After I wrote my email, I did came across the Heathkit mic spec. Zin of the audio stage is 25K. Mic level should be -45dB to -55dB, about 1.5mV to 5.6mV. Most of the non-amplified vintage mics should be able to drive it.

There is a "marked up" schematic that Heathkit techs used for servicing the SB-104A out on the web. The schematic says to feed a 150mVp-p, 1KHz signal into the mic input and measure the input and output signals of the audio amp stages. Mine matches quite well the Heathkit notes. At 150mV on USB or LSB, the rig will drive to full power out. In my mind, this says the tx audio stage is probably okay.

I guess its on to the balanced modulator.

73,

Bill

From: w8nf <w8nf@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, November 2, 2010 8:49:02 AM
Subject: [DrakeRadio] Re: general question on microphones

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>
>
> My question is about mics. How much output on voice peaks would you expect to
> see on a scope at normal speech levels? I realize that a pretty open ended
> question. My SB-104A seems to be working well now except that it seems to take

> about 150mV of audio at the mic input to drive it to full output. The
> troubleshooting/checkout section of the Heath manual says to feed a 150mVp-p

> 1KHz signal into the input and measure the signal levels at the inputs and
> outputs of the mic amp stages. Mine are fine with 150mV and that 150mV signal
> does drive the rig to full output as measured on a W-4 with a dummy load.
>
>
> It does seem to me that 150mVp-p is a really high output requirement for a mic

> (about -16.5dB ref to 1V). That even seems like a high output for an amplified

> mic based on some specs I have seen for mics. I bought this radio because my
> community college had one back when I first got licensed. It was the first SSB

> station I ever operated. I don't remember the mic that was bought with it from

> Heathkit as being an amplified mic, but I could be wrong.
>
> How much output do you see from your mics? Is there any flaws in my thinking ?

>
> 73,
>
> WA6NEQ (Bill)
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4598. Re: [DrakeRadio] Re: general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-02 20:01:29 UTC
From: Richard Knoppow
Topic: 4588 Message: 4598

----- Original Message -----
From: "w8nf" <w8nf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, November 02, 2010 8:49 AM
Subject: [DrakeRadio] Re: general question on microphones

A couple of notes: 1, a great deal of research into the human voice and its characteristics exists in the scientific literature. The earliest work was probably that done by Bell Labs but there were many others. There are many sources, a good one to begin with is the _Journal of the Acoustical Society of America_ and a second is _Bell System Technical Journal_. Both have compresensive cumulative indexes and are not difficult to find.
Dynamic properly describes a microphone or loudspeaker which relies on a magnetic generator or motor for its operation. This includes such types as moving coil microphones, often called "dynamic", ribbon microphones, and magnetic microphones of both the variable reluctance and moving armature varieties. For the most part these have inherently low generator impedance and rely on transformers to increase the impedance to a useable level. Moving coil microphones typically have an impedance on the order of 20 to 50 ohms but higher impedance voice coils can be wound. They can be used directly into a matching transformer. Ribbon microphones have impdeances on the order of 10 ohms or less and invariably have an internal transformer. Magnetic microphones, like magnetic earphones, can be wound for high impedance directly but are more often like moving coil mics, that is they have an internal matching transformer.
All of these types are intended to be worked into an essentially high impedance because they are voltage sources and any load will reduce the output level. The usual vacuum tube microphone pre-amplifier used a matching voltage step-up transformer to feed the grid of a tube. While the input was specified to work from some low impedance, usually around 50 ohms or around 200 ohms, the actual load impedance presented to the microphone is on the order of several thousand ohms. It is the microphone which looks like the specified impedance. Ribbon microphones and some moving coil mics, particularly directional ones, have an impedance which varies with frequency usually having a peak at the low frequency resonance. The famous RCA 44BX, when connected as a 250 ohm mic has a resonant rise of around 2.5K at around

40hz. If worked into a resistive load the low frequency response will be affected. Normal pressure operated (non-directional) moving coil microphones have resistance controlled mechanical systems and so have constant approximately resistive electrical impedance. Their frequency response will not be significantly affected by loading but the output level will be reduced.
Crystal and ceramic microphones have extremely high output impedance and look like capacitors. Any load will affect both output level and frequency response. Usually, low end will be reduced. Cable capacitance will also affect both since it will act as a voltage divider with the internal capacitance of the microphone and also tend to reduce the high-frequency output.
In short, any generator microphone, whether it is a crystal, moving coil dynamic, ribbon, or magnetic, should be operated into essentially a high impedance even though a _voltage_ step up transformer is used. Condenser and electret microphones have an electronic amplifier associated with them and the load impedance is whatever the amplifier is designed for. These microphones are not generators but rather control an external source of voltage. In the case of the electret the element carries a permanent charge but is extremely high impedance like a crystal and is also similarly a capacitor so a matching device preferably located right at the element must be used.
Carbon microphones are rare these days but are also not generators. They are variable resistors which when used with an external source of power act as amplifiers. It is the amplification which made them so popular until electronic amplifiers became efficient and small enough to allow the use of electrets and other microphones in communication circuits. Even the best carbon microphones are noisy when compared to other types and have been supplanted in nearly all applications where they once dominated such as telephones.
A couple of after thoughts, the levels noted for the D-104 are considerably higher than my measurements. While my microphone is marked D-104 it is possible its actually has a C-104 (ceramic) element. While the output is higher than any other mic I have it is not quite as high as I would expect. The sound is OK and the impedance measures correctly so I don't think its damaged. When a crystal microphone goes bad its output drops substantially and the impedance becomes partially resistive.
Secondly, a correction: I think I stated that an old standard was 1 volt per bar per square inch. This is wrong, its per square centimeter. When the word _bar_ is used in these old specs it means _microbar_, a bar is equal to one atmosphere of pressure at sea level (nearly 15 lbs per

square foot).

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4599. Broken MN 2700

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-03 00:55:15 UTC
From: Brenton Crowhurst
Topic: 4599 Message: 4599

Just got my new-to- me MN2700 tuner via fed ex.

The plastic shaft connecting the Resistive Cap knob to the Cap itself is broken, right where it enters this double-female piece that's wider (3/4") that holds the "knob shaft" (if you will) to the capacitor shaft --each held in place by a hex-set screw.

Any know an easy fix?

Crazy glue?

Must I take the whole thing apart?

Thanks in advance,

Brenton
VE6IE

This message and any attached documents are only for the use of the intended recipient(s), are confidential and may contain privileged information. Any unauthorized review, use, retransmission, or other disclosure is strictly prohibited. If you have received this message in error, please notify the sender immediately, and then delete the original message. Thank you.

4600. Re: Add-on ALC indicator?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 02:02:40 UTC
From: Gary
Topic: 4591 Message: 4600

Thanks Richard.
I'll take a look at it.
73,
Gary
WB6OGD

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Gary" <garywinblad@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, November 01, 2010 9:16 PM
> Subject: [DrakeRadio] Re: Add-on ALC indicator?
>
>
> >I thought that was an ALC INPUT.. cuts the T-4X drive
> > when the external linear goes non-linear.. no?
> > Oh, maybe you say it shows the internal T-4X ALC level
> > unless
> > you over drive it with the linear signal..?
> > Gary
> >
> It is but its connected to the AVC buss in the T-4 so
> that the AVC voltage appears on it. Put a high impedance
> meter or scope on it and have a look.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4601. How to resurrect an old Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 13:25:05 UTC
From: Larry Sack
Topic: 4601 Message: 4601

Hello All,

Just joined the list, and browsed some of the archived messages, looking for advice on how to bring a Drake TR-4 I inherited back alive. When I got it, it was open on the ham's workbench but it didn't look like it was being worked on. There are receipts where Drake worked on the unit in 1991 replacing finals and various parts.

So, what advice for testing, first powering it up after a long sleep, what to look for in bad parts? The power supply is a homebrew and I will be emphatic about this: I KNOW NOTHING ABOUT DRAKES! There, was that said loudly enough? I have two copies of the instruction manual and schematic, receipts of work done and a unique service document. That service document appears to be an internal Drake testing procedure complete with a technician's handwritten notes.

This may be a long road to bringing it back as I don't have alot of time to devout to this project. I just hate to see it sit another five years without being used. So, as I garner advice and support, I will try to keep the list updated.

So, what would you do with this rig? How would you go about powering it up again?

Thanks in advance for your advice in advance!

Larry, N8QNM

[Non-text portions of this message have been removed]

4602. Re: [DrakeRadio] How to resurrect an old Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 15:18:27 UTC
From: Garey Barrell
Topic: 4601 Message: 4602

Larry -

If you do not have a manual, get one! This is a fairly complex piece of equipment, with multiple controls, that CAN be damaged or destroyed by maladjustment. Set the XMTR GAIN control full CCW, and the FUNCTION switch to SSB. Verify the slide switch on the left side of the cabinet is in the "towards the front" position.

Then I would check the power supply BEFORE connecting it to the transceiver. Verify that you have about 700 VDC, 250 - 300 VDC, 12.6 VAC, and most important, variable negative from about 50 to 100 VDC. Check the negative supply filter cap(s) for age and condition. If NOT _new-ish_ replace them. A negative (BIAS) supply failure can seriously damage the transceiver, even if left in STANDBY. Set BIAS adjustment to maximum negative voltage, which must be at least -75 VDC.

Check the three PA cathode resistors (15 ohm, 1W), the 68 ohm screen resistors and the meter shunt resistor (R45) for value and condition.

If all ok, apply power. If no smoke or other signs of distress (!) increase AF GAIN. You should hear background 'hiss', or if an antenna is connected, signals. If no hiss, verify that all tubes are lit (warm/hot). Just LOOK to see if PA tubes are lit!

IF all ok, turn XMTR GAIN control full CCW, FUNCTION switch to SSB, then while watching the PLATE meter turn the FUNCTION switch to X-CW. Adjust the BIAS voltage for 0.1 A of idle current. If unable to set to 0.1A, remove power and find out why! Do NOT allow plate meter to exceed 0.15A for more than a (very) few seconds.

If idle current can be set to 0.1A, then switch back to SSB.

Unless you are very familiar with tube type transmitters, do not proceed further without a manual. If further troubleshooting is required, keep in mind that there are eight (8) versions of the schematic over the years. While they are all functionally equivalent, there ARE differences.

Commercial message... IF you are going to work on / repair this unit yourself, you might want to consider my Service Supplement CD. It has all eight schematic versions, high resolution scans of the manual, and full color high resolution photographs of the under chassis with all parts identified and referenced to a parts list. Sample pages at my web site below.

Don't hesitate to post questions here on the reflector as you go. There is a wealth of information from some very experienced people available to you. You might also consider skimming through the message archives,

as most subjects have been covered! There is so much that it can be intimidating! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Larry Sack wrote:
>
>
>
> Hello All,
>
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>
> So, what would you do with this rig? How would you go about powering it up again?
>
> Thanks in advance for your advice in advance!
>
> Larry, N8QNM
>
>
>

4603. Wanted: AC-3 or AC-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 15:48:51 UTC
From: bpierfel
Topic: 4603 Message: 4603

Looking for power supply for my T-4XB. Has to be cheap, in need of repair is fine, as long as the transformer isn't bad. Cosmetics are of no concern. My QTH is near Ann Arbor Michigan.
tnx
Bob
kb8tl

4604. Re: [DrakeRadio] Re: general question on microphones

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 21:26:18 UTC
From: Richard Knoppow
Topic: 4588 Message: 4604

----- Original Message -----
From: "w8nf" <w8nf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, November 02, 2010 8:49 AM
Subject: [DrakeRadio] Re: general question on microphones

> The actual output voltage of microphones is, of course,
> rather dynamic, since the human voice is dynamic. The
> Collins engineers who compiled the several books on SSB
> claim that an individual human talker, even when speaking
> in a monotone, had a dynamic range of about 35-40dB.

FWIW, the peak to average ratio of male speech is at
least 10db. Where power is limited as it is in AM or SSB
transmission, a higher average can be gotten by applying
some compression or clipping or both. Also, the power
distribution in speech is not ideal for maximum articulation
especially where there is interfering noise. Most of the
power in speech is below about 1000 hz while it is the
frequencies above 1000 hz that mostly contribute to
articulation. Further, the power falls off with frequency
above about 1khz at about a 6db/octave rate. This is the
reason for the common practice of using microphones with a
rising frequency responce for communication purposes. Also,
transmitting frequencies much below about 1khz is wasteful
of power because there is little or no contribution to
articulation. Now, Bell Labs experiments conducted many
years ago, determined that while frequencies below 1khz did
not contribute to articulation they did result in
naturalness and telephone subscribers found circuits that
cut off at too high a frequency unacceptable. As a result
the telephone company set the low frequency cut-off at
around 250hz. For the high end the articulation falls off
slowly as the high limit is lowered from around 10khz until
it reaches around 2500hz below which it begins to fall off
more rapidly. If set at about 1 khz the articulation becomes
very poor. The 80 percent articulation point is around
2500hz and it increases to around 90 percent at about 3500
hz. Articulation with only a high pass filter is still close
to 90 percent with a 1 khz cut off.
So, for transmission of understandable speech through a
power limited medium its advantageous to limit the bandwidth
to around 300 to 3000 hz and to provide an additional high
pass filter of about 6db/octave over that whole range. It is
also advantageous to provide for some reduction of the peak

to average power ratio in speech. About 6db of clipping will make a substantial difference but more can be applied. Some sixty years ago Licklidder and his associates published a paper in the _Journal of the Acoustic Society of America_ showing that _infinite_ clipping could be applied to speech and still retain articulation at a very high level. The speech was first passed through a differentiator, then clipped, then passed through an integrator. The differentiator is a simple 6db/ocatave high pass filter and the integrator a simple 6db/octave low pass filter, the "cut off" frequencies of the low pass being above the range of interest and the high pass below the range of interest so that the curves applied to the entire spectrum. The articulation of such processed speech is less than unprocessed speech in the absense of noise but much better when noise is present.

The use of a compressor combined with a clipper can result in lower apparent distortion and greater naturalness of the processed speech while still yielding substantial power gain and improved articulation in the presense of noise. The compressor keeps the level into the clipper fairly constant so that less clipping can be used. The clipper essentially removes the short-term peaks while the compressor compensates for longer term variations. For practical use a "noise gate" can be added which limits the gain of the compressor so that it does not bring up background noise too much.

Note that the differentiator and integrator used around the clipper are in addition to any spectrum shaping filter used to compensate for the power distribution in the voice. This latter can be simply a microphone with rising frequency response or an additional filter where a flat frequency responce mic is used.

Note that there are many variations of clippers including those what work on a radio frequency envelope. The later may result in less dicernable distortion although they probably still have intermodulation distortion.

All processors introduce distortion, that is actually their purpose, but the naturalness or pleasantness of the output can vary a lot with the design.

A personal bug-a-boo, most broadcast stations, especially AM stations, use much more processing than has any benefit, they just sound bad.

There is a perfectly enormous amount of material about speech characteristics in the technical and scientific literature. I have not tried a web search but I have no doubt that anyone who is curious will find much more than they really wanted to know.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4605. Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 22:35:30 UTC
From: Bob Macklin
Topic: 4605 Message: 4605

Richard Knoppow brings up good points about speech processing in communications.

The older ARRL handbooks have sections on this subject. I have built both tube and transistor speech processors. If you need a mike preamp you might just as well have a speech processor.

Look at the voice waveform on a scope. That big spike the is followed by a bunch of lower level waves is the primary problem. The spike can cause over modulation before the part carrying the intelligence is strong enough to be useable. The solution is to compress or clip it. The better speech processors allow you to adjust the clipping level according to band conditions. If you have a quiet band less clipping is required that when the bands are noisy.

Communications quality is not intended to be Hi-Fi!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 2:26 PM
Subject: Re: [DrakeRadio] Re: general question on microphones

----- Original Message -----
From: "w8nf" <w8nf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, November 02, 2010 8:49 AM
Subject: [DrakeRadio] Re: general question on microphones

> The actual output voltage of microphones is, of course,
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--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4606. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 22:46:55 UTC
From: William Houghton
Topic: 4605 Message: 4606

or you can just get a KW amplifier -:)

From: Bob Macklin <macklinbob@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, November 4, 2010 3:35:30 PM
Subject: [DrakeRadio] Speech Processing (was general question on microphones)

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Bob Macklin
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----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 2:26 PM
Subject: Re: [DrakeRadio] Re: general question on microphones

----- Original Message -----
From: "w8nf" <w8nf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, November 02, 2010 8:49 AM
Subject: [DrakeRadio] Re: general question on microphones

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Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4607. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 23:02:13 UTC
From: Bob Macklin
Topic: 4605 Message: 4607

How about a KW amplifier with SPEECH PROCESSING!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 3:46 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

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_____
From: Bob Macklin <macklinbob@msn.com>
To: DrakeRadio@yahoogroups.com
Sent: Thu, November 4, 2010 3:35:30 PM
Subject: [DrakeRadio] Speech Processing (was general question on microphones)

Richard Knoppow brings up good points about speech processing in communications.

The older ARRL handbooks have sections on this subject. I have built both tube and transistor speech processors. If you need a mike preamp you might just as well have a speech processor.

Look at the voice waveform on a scope. That big spike the is followed by a bunch of lower level waves is the primary problem. The spike can cause over modulation before the part carrying the intelligence is strong enough to be useable. The solution is to compress or clip it. The better speech processors allow you to adjust the clipping level according to band conditions. If you have a quiet band less clipping is required that when the bands are noisy.

Communications quality is not intended to be Hi-Fi!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 2:26 PM
Subject: Re: [DrakeRadio] Re: general question on microphones

----- Original Message -----
From: "w8nf" <w8nf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, November 02, 2010 8:49 AM
Subject: [DrakeRadio] Re: general question on microphones

> The actual output voltage of microphones is, of course,
> rather dynamic, since the human voice is dynamic. The
> Collins engineers who compiled the several books on SSB
> claim that an individual human talker, even when speaking
> in a monotone, had a dynamic range of about 35-40dB.

FWIW, the peak to average ratio of male speech is at least 10db. Where power is limited as it is in AM or SSB transmission, a higher average can be gotten by applying some compression or clipping or both. Also, the power distribution in speech is not ideal for maximum articulation especially where there is interfering noise. Most of the power in speech is below about 1000 hz while it is the frequencies above 1000 hz that mostly contribute to articulation. Further, the power falls off with frequency above about 1khz at about a 6db/octave rate. This is the reason for the common practice of using microphones with a rising frequency responce for communication purposes. Also, transmitting frequencies much below about 1khz is wasteful of power because there is little or no contribution to articulation. Now, Bell Labs experiments conducted many years ago, determined that while frequencies below 1khz did not contribute to articulation they did result in naturalness and telephone subscribers found circuits that cut off at too high a frequency unacceptable. As a result the telephone company set the low frequency cut-off at around 250hz. For the high end the articulation falls off slowly as the high limit is lowered from around 10khz until it reaches around 2500hz below which it begins to fall off more rapidly. If set at about 1 khz the articulation becomes very poor. The 80 percent articulation point is around 2500hz and it increases to around 90 percent at about 3500 hz. Articulation with only a high pass filter is still close to 90 percent with a 1 khz cut off.
So, for transmission of understandable speech through a power limited medium its advantageous to limit the bandwidth to around 300 to 3000 hz and to provide an additional high pass filter of about 6db/octave over that whole range. It is also advantageous to provide for some reduction of the peak to average power ratio in speech. About 6db of clipping will make a substantial difference but more can be applied. Some sixty years ago Licklidder and his associates published a paper in the _Journal of the Acoustic Society of America_ showing that _infinite_ clipping could be applied to speech and still retain articulation at a very high level. The speech was first passed through a differentiator, then

clipped, then passed through an integrator. The
differentiator is a simple 6db/ocatave high pass filter and
the integrator a simple 6db/octave low pass filter, the "cut
off" frequencies of the low pass being above the range of
interest and the high pass below the range of interest so
that the curves applied to the entire spectrum. The
articulation of such processed speech is less than
unprocessed speech in the absense of noise but much better
when noise is present.
The use of a compressor combined with a clipper can
result in lower apparent distortion and greater naturalness
of the processed speech while still yielding substantial
power gain and improved articulation in the presense of
noise. The compressor keeps the level into the clipper
fairly constant so that less clipping can be used. The
clipper essentially removes the short-term peaks while the
compressor compensates for longer term variations. For
practical use a "noise gate" can be added which limits the
gain of the compressor so that it does not bring up
background noise too much.
Note that the differentiator and integrator used around
the clipper are in addition to any spectrum shaping filter
used to compensate for the power distribution in the voice.
This latter can be simply a microphone with rising frequency
response or an additional filter where a flat frequency
responce mic is used.
Note that there are many variations of clippers
including those what work on a radio frequency envelope. The
later may result in less dicernable distortion although they
probably still have intermodulation distortion.
All processors introduce distortion, that is actually
their purpose, but the naturalness or pleasantness of the
output can vary a lot with the design.
A personal bug-a-boo, most broadcast stations,
especially AM stations, use much more processing than has
any benefit, they just sound bad.
There is a perfectly enormous amount of material about
speech characteristics in the technical and scientific
literature. I have not tried a web search but I have no
doubt that anyone who is curious will find much more than
they really wanted to know.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

4608. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-04 23:32:45 UTC
From: William Houghton
Topic: 4605 Message: 4608

ooooh, now you're talkin' !

From: Bob Macklin <macklinbob@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, November 4, 2010 4:02:13 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

How about a KW amplifier with SPEECH PROCESSING!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 3:46 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

or you can just get a KW amplifier -:)

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To: DrakeRadio@yahoogroups.com
Sent: Thu, November 4, 2010 3:35:30 PM
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K5MYJ
Seattle, Wa.
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To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 2:26 PM
Subject: Re: [DrakeRadio] Re: general question on microphones

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From: "w8nf" <w8nf@...m>
To: <DrakeRadio@yahoogroups.com>
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naturalness and telephone subscribers found circuits that
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around 250hz. For the high end the articulation falls off
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Note that the differentiator and integrator used around the clipper are in addition to any spectrum shaping filter used to compensate for the power distribution in the voice. This latter can be simply a microphone with rising frequency response or an additional filter where a flat frequency responce mic is used.
Note that there are many variations of clippers including those what work on a radio frequency envelope. The later may result in less dicernable distortion although they probably still have intermodulation distortion.
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A personal bug-a-boo, most broadcast stations, especially AM stations, use much more processing than has any benefit, they just sound bad.
There is a perfectly enormous amount of material about

speech characteristics in the technical and scientific literature. I have not tried a web search but I have no doubt that anyone who is curious will find much more than they really wanted to know.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

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4609. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 01:18:45 UTC
From: Richard Knoppow
Topic: 4605 Message: 4609

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 04, 2010 3:46 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

or you can just get a KW amplifier -:)

Well, suppose the processing brings up the _average_ level ten db. That is possible with a combination of compression and clipping. That is the equivalent of increasing power ten times.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4610. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 01:28:33 UTC
From: Bob Macklin
Topic: 4605 Message: 4610

I have been planning to build one for my DX-60. And I could use it with my T4X.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 6:18 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 04, 2010 3:46 PM
Subject: Re: [DrakeRadio] Speech Processing (was general
question on microphones)

or you can just get a KW amplifier -:)

Well, suppose the processing brings up the _average_
level ten db. That is possible with a combination of
compression and clipping. That is the equivalent of
increasing power ten times.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4611. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 01:43:35 UTC
From: Richard Knoppow
Topic: 4605 Message: 4611

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 04, 2010 6:28 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

>I have been planning to build one for my DX-60. And I could
>use it with my T4X.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

A processor or a KW amp??? :-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4612. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 01:48:15 UTC
From: Bob Macklin
Topic: 4605 Message: 4612

A speech processor. I had one back in the DARK AGES when tube radios were more common than solid state radios.

Should I include a "ROGER BEEP"?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 6:43 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 04, 2010 6:28 PM
Subject: Re: [DrakeRadio] Speech Processing (was general
question on microphones)

>I have been planning to build one for my DX-60. And I could
>use it with my T4X.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

A processor or a KW amp??? :-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

4613. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 01:52:35 UTC
From: Don Cunningham
Topic: 4605 Message: 4613

Bob,
A Roger Beep is REQUIRED if you splatter alllllllll over the band like a CB'er, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4614. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 02:41:02 UTC
From: Carl McLelland
Topic: 4605 Message: 4614

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 04, 2010 6:52 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

Bob,
A Roger Beep is REQUIRED if you splatter alllllllll over the band like a CB'er, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4615. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 03:13:10 UTC
From: Richard Knoppow
Topic: 4605 Message: 4615

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 04, 2010 6:48 PM
Subject: Re: [DrakeRadio] Speech Processing (was general question on microphones)

>A speech processor. I had one back in the DARK AGES when
>tube radios were more common than solid state radios.
>
> Should I include a "ROGER BEEP"?
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.

I recently rescued a processor I built some forty years ago. Its was built from a design in an engineering magazine, I have no memory now of which. It is a sylabic rate compressor followed by a limiter. It still works (after chasing down a cold solder joint) and works on my Drake T-4XB. It probably sounds awful but does not seem to splatter and sure makes the power meter in the dummy load go up. I set the clipper for 6db using a scope. That's enough to take any overshoot off the compressor. I may still have the original magazine in storage but so much of that stuff got lost in moves that I don't count on it. The rig I used it on originally (but not much) was a combination of home brew and modified surplus with a Barker & Williamson SSB generator a friend gave me. It made very nice sounding SSB. I still have it. Perhaps one day I will find the B&W transmitter it went with. My friend originally drove it with a Collins 310B-2 and the generator drove a linear running a PL-172.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4616. restoring a Drake

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-05 23:26:50 UTC
From: Jack Dunigan
Topic: 4616 Message: 4616

I highly recommend Gary's resource material. It is more than worth the price!

[Non-text portions of this message have been removed]

4617. Re: [DrakeRadio] Speech Processing (was general question on microphones)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-06 02:00:26 UTC
From: Jim Shorney
Topic: 4605 Message: 4617

On Thu, 4 Nov 2010 20:52:35 -0500, Don Cunningham wrote:

>A Roger Beep is REQUIRED if you splatter alllllllll over the band like a CB'er, HI.

I run a "courtesy beep" on my 10 Meter mobile rig, becuase it came with the radio. It never ceases to amaze me how many hams will break the law by not IDing with their callsign when they try to harass me for doing something that is perfectly legal.

It might surpise some people to hear that the first "Roger Beep" circuit I ever saw was a construciton article in a ham magaizine. The author had designed it to sound exactly like the TX/RX changeover beeps on NASA astronaut transmissions.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4618. TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-07 18:00:45 UTC
From: VE3FMC
Topic: 4618 Message: 4618

Ok this is a weird situation that started to occur yesterday.

I have a TR-4C which I use with a RV-4. Up until yesterday there was no issues with this setup.

However yesterday I turned both units on and I noticed I could tune into a QSO with the RV-4 set on the Transmit/Rcve setting. However if I moved the main tuning dial on the rig I could hear it tuning past other QSO's.

Now what would cause this problem to occur?

I took the RV-4 off the TR-4C this morning and hooked up the MS-4 and the rig is stable and works as it should.

Can anyone shed some light on this subject?

Thanks, 73, Rick VE3FMC

4619. Re: [DrakeRadio] TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-07 18:25:13 UTC
From: Garey Barrell
Topic: 4618 Message: 4619

Rick -

Does the EXTERNAL PTO light on the front of the TR-4C come on?

If not, then possibly a dirty Pin 2 or a switching problem in the RV-4.
Much less likely R16 in the RV-4 has gone way up in value. The control
line is Pin 2 of the REMOTE connector, and it should be zero to enable
the PTO inside the TR-4C. A positive voltage from the RV-4 via Pin 2
disables the internal PTO.

If EXT PTO light does come on, most likely problem is a blown Q4 in the
TR-4C.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

VE3FMC wrote:
> Ok this is a weird situation that started to occur yesterday.
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> I have a TR-4C which I use with a RV-4. Up until yesterday there was no issues with this setup.
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> However yesterday I turned both units on and I noticed I could tune into a QSO with the RV-4 set on the Transmit/Rcve setting. However if I moved the main tuning dial on the rig I could hear it tuning past other QSO's.
>
> Now what would cause this problem to occur?
>
> I took the RV-4 off the TR-4C this morning and hooked up the MS-4 and the rig is stable and works as it should.
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> Thanks, 73, Rick VE3FMC
>
>
>

4620. Re: TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-07 21:41:54 UTC
From: VE3FMC
Topic: 4618 Message: 4620

Thanks for the reply Garey.

That was the problem. When operating the RV-4 the VFO light on the TR-4C was ON.

I had moved the rig around yesterday. When I hooked the RV-4 back up today the VFO light went off when I turned on the RV-4 when I put the RV-4 in the RCV and RCV/XMT switch on.

When I moved the TR-4C back into the operating position on the desk the VFO light came back on when the RV-4 was on.

So I wiggled the VFO plug on the bottom of the rig and the light went out. So it was a bad connection on the pins of the VFO plug. Or a bad solder joint on the VFO plug. I will inspect the connections when I get a chance.

But for now everything is back to normal. I do not use this old rig often but when I fire it up I do enjoy talking on it on 40 meters.

Again Thanks for your help. That is why I joined this group because everyone is so helpful and most of you have a lot of knowledge about the old Drakes.

73, Rick VE3FMC

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Rick -
>
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> disables the internal PTO.
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> If EXT PTO light does come on, most likely problem is a blown Q4 in the
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> Glen Allen, VA
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> > Thanks, 73, Rick VE3FMC
> >
> >
> >
>

4621. Re: [DrakeRadio] Re: TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-07 21:54:23 UTC
From: Garey Barrell
Topic: 4618 Message: 4621

OK. The same control voltage (Pin 2) turns the EXT PTO light ON and the internal PTO OFF. So if that light doesn't go ON, the internal PTO is still running, resulting in your 'dual receive' situation!

The Cinch-Jones connectors are prone to corrosion on the 'blades', and this is a pretty low voltage point. Usually just plugging and unplugging a couple of times will scrape them clean. Some clean them with pencil erasers, but I just put a drop of DeoxIT on each side of each one and they seem to work 'forever'.

Glad you got it fixed!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
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>
>> Rick -
>>

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>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-B, C-Line&
>> TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> VE3FMC wrote:
>>
>>> Ok this is a weird situation that started to occur yesterday.
>>>
>>> I have a TR-4C which I use with a RV-4. Up until yesterday there was no issues with this setup.
>>>
>>> However yesterday I turned both units on and I noticed I could tune into a QSO with the RV-4 set on the Transmit/Rcve setting. However if I moved the main tuning dial on the rig I could hear it tuning past other QSO's.
>>>
>>> Now what would cause this problem to occur?
>>>
>>> I took the RV-4 off the TR-4C this morning and hooked up the MS-4 and the rig is stable and works as it should.
>>>
>>> Can anyone shed some light on this subject?
>>>
>>> Thanks, 73, Rick VE3FMC
>

4622. Re: TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-08 13:36:52 UTC
From: arsnf7z
Topic: 4618 Message: 4622

this same problem can occur with the T4XC and R4C combo if there is some fault in the INJ cable. there is a DC bias that facilitates control of the active PTO and a bad cable can cause these same issues.

I hesitate, but I should report that the low-capacitance cables I purchased from WB4HFN have been problematic and caused several related issues to surface. the cables have rather cheap RCA phono connectors with an odd plating that works poorly. making my own cables with high quality connectors and then alignment to match INJ levels solved all of the problems.

NF7Z, daniel

4623. Re: [DrakeRadio] TR4C with RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-09 23:13:37 UTC
From: Paul Pollock
Topic: 4618 Message: 4623

To RIck VE3FMC,

I have a TR-4 with a working RV-3. And what you are getting is what happens to me. When the RV-3 is set to any seeing that allows it to operate in receive mode, both the RV-3 and the TR-4 dial works.

I personally prefer this "feature", as it lets me monitor one frequency and look for another one simultaneously <grin>. But, lately, I have gone back to not using the RV-3 as I rarely have a great need to monitor two frequencies.

Have fun and good luck <grin>!

-Paul Pollock
KD7BWB

On Nov 7, 2010, at 11:00 AM, VE3FMC wrote:

> Ok this is a weird situation that started to occur yesterday.
>
> I have a TR-4C which I use with a RV-4. Up until yesterday there was no issues with this setup.
>
> However yesterday I turned both units on and I noticed I could tune into a QSO with the RV-4 set on the Transmit/Rcve setting. However if I moved the main tuning dial on the rig I could hear it tuning past other QSO's.
>
> Now what would cause this problem to occur?
>
> I took the RV-4 off the TR-4C this morning and hooked up the MS-4 and the rig is stable and works as it should.
>
> Can anyone shed some light on this subject?
>
> Thanks, 73, Rick VE3FMC
>
>

[Non-text portions of this message have been removed]

4624. WTB - Drake L7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-13 19:54:06 UTC
From: chvjillson
Topic: 4624 Message: 4624

Hi folks:

I'm looking for a Drake L7 amplifier ... ideally I'd like to find an export model that includes 10 meter coverage from the factory. If you have one you're looking to sell, would you let me know?

Thanks, and 73's!

Clark
KB9SJD

4625. Re: WTB - Drake L7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-13 20:24:21 UTC
From: stanleyjungleib@rocketmail.com
Topic: 4624 Message: 4625

--- In DrakeRadio@yahoogroups.com, "chvjillson" <chvjillson@...> wrote:
>
> Hi folks:
>
> I'm looking for a Drake L7 amplifier ... ideally I'd like to find an export model that includes 10 meter coverage from the factory. If you have one you're looking to sell, would you let me know?
>
> Thanks, and 73's!
>
> Clark
> KB9SJD
>
I could be talked out of mine; it's mint condition (I'm migrating to Icom), I just put in PEQ's LEDs to make the meters readable again. I would have to include the spare matched set of 500zs. stanley@... WA6LVC

4626. Re: WTB - Drake L7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-13 20:51:20 UTC
From: stanleyjungleib@rocketmail.com
Topic: 4624 Message: 4626

--- In DrakeRadio@yahoogroups.com, "stanleyjungleib@..." <stanleyjungleib@...> wrote:
>
>
>
> --- In DrakeRadio@yahoogroups.com, "chvjillson" <chvjillson@> wrote:
> >
> > Hi folks:
> >
> > I'm looking for a Drake L7 amplifier ... ideally I'd like to find an export model that includes 10 meter coverage from the factory. If you have one you're looking to sell, would you let me know?
> >
> > Thanks, and 73's!
> >
> > Clark
> > KB9SJD
> >
> I could be talked out of mine; it's mint condition (I'm migrating to Icom), I just put in PEQ's LEDs to make the meters readable again. stanley@... WA6LVC
>

4627. Need 14.6mc crystal for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-14 02:10:32 UTC
From: n5kat
Topic: 4627 Message: 4627

Appears my R-4B 80m band crystal has up and died. Anybody have a spare?

Joe N5KAT

4628. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-14 21:44:53 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4628

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4629. FS: Marker Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-15 12:12:29 UTC
From: Bry Carling
Topic: 4629 Message: 4629

For sale: Marker Crystals

100 kHz - $19.00 each
1.000 MHz - $16.00 each
10.000 MHz - $16.00 each

These are full size, hc6u, or wire lead crystals. In the case of
the 100kHz crystals, they are new manufacture, top quality
"tall hc6/u" crystals known as hc13/u. Some of the others are available
with wire leads. Shipping is additional.

73 de AF4K, Bry

http://www.af4k.com/hc6u_crystals.htm

[Non-text portions of this message have been removed]

4630. TR4C BAL MOD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-15 20:33:06 UTC
From: Dick KF4NS
Topic: 4630 Message: 4630

Still puting the finishing touches on the ole rig and was using Garey's great CD for reference while determining the real condition of the filters. That completed (one is bad), then I proceeded to check the adjustment of the BAL MOD for proper CXR BAL as per the section 5 steps for alignment.

Right off the diving board I got twisted around. It says to adjust the bias according to the earlier steps in para 5-6 which says adjust for .1A, now key the rig in X-CW and if the plate current exceeds .15A adjust RF TUNE for .15 and if it is less than .15A adjust the CXR BAL pot for .15A , what is the deal with this ".15A" ?

Why do that after setting the bias for 1.0A at the beginning? I tried to adjust the pot and it does nothing. How critical should the reading be while adjusting the pot? How many turns are there to this pot?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4631. Re: [DrakeRadio] TR4C BAL MOD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-15 21:55:14 UTC
From: Richard Knoppow
Topic: 4630 Message: 4631

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>;
<drake@...>
Sent: Monday, November 15, 2010 12:33 PM
Subject: [DrakeRadio] TR4C BAL MOD

> Still puting the finishing touches on the ole rig and was
> using
> Garey's great CD for reference while determining the real
> condition of
> the filters. That completed (one is bad), then I proceeded
> to check
> the adjustment of the BAL MOD for proper CXR BAL as per
> the section 5
> steps for alignment.
>
> Right off the diving board I got twisted around. It says
> to adjust the
> bias according to the earlier steps in para 5-6 which says
> adjust for
> .1A, now key the rig in X-CW and if the plate current
> exceeds .15A
> adjust RF TUNE for .15 and if it is less than .15A adjust
> the CXR BAL
> pot for .15A , what is the deal with this ".15A" ?
>
> Why do that after setting the bias for 1.0A at the
> beginning? I tried
> to adjust the pot and it does nothing. How critical should
> the reading
> be while adjusting the pot? How many turns are there to
> this pot?
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
My experience is with the T4-XB not the C but the
balanced modulator is about the same in both. I also don't
quite understand the above. The balanced modulator is
adjusted for null in SSB with no audio. There are two
adjustments, the pot and a capacitor. The null is very
definite. It should be set using a scope on the output of
the TX on a dummy load or a receiver sampling the output.

After tuning up in Tune or CW switch to SSB, the sideband does not matter. The exact frequency of the carrier oscillator must first be set with the modulator unbalanced so that the carrier is of equal strength on both sidebands. That assumes the filters have the same curve, meaning they are working right. Once you have this set adjust the balance pot for the best null you can get. If its not complete adjust the capacitor to improve it. You may have to juggle these two because they interact a bit. The pot has ten turns and will normally give you a null fairly close to the center of the range. If you can't get a null, or if one or both of the adjustments is close to the limit of its range something is wrong.
Quiescent or no-signal plate current can be set in "Tune" with the audio control at minimum but is probably closer if set in SSB with no audio but with the push-to-talk keyed. When the carrier null is correctly adjusted it will not change the no-signal current at all. The balanced modulator in the 4 series is very good and will actually meet its specs which are considerably better than most of the competition including modern stuff.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4632. Re: [DrakeRadio] TR4C BAL MOD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-15 23:27:35 UTC
From: Don Cunningham
Topic: 4630 Message: 4632

Dick,
First, you SHOULD be setting the bias in SSB, with mic gain ALL the way CCW, so there should be NO current except the idle current. When you go to X/CW, you are actually keying the rig and should have some output. It will often be more than .15 when you key it up in CW, but not with the "Gain" control fully CCW in my opinion. You may have to bring the gain up clockwise a bit to get .15A current. That make any sense?? Most of the Carrier Balance pots in Drake gear are 10 turn, so it may take a turn or two to notice a difference. I am NOT sure about the pot in the TR4C, as I have not been into mine yet. I will be there thought, as it now is NOT transmitting. :>(
73,
Don, WB5HAK

4633. Re: [DrakeRadio] TR4C BAL MOD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-15 23:28:37 UTC
From: Don Cunningham
Topic: 4630 Message: 4633

One other thought. They want you to keep the rig under .15A (150 mils) to protect the finals from damage if you get too LONG in the tuning, hi.
73,
Don, WB5HAK

4634. Re: [DrakeRadio] TR4C BAL MOD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-16 03:18:20 UTC
From: Richard Knoppow
Topic: 4630 Message: 4634

```
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, November 15, 2010 1:55 PM
Subject: Re: [DrakeRadio] TR4C BAL MOD

>
Whoops! Disregard my post, I read T-4 not TR-4 so my post
is probably not relevant at all.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

4635. TR4C TX trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-17 23:29:49 UTC
From: Dick KF4NS
Topic: 4635 Message: 4635

I am at my wits' end ! Just when I thought I had almost all of my ducks in a row this happens.

I decided to tune up on every band, upper and lower, so I could put the wraps on it. Well, it didn't go well.

Here are the results:

80M no output on LSB, S/B SW in ccw, USB ok,
40M no output USB, S/B SW cw, LSB ok.
20M full output on USB/LSB
15M no output on USB, S/B SW ccw, LSB ok.
10M no output USB, S/B SW ccw, LSB ok.

All tests run with dummy load and viewed on O'scope. CXR OSC reads 8.99993mhz on counter. CXR BAL tests good. Bias reads normal on all bands, both S/B's. RF TUNE peaks on all bands, USB and LSB using XTAL CAL. I thought, well, must be a bad filter but I can't rationalize it.

I am ready to just stick it in the closet and forget about it for the next 10 years (should I live so long)

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4636. Re: TR4C TX trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-18 03:12:33 UTC
From: arsnf7z
Topic: 4635 Message: 4636

Dick,

the filters are bidirectional. that is, receive and transmit signals are passed in opposite directions. so, if there were a filter problem you would likely experience it in receive also. with an oscilloscope available, you should be able to trace the 9.0Mhz oscillator to the filters and see if the switching is behaving correctly. which it sounds like it is since you can apparently transmit 20-meter USB and LSB.

your problem is indicative of a 9.0Mhz oscillator that is off frequency and therefore has skewed the mixer products out of the passband of one filter, and passing the wrong sideband. however, you claim the oscillator is exactly 9.0Mhz .. so I should give this more thought.

tracing the signal with an oscilloscope and a counter, should allow you to find where the USB and LSB signal components end.

NF7Z, daniel

4637. Re: [Drake] TR4C TX trouble

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-18 21:09:43 UTC
From: Dick KF4NS
Topic: 4637 Message: 4637

NEVER MIND, I am the worlds biggest dumb alpha sierra sierra !

It seems like I will never get it through my head how this Drake radio is designed. I keep thinking I can tune in the SIDEBAND X position using X-CW and then switch to the ccw position of the SIDEBAND switch (I corrected the 40M SW position below) and still see power out in the X-CW position.

I keep thinking like HEATH and COLLINS, and others where you can usually switch to CW and hit the key whether you are in USB or LSB during a voice QSO. I just need somebody to hit me up side of the head, but that would just scramble my brain even more I guess.

Thanks for everybody's extreme patience with my ridiculous postings. You are such a great bunch of guys to tolerate my idiotic ramblings.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message ----- >
>
> Message: 1
> Date: Wed, 17 Nov 2010 18:29:49 -0500
> From: "Dick KF4NS" <kf4nsradio@...>
> Subject: [Drake] TR4C TX trouble
> To: "DrakeRadio list" <DrakeRadio@yahoogroups.com>,
> <drake@...>
> Message-ID: <000501cb86af$9330f890$2f01a8c0@HOMEPC>
> Content-Type: text/plain; format=flowed; charset=Windows-1252;
> reply-type=original
>
> I am at my wits' end ! Just when I thought I had almost all of my
> ducks in a row this happens.
>
> I decided to tune up on every band, upper and lower, so I could put
> the wraps on it. Well, it didn't go well.
>
> Here are the results:
>
> 80M no output on LSB, S/B SW in ccw, USB ok,
> 40M no output USB, S/B SW CCW, LSB ok. (MY ORIGINAL POST HAS THE
> WRONG SW POSITION)
> 20M full output on USB/LSB
> 15M no output on USB, S/B SW ccw, LSB ok.
> 10M no output USB, S/B SW ccw, LSB ok.

>
> All tests run with dummy load and viewed on O'scope. CXR OSC reads
> 8.99993mhz on counter. CXR BAL tests good. Bias reads normal on all
> bands, both S/B's. RF TUNE peaks on all bands, USB and LSB using
> XTAL
> CAL. I thought, well, must be a bad filter but I can't rationalize
> it.
>
> I am ready to just stick it in the closet and forget about it for
> the
> next 10 years (should I live so long)
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
>
>
> ------------------------------
>
> ____
> Drake mailing list
> Home: http://mailman.qth.net/mailman/listinfo/drake
> Help: http://mailman.qth.net/mmfaq.html
> Post: mailto:Drake@...
>
>
> End of Drake Digest, Vol 82, Issue 6
> **********************************

4638. MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-19 16:03:45 UTC
From: billykatzz
Topic: 4638 Message: 4638

I finished putting up my homemade quasi-G5RV with homebrew ladderline (quasi, since the ladderline is longer than 31 ft, it's more accurately a ladderline-fed doublet) and dang if I can't get my Drake MN4 matching network to adjust it!

It was a big disappointment for me today when I finally rigged and hooked up the antenna and the sucker loaded up like a rusty bedspring. I initially tried it out with a Balun Designs 1:1 ferrite core balun, then my homebrew airwound 4:1 balun, to try mating it to the short run of 213 into the shack and MN-4 tuner (the MN4 doesn't accept balanced feedline). No dice. I don't know if the problem is the antenna, the ladderline, the coax line, or the MN4 matching network.

I put my 40 meter dipole back up for the time being, but it would be nice to have an antenna that would perform a little better for me on 80 an 20. I've worked quite a few hams who've used G5RV's and they seem to do a pretty good job for them.

I'm stumped. Could there be some problem with the MN4? Shouldn't the unit be able to achieve a decent match going into most impedances? I was thinking about opening it up and checking for any burnt components/contacts. Could excess dust inside affect the tuning? Any advice or assistance would be appreciated.

73

Bill Silverman, NK6Q

4639. Re: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-19 17:38:24 UTC
From: Paul Kraemer
Topic: 4638 Message: 4639

Bill
I use a 102 ft G5RV and it works very well indeed
I have Balun Designs LLC 1:1 choke balun between the 33 ft ladder line (450 ohm commercial stuff) and coax (RG-8)
I have found that the length of coax between the ladder line and rig is touchy to crical. The coax run from bottom of ladder line to rig, in my case, turned out to be near electrical 1/4 wave of coax on 75m and it was very tough to adjust and didn't perform very well. I added 12 ft of RG-8 to the feedline and now it is the best wire antenna my small lot ever had.
The MFJ antenna analyzer is a great asset for resolving problems like that.
When the G5RV is right---it works. Although sometimes you have to refer to it as dipole fed with open wire line. There seems to be some closed minded individuals out there on the bands that absolutely hate them.
Paul K0UYA
PS I tried the antenna fet right at the bottom of the ladder line through a classic open wire tuner (Johnson Matchbox)and it was not a positive experience.
----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, November 19, 2010 10:03 AM
Subject: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches

>I finished putting up my homemade quasi-G5RV with homebrew ladderline
>(quasi, since the ladderline is longer than 31 ft, it's more accurately a
>ladderline-fed doublet) and dang if I can't get my Drake MN4 matching
>network to adjust it!
>
> It was a big disappointment for me today when I finally rigged and hooked
> up the antenna and the sucker loaded up like a rusty bedspring. I
> initially tried it out with a Balun Designs 1:1 ferrite core balun, then
> my homebrew airwound 4:1 balun, to try mating it to the short run of 213
> into the shack and MN-4 tuner (the MN4 doesn't accept balanced feedline).
> No dice. I don't know if the problem is the antenna, the ladderline, the
> coax line, or the MN4 matching network.
>
> I put my 40 meter dipole back up for the time being, but it would be nice
> to have an antenna that would perform a little better for me on 80 an 20.
> I've worked quite a few hams who've used G5RV's and they seem to do a
> pretty good job for them.
>
> I'm stumped. Could there be some problem with the MN4? Shouldn't the
> unit be able to achieve a decent match going into most impedances? I was
> thinking about opening it up and checking for any burnt
> components/contacts. Could excess dust inside affect the tuning? Any

> advice or assistance would be appreciated.
>
> 73
>
> Bill Silverman, NK6Q
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4640. Fw: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-19 17:56:24 UTC
From: Paul Kraemer
Topic: 4640 Message: 4640

Forgot to mention, I do use a tuner with my G5RV
I have tried several, all the type with a roller inductor, all seem to work
OK with it. I have not tried any with just bandswitch.
Paul K0UYA
----- Original Message -----
From: "Paul Kraemer" <elespe@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, November 19, 2010 11:38 AM
Subject: Re: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches

> Bill
> I use a 102 ft G5RV and it works very well indeed
> I have Balun Designs LLC 1:1 choke balun between the 33 ft ladder line
> (450
> ohm commercial stuff) and coax (RG-8)
> I have found that the length of coax between the ladder line and rig is
> touchy to crical. The coax run from bottom of ladder line to rig, in my
> case, turned out to be near electrical 1/4 wave of coax on 75m and it was
> very tough to adjust and didn't perform very well. I added 12 ft of RG-8
> to
> the feedline and now it is the best wire antenna my small lot ever had.
> The MFJ antenna analyzer is a great asset for resolving problems like
> that.
> When the G5RV is right---it works. Although sometimes you have to refer to
> it as dipole fed with open wire line. There seems to be some closed minded
> individuals out there on the bands that absolutely hate them.
> Paul K0UYA
> PS I tried the antenna fet right at the bottom of the ladder line through
> a
> classic open wire tuner (Johnson Matchbox)and it was not a positive
> experience.
> ----- Original Message -----
> From: "billykatzz" <rsilvercat@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, November 19, 2010 10:03 AM
> Subject: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches
>
>
>>I finished putting up my homemade quasi-G5RV with homebrew ladderline
>>(quasi, since the ladderline is longer than 31 ft, it's more accurately a
>>ladderline-fed doublet) and dang if I can't get my Drake MN4 matching
>>network to adjust it!
>>
>> It was a big disappointment for me today when I finally rigged and hooked
>> up the antenna and the sucker loaded up like a rusty bedspring. I

>> initially tried it out with a Balun Designs 1:1 ferrite core balun, then
>> my homebrew airwound 4:1 balun, to try mating it to the short run of 213
>> into the shack and MN-4 tuner (the MN4 doesn't accept balanced feedline).
>> No dice. I don't know if the problem is the antenna, the ladderline, the
>> coax line, or the MN4 matching network.
>>
>> I put my 40 meter dipole back up for the time being, but it would be nice
>> to have an antenna that would perform a little better for me on 80 an 20.
>> I've worked quite a few hams who've used G5RV's and they seem to do a
>> pretty good job for them.
>>
>> I'm stumped. Could there be some problem with the MN4? Shouldn't the
>> unit be able to achieve a decent match going into most impedances? I was
>> thinking about opening it up and checking for any burnt
>> components/contacts. Could excess dust inside affect the tuning? Any
>> advice or assistance would be appreciated.
>>
>> 73
>>
>> Bill Silverman, NK6Q
>>
>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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4641. Re: [DrakeRadio] MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-19 18:25:51 UTC
From: K4GM-George
Topic: 4638 Message: 4641

Bill,

I assume you are using a T4XB or C??? If you are, the pi-network on the transmitter can probably match the antenna on some bands w/o the need for a tuner. Now you might need to install a balun to "convert" the ladder line to coax to screw on to the xmtr. I am using a 135 foot dipole fed with ladder line which is brought into my shack via a 4:1 balun. My T4XC loads beautifully on 80m as does my L4B w/o a tuner. Now on some bands a tuner would definitely help. My point is that an antenna tuner does not tune the antenna; it simply transforms the impedance into one the transmitter will match. I find that many hams not used to using classic gear with pi networks are astounded to see an old xmtr load right up!.

Good luck, 73, George K4GM

On 11/19/2010 11:03 AM, billykatzz wrote:
>
> I finished putting up my homemade quasi-G5RV with homebrew ladderline
> (quasi, since the ladderline is longer than 31 ft, it's more
> accurately a ladderline-fed doublet) and dang if I can't get my Drake
> MN4 matching network to adjust it!
>
> It was a big disappointment for me today when I finally rigged and
> hooked up the antenna and the sucker loaded up like a rusty bedspring.
> I initially tried it out with a Balun Designs 1:1 ferrite core balun,
> then my homebrew airwound 4:1 balun, to try mating it to the short run
> of 213 into the shack and MN-4 tuner (the MN4 doesn't accept balanced
> feedline). No dice. I don't know if the problem is the antenna, the
> ladderline, the coax line, or the MN4 matching network.
>
> I put my 40 meter dipole back up for the time being, but it would be
> nice to have an antenna that would perform a little better for me on
> 80 an 20. I've worked quite a few hams who've used G5RV's and they
> seem to do a pretty good job for them.
>
> I'm stumped. Could there be some problem with the MN4? Shouldn't the
> unit be able to achieve a decent match going into most impedances? I
> was thinking about opening it up and checking for any burnt
> components/contacts. Could excess dust inside affect the tuning? Any
> advice or assistance would be appreciated.
>
> 73
>
> Bill Silverman, NK6Q
>

>

[Non-text portions of this message have been removed]

4642. Re: [DrakeRadio] Need 14.6mc crystal for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-19 23:37:54 UTC
From: Howard T
Topic: 4627 Message: 4642

Joe, have you found a crystal for 80 meters? I have one that did the same as yours and I, too, am looking. Wondered if you found one and where. Thanks.

Howard, WA9RYF
----- Original Message -----
From: n5kat
To: DrakeRadio@yahoogroups.com
Sent: Saturday, November 13, 2010 8:10 PM
Subject: [DrakeRadio] Need 14.6mc crystal for R-4B

Appears my R-4B 80m band crystal has up and died. Anybody have a spare?

Joe N5KAT

[Non-text portions of this message have been removed]

4643. Re: MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-21 16:52:12 UTC
From: Ralph
Topic: 4638 Message: 4643

--- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@...> wrote:
>
> I finished putting up my homemade quasi-G5RV with homebrew ladderline (quasi, since the ladderline is longer than 31 ft, it's more accurately a ladderline-fed doublet) and dang if I can't get my Drake MN4 matching network to adjust it!
>
>

Once you change the feedline from the 30 some feed value, you no longer have a G5RV antenna. YOu just have a random wire type. The 31 feet of feedline is to match the antenna to near 50 ohms. I would go with the 31 feet of open wire and put the choke 1:1 balun and then feed it with the coax.

The MN4 may not have enough range to match an antenna that is really way out of the impedance range.

4644. Is this normal on the SPR-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-21 19:51:24 UTC
From: gonzy1
Topic: 4644 Message: 4644

I just acquired a very good condition SPR-4 receiver with all 23 xtals installed. Reception is pretty good on it, I love listening to hams. My only complain is the background noise. With no antenna connected and the RF gain at max. I get a lot of noise at half the volume, and the S-meter shows zero. If I lower the RF gain to 40 percent or less, the noise is gone, so I assume is not the AF section creating the noise, must be on the IF amp or something. Is this the way your SPR-4 behaves or is something wrong with this radio? Thanks for any help in advance.

4645. Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-21 21:21:32 UTC
From: Bry Carling
Topic: 4645 Message: 4645

Hi guys - I am finally finishing assembly of a Hustler 5TBV Antenna
that I inherited from Doc, KD4E about 3 years ago.

I have almost finished putting it together.

However, I found an EXTRA PIECE that is not discussed or described
in the manual as far as I can see!

It looks like a hose clamp with three fins attached, each about 6" long.

Does anyone know what the intended use of this gadget might be?

Here is the picture:

http://www.af4k.com/extrapiece.jpg

Any clues would be immensely appreciated before I put this puppy
up in the air.

73 de AF4K, Bry

[Non-text portions of this message have been removed]

4646. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-21 21:34:42 UTC
From: Sandy Evans
Topic: 4645 Message: 4646

That piece is the 80m radials. it mounts just under the 80m trap at the top of the antenna.

Tighten down the clamp and then bend the flat pieces to a 90° .

73 es gl

n9pgo - Sandy

--- On Sun, 11/21/10, Bry Carling <bcarling@...> wrote:

From: Bry Carling <bcarling@...>
Subject: [DrakeRadio] Hustler 5TBV Antenna - HELP!
To: AMATEURRADIO@yahoogroups.com, dcboatanchors@..., DCBOATANCHORS@topica.com, drake-radio-operators@yahoogroups.com, drakelist@..., DrakeRadio@yahoogroups.com, Drake-Radios@yahoogroups.com
Date: Sunday, November 21, 2010, 3:21 PM

Hi guys - I am finally finishing assembly of a Hustler 5TBV Antenna
that I inherited from Doc, KD4E about 3 years ago.

I have almost finished putting it together.

However, I found an EXTRA PIECE that is not discussed or described
in the manual as far as I can see!

It looks like a hose clamp with three fins attached, each about 6" long.

Does anyone know what the intended use of this gadget might be?

Here is the picture:

http://www.af4k.com/extrapiece.jpg

Any clues would be immensely appreciated before I put this puppy
up in the air.

73 de AF4K, Bry

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4647. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-21 21:36:51 UTC
From: Gary Woods
Topic: 4645 Message: 4647

On Sun, 21 Nov 2010 16:21:32 -0500, you wrote:

>
>Does anyone know what the intended use of this gadget might be?

According to DX engineering's web site, it mounts just below the top trap,
with the three ears bent outward (horizontally).

http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

I suspect it's a capacitive "hat" you can move up and down for matching?

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

4648. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-22 00:18:37 UTC
From: Ken Burchfield
Topic: 4645 Message: 4648

you may want to use that link and then look for the installation guide to download...
NC/Nice .pdf
73 Ken
http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

Hustler 5-BTV New Assembly and High Performance Installation Instructions (3.3M pdf)

Specifications

Band coverage: 10, 15, 20, 40 & 75 or 80 meters (Easily tunable to either)
Height: 25'
Weight: 17 lbs.
Materials: heavy wall, high strength aluminum tubing & heavy duty aluminum bracket. Stainless Steel clamp and hardware.
Mounting: Ground mount with or without radials, roof or tower mount with radials.
Power Capacity: Full legal limit on SSB /CW.
SWR: 1.6:1 at band edges
VSWR @ resonance: 1.15 to 1 or better
Bandwidth VSWR: 2 to 1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters.)
Wind load: 29 lbs @ 70 mph. 5-BTV 2:1 SWR Bandwidth 5-BTV Chart

Ground, Roof or Elevated Mounting? Radial wires or no radial wires? High Performance From Your Hustler BTV(509K pdf)

New-Tronics Antenna Corporation Limited Warranty
New-Tronics
Antenna Corporation warrants it's products to be free of defects in the material and workmanship and extends this warranty under intended use and normal service conditions to the original owner for a period of one year from the date of purchase. This warranty does not apply to any product that has been repaired or altered in any manner and it void for any damage due to accident, neglect, unreasonable use, improper installation of any other cause not arising out of defects in material of workmanship. The obligations of New-Tronics Antenna Corporation are limited to repairing or replacing, at it's option, any product or part that is returned to the factory all transportation charges prepaid, accompanied by proof of purchase and which examination reveals to have been defective within the warranty period stated above. New-Tronics Antenna Corporation does not assume nor is any person authorized to assume for it, any obligations other than that herein stated. Any implied warranties, including but not limited to fitness for a particular purpose, are limited in duration for the above one year period. New-Tronics Antenna Corporation shall not be liable under this warranty, or any implied warranty, for the loss of use of the product or for other consequential loss or damage incurred by the purchaser. Some

states do not allow the exclusion of limitation of implied warranties of consequential damages and so the above exclusions of limitations may not apply. This warranty gives you the special legal rights and you may have other rights that vary from state to state.

Part #
Part Name
Ship By
Price
Add to Cart

DXE-AOK-17M
Add-On-Kit 17M for the Hustler BTV Series Verticals

Ship Monday
$ 69.95

DXE-AOK-60M
Add-On-Kit 60M for the Hustler BTV Series
Verticals

Ship Monday
$ 74.95

DXE-VMN-1
Vertical Antenna Matching Network

Ship Monday
$ 44.95

DXE-AOK-DCF
Add-On-Kit Direct Coax Feed for Hustler BTV Verticals

Ship Monday
$ 22.95

DXE-CBC-8XU2
Coax Cable Belden 9258 RG8X PL259/PL259 2 ft for BTV DCF kit

Ship Monday
$ 18.99

DXE-CBC-008U002
Coax Cable Belden 8214 RG-8U Foam PL259/PL259 2 ft for BTV DCF kit

Ship Monday
$ 24.95

DXE-RADP-3
Radial Plate, Stainless Steel w/20 sets Radial Attach Hardware, up to 3" OD pipe
* Replaces DXE-RADP-1P

Ship Monday
$ 54.50

DXE-RADP-1HWK
Radial Plate Wire Attachment Hardware Kit - Stainless Steel

Ship Monday
$ 7.50

DXE-CAVS-1P
V-Saddle Clamp, 1/2 in. to 1-3/4 in. O.D. Applications

Ship Monday
$ 9.95

DXE-CAVS-2P
V-saddle clamp, 1 to 2 in. O.D. Applications

Ship Monday
$ 11.95

DXE-SSVC-2P
Stainless Steel V-Clamp for 1 to 2 inch steel pipe

Ship Monday
$ 11.95

DXE-TB-3P
Tilt Base for Hustler BTV Antennas

Ship Monday
$ 62.50

DXE-VFCC-H05-A
Vertical Feedline Current Choke 2/5 kW for Coaxially Fed 50 ohm HF Vertical Antennas

Ship Monday
$ 134.95

DXE-GUY100-KIT
Guying Kit for Hustler 4-BTV & other Verticals Not Exceeding 30 ft.

Ship Monday
$ 29.95

DXE-STPL-100BD
Radial Wire Staple, Biodegradable, 3", 100 pack

Ship Monday
$ 16.00

DXE-STPL-100P
Radial Wire Metal Anchor Pins, 100/pack

Ship Monday
$ 16.00

DXE-STPL-300P
Radial Wire Metal Anchor Pins, 300/pack

Ship Monday
$ 44.00

DXE-RADW-1000K
Bulk Radial Wire Kit, 1000 ft Spool of Wire, 40 Ring Terminals, 200 Metal Staples

Ship Monday
$ 123.95

DXE-RADW-500K
Bulk Radial Wire Kit, 500 ft Spool of Wire, 20 Ring Terminals, 100 Metal Staples

Ship Monday
$ 61.90

DXE-RADW-1K
Radials Pre-Cut 10 15 and 20M includes 1/4" ring terminals

Ship Monday
$ 24.95

DXE-RADW-40MK
Radials Pre-Cut 40M includes 1/4" ring terminals

Ship Monday
$ 20.95

DXE-RADW-80MK
Radials Pre-Cut 80M includes 1/4" ring terminals

Ship Monday
$ 37.95

DXE-900031
Automatic Wire Stripper/Crimper/Cutter, 24-10 Ga.

Ship Monday
$ 17.95

DXE-8X19-RT
Pigtail 19" for Hustler BTV Base to PL-259

Ship Monday
$ 16.95

DXE-363-SST
Bulkhead Fitting, SO-239 Socket, Silver Plating, Teflon Insulation

Ship Monday
$ 6.95

DXE-ECL-20SS
Element Clamp for 1-5/8 & 1-3/4 in. tube

Ship Monday
$ 1.90

*DXE-81343
Anti-Seize, 1 oz. Squeeze Tube

Ship Monday
$ 2.99

* This product is limited to domestic UPS Ground shipping only

*DXE-NMCBT8
Never-Seez, 8 oz. Brush Top, Mariner's Choice

Ship Monday
$ 14.95

* This product is limited to domestic UPS Ground shipping only

*DXE-NSBT8
Never-Seez, 8 oz. Brush Top

Ship Monday
$ 12.95

* This product is limited to domestic UPS Ground shipping only

*DXE-81464
Anti-Seize, 8.5 oz. Aerosol Can

Ship Monday
$ 10.99

* This product is limited to domestic UPS Ground shipping only

*DXE-P8A
Penetrox A Anti-Oxidant - 8 oz Squeeze Bottle

Ship Monday
$ 13.95

* This product is limited to domestic UPS Ground shipping only

DXE-UBK-BTV
Hustler BTV Replacement U-bolt Kit, set of 2

Ship Monday
$ 9.95

PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 11/21/10, Gary Woods <garygarlic@...> wrote:

From: Gary Woods <garygarlic@...>
Subject: Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 21, 2010, 3:36 PM

On Sun, 21 Nov 2010 16:21:32 -0500, you wrote:

>
>Does anyone know what the intended use of this gadget might be?

According to DX engineering's web site, it mounts just below the top trap,
with the three ears bent outward (horizontally).

http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

I suspect it's a capacitive "hat" you can move up and down for matching?

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

[Non-text portions of this message have been removed]

4649. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-22 00:22:12 UTC
From: Ken Burchfield
Topic: 4645 Message: 4649

Sorry guys I didnot intend to have that junk added!!!
73 Ken

 PacketRadio is Still Alive.......Mississippi.......145.010.......Simplex.......1200 Baud

--- On Sun, 11/21/10, Ken Burchfield <k5jxl@...> wrote:

From: Ken Burchfield <k5jxl@...>
Subject: Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!
To: DrakeRadio@yahoogroups.com
Date: Sunday, November 21, 2010, 6:18 PM

you may want to use that link and then look for the installation guide to download...
NC/Nice .pdf
73 Ken
http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

Hustler 5-BTV New Assembly and High Performance Installation Instructions (3.3M pdf)

[Non-text portions of this message have been removed]

4650. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-22 01:48:28 UTC
From: Kris Merschrod
Topic: 4645 Message: 4650

Yes, It is part of the 40 meter tune up as per the manual.

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: Bry Carling
To: AMATEURRADIO@yahoogroups.com ; dcboatanchors@... ; DCBOATANCHORS@... ;
drake-radio-operators@yahoogroups.com ; drakelist@... ; DrakeRadio@yahoogroups.com ;
Drake-Radios@yahoogroups.com
Sent: Sunday, November 21, 2010 4:21 PM
Subject: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Hi guys - I am finally finishing assembly of a Hustler 5TBV Antenna
that I inherited from Doc, KD4E about 3 years ago.

I have almost finished putting it together.

However, I found an EXTRA PIECE that is not discussed or described
in the manual as far as I can see!

It looks like a hose clamp with three fins attached, each about 6" long.

Does anyone know what the intended use of this gadget might be?

Here is the picture:

http://www.af4k.com/extrapiece.jpg

Any clues would be immensely appreciated before I put this puppy
up in the air.

73 de AF4K, Bry

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4651. Re: [DrakeRadio] Re: MN4 Tuner, G5RV, ladderline, & headaches

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-22 01:46:48 UTC
From: Dennis Kippa
Topic: 4638 Message: 4651

Is the balun working correctly???

Dennis

From: Ralph <ku4pt@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, November 21, 2010 10:52:12 AM
Subject: [DrakeRadio] Re: MN4 Tuner, G5RV, ladderline, & headaches

--- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@...> wrote:
>
> I finished putting up my homemade quasi-G5RV with homebrew ladderline (quasi,
>since the ladderline is longer than 31 ft, it's more accurately a ladderline-fed
>doublet) and dang if I can't get my Drake MN4 matching network to adjust it!
>
>
>

Once you change the feedline from the 30 some feed value, you no longer have a G5RV antenna. YOu just have a random wire type. The 31 feet of feedline is to match the antenna to near 50 ohms. I would go with the 31 feet of open wire and put the choke 1:1 balun and then feed it with the coax.

The MN4 may not have enough range to match an antenna that is really way out of the impedance range.

[Non-text portions of this message have been removed]

4652. Re T4X and R4B Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-23 15:40:32 UTC
From: m0afj
Topic: 4652 Message: 4652

I've just picked up a really nice T4X and R4B set up, seems to work FB apart from if I want to use the Rx as a seperate unit the sensitivity goes way down, using the Tx as the main control in transcieve its fine.
Am I missing something here?, I have taken the precaution of ordering a NOS 6HS6...

Thanks Tim M0AFJ

4653. Re: [DrakeRadio] Re T4X and R4B Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-23 16:57:37 UTC
From: Don Cunningham
Topic: 4652 Message: 4653

Tim,
Sounds like that might be a dirty switch. With the front of the R4B facing you, on the left hand side, there is a switch for VFO or XTAL control. Work it while listening and see if that doesn't help. Those are notoriously intermittent, and some just solder on jumpers to eliminate the problem. Hope that helps!!! It has saved me MANY times, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4654. Re: Re T4X and R4B Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-24 08:43:23 UTC
From: m0afj
Topic: 4652 Message: 4654

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Tim,
> Sounds like that might be a dirty switch. With the front of the R4B facing you, on the left hand side, there is a switch for VFO or XTAL control. Work it while listening and see if that doesn't help. Those are notoriously intermittent, and some just solder on jumpers to eliminate the problem. Hope that helps!!! It has saved me MANY times, hi.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

Hi Don, that did the trick, great tip. Rigs working well now apart from the dial calibration of the Rx, I've had to move the actual vernier dial to get it in but really I think the VFO needs resetting, I don't suppose you have any instructions for that?, all the manula says is `don't do it send it back to the factory'!!

4655. SOS?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-24 17:09:32 UTC
From: Victor
Topic: 4655 Message: 4655

Hello all
Heard a very strange transmission on 14.010.5 (CW) today. First heard it around 1425 UTC and it went on until about 1440 UTC. It was automated but shifted freq up and down a few khz after each call.
I quote " SOS SOS SOS Sahara/CN Assassin ". Tried responding but nothing.
At the time the band was open to the U.S. so did anyone on the other side of the pond hear it? The transmission was S9 here and I doubt that it was a mobile.
Don't know what to make of it!
Cheers
Vic

4656. Re: [DrakeRadio] Re: Re T4X and R4B Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-24 17:44:07 UTC
From: Don Cunningham
Topic: 4652 Message: 4656

Tim,
That "tip" comes from the distant past, probably given to me originally by Bill Frost formerly of Drake service, hi. On your dial alignment, if it is beyond what you can do with the instructions on pg 16 and 17 of the R4B manual, I would suggest a search of the www.wb4hfn.com site where you will find a couple of nice articles on the PTO workings. Also, maybe Garey will chime in with some other words of wisdom!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4657. Re: [DrakeRadio] Re: Re T4X and R4B Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-24 22:28:51 UTC
From: Richard Knoppow
Topic: 4652 Message: 4657

```
----- Original Message -----
From: "m0afj" <m0afj@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 24, 2010 12:43 AM
Subject: [DrakeRadio] Re: Re T4X and R4B Combo

>
>
> --- In DrakeRadio@yahoogroups.com, "Don Cunningham"
> <donc@...> wrote:
>>
>> Tim,
>> Sounds like that might be a dirty switch. With the front
>> of the R4B facing you, on the left hand side, there is a
>> switch for VFO or XTAL control. Work it while listening
>> and see if that doesn't help. Those are notoriously
>> intermittent, and some just solder on jumpers to
>> eliminate the problem. Hope that helps!!! It has saved
>> me MANY times, hi.
>> 73,
>> Don, WB5HAK
>>
>> [Non-text portions of this message have been removed]
>>
>
>
> Hi Don, that did the trick, great tip. Rigs working well
> now apart from the dial calibration of the Rx, I've had to
> move the actual vernier dial to get it in but really I
> think the VFO needs resetting, I don't suppose you have
> any instructions for that?, all the manula says is `don't
> do it send it back to the factory'!!
>
I'm not sure I understand what it wrong with the
calibration. It will normally vary a little from band to
band because the crystals are not perfectly on frequency.
There will also be some variation from end to end. I am not
sure of what is typical but both of these are the reasons
for the movable pointer and dial skirt. A VFO that is very,
very far off could indicate that the stops are not set
correctly, i.e., from the gears being out of synch, or an
electronic problem but I think the latter is rare.
Note also that the dial is held in a clutch and can be
slipped. This can be done with the end of a finger and
requires only that the case be removed. The dial should be
```

set up so that its right in the center of a band with the
red pointer centered in its range.
There really is not much in the way of adjustment in the
VFO. Drake VFO's seem to be very reliable and stable.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4658. Re: Need 14.6mc crystal for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-25 17:45:28 UTC
From: n5kat
Topic: 4627 Message: 4658

I ordered one from International Crystal....about $20 + shipping. They said two week lead time.

Website is icmfg.com.

Joe N5KAT

--- In DrakeRadio@yahoogroups.com, "Howard T" <howard-t@...> wrote:
>
> Joe, have you found a crystal for 80 meters? I have one that did the same as yours and I, too, am looking. Wondered if you found one and where. Thanks.
>

4659. Re: [DrakeRadio] Re: Need 14.6mc crystal for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-25 17:54:48 UTC
From: Bob Macklin
Topic: 4627 Message: 4659

Check Bry Carling:
http://www.af4k.com/hc6u_crystals.htm#drake

But that 80M crystal is $45! Most are only $16.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: n5kat
To: DrakeRadio@yahoogroups.com
Sent: Thursday, November 25, 2010 9:45 AM
Subject: [DrakeRadio] Re: Need 14.6mc crystal for R-4B

I ordered one from International Crystal....about $20 + shipping. They said two week lead time.

Website is icmfg.com.

Joe N5KAT

--- In DrakeRadio@yahoogroups.com, "Howard T" <howard-t@...> wrote:
>
> Joe, have you found a crystal for 80 meters? I have one that did the same as yours and I, too, am looking. Wondered if you found one and where. Thanks.
>

[Non-text portions of this message have been removed]

4660. Source for 500 Hz bandwidth crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-25 23:06:54 UTC
From: Noodle10536
Topic: 4660 Message: 4660

Does anyone know where I can find a replacement 500 Hz bandwidth crystal filter for my TR-4Cw? I would like to put mine back to original. Thanks, Peter.

4661. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-26 17:46:43 UTC
From: Gary Woods
Topic: 4645 Message: 4661

On Sun, 21 Nov 2010 16:21:32 -0500, you wrote:

>
>Does anyone know what the intended use of this gadget might be?

According to DX engineering's web site, it mounts just below the top trap,
with the three ears bent outward (horizontally).

http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

I suspect it's a capacitive "hat" you can move up and down for matching?

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

4662. Re: [DrakeRadio] Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-27 03:09:56 UTC
From: John Daly
Topic: 4645 Message: 4662

The BTV series antennas are nut wired to the based of the antenna. This item allow you to connect a Pl-259 coax plug to the antenna rather than direct wiring the coax to the antenna. I hope this explanation helps. 73 John WA9WHD Lutz. FL

Sent from my iPod

On Nov 26, 2010, at 12:46 PM, Gary Woods <garygarlic@...> wrote:

On Sun, 21 Nov 2010 16:21:32 -0500, you wrote:

>
>Does anyone know what the intended use of this gadget might be?

According to DX engineering's web site, it mounts just below the top trap,
with the three ears bent outward (horizontally).

http://www.dxengineering.com/Parts.asp?ID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

I suspect it's a capacitive "hat" you can move up and down for matching?

Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

[Non-text portions of this message have been removed]

4663. Re: Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-27 20:13:03 UTC
From: Bry Carling
Topic: 4645 Message: 4663

Thanks John - but no, that is actually a piece they tell you to put at the base of the 75m coil on the 5BTV. Nothing to do with radials.
I didn't understand the remark about it being "nut wired."

I had about 150 helpful answers , copies of manual pages etc. etc. etc. sent to me on this ove rthe past few weeks from a bunch of great hams all trying to help me.
Made my first few contacts with the rig on it yesterday and today.... KP4 on 40m and checked into SouthCARS on 7251 kHz, so all in all it works well.

They don't document that piece very well, but yes it is a kind of capacity hat or matching stub for the75m trap when you add it to the 4BTV part for 40-10m.

73s - Brian

Posted by: "John Daly" wa9whd@... wa9whd
Date: Fri Nov 26, 2010 7:10 pm ((PST))

The BTV series antennas are nut wired to the based of the antenna. This item allow you to connect a Pl-259 coax plug to the antenna rather than direct wiring the coax to the antenna. I hope this explanation helps. 73 John WA9WHD Lutz. FL

[Non-text portions of this message have been removed]

4664. Re: [DrakeRadio] Re: Hustler 5TBV Antenna - HELP!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-27 21:08:59 UTC
From: John Daly
Topic: 4645 Message: 4664

Brian (and Gary) - sorry for the confusion. I based my reply on the photo from

http://www.dxengineering.com/Parts.aspID=3434&PLID=141&SecID=16&DeptID=8&PartNo=HUS-5BTV

which shows a picture of the coax adapter.If I had read Gary's questions more closely I would have realized that his question had nothing to do with allowing PL-259 acessiblity to the base of his 5BTV antenna, which at least in my case, has the coax cable directly wired ("nut wired" :)) to the base of my 4BTV.

Sorry for the confusion - 73 John WA9WHD

--- On Sat, 11/27/10, Bry Carling <bcarling@...> wrote:

From: Bry Carling <bcarling@...>
Subject: [DrakeRadio] Re: Hustler 5TBV Antenna - HELP!
To: DrakeRadio@yahoogroups.com
Date: Saturday, November 27, 2010, 12:13 PM

Thanks John - but no, that is actually a piece they tell you to put at
the base of the 75m coil on the 5BTV. Nothing to do with radials.
I didn't understand the remark about it being "nut wired."

I had about 150 helpful answers , copies of manual pages etc. etc. etc. sent
to me on this ove rthe past few weeks from a bunch of great hams all trying
to help me.
Made my first few contacts with the rig on it yesterday and today.... KP4 on
40m and checked into SouthCARS on 7251 kHz, so all in all it works well.

They don't document that piece very well, but yes it is a kind of capacity hat
or matching stub for the75m trap when you add it to the 4BTV part for 40-
10m.

73s - Brian

Posted by: "John Daly" wa9whd@... wa9whd
Date: Fri Nov 26, 2010 7:10 pm ((PST))

The BTV series antennas are nut wired to the based of the antenna. This
item allow you to connect a Pl-259 coax plug to the antenna rather than
direct wiring the coax to the antenna. I hope this explanation helps. 73
John WA9WHD Lutz. FL

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4665. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-28 21:59:35 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4665

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4666. Re: [DrakeRadio] Source for 500 Hz bandwidth crystal filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 20:44:27 UTC
From: Steve Torma
Topic: 4660 Message: 4666

Hi Peter,

Name here is Steve Torma, located in NJ...zipcode 07924, and ran across this/your email looking for a 500 hz cw filter for your TR-4CW. I'm selling some of my Drake gear, incl. a TR-4CW/RIT, and have bought a bunch of spare parts for it which I will be selling also.

As a result, I've got 2 new-old-stock, unused/untested, Network Science Inc., #7709 9.0 - .500/6 cw filters (9.0 mhz IF, 500 hz bandwidth, 6-poles) for the TR-4CW,CW/RITs, and I'll sell one of them for $90 Shipped-CONUS-Only, and payment via US Postal Service Money Order Only. Pricey, I know...sorry, but it's less than I paid for it.

If any interest, feel free to email me. Tel# here is (980) 766-0671, but I do use dail-up service for web, and I let my neighbor use my computer when I'm at work, so getting me by landline may prove difficult.

Anyway, thanks for your time; and if you already found a filter, well..good-find!

Regards,

Steve

--- On Thu, 11/25/10, Noodle10536 <pureenduro@...> wrote:

From: Noodle10536 <pureenduro@...>
Subject: [DrakeRadio] Source for 500 Hz bandwidth crystal filter
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 25, 2010, 6:06 PM

Does anyone know where I can find a replacement 500 Hz bandwidth crystal filter for my TR-4Cw? I would like to put mine back to original. Thanks, Peter.

[Non-text portions of this message have been removed]

4668. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:00:05 UTC
From: Don Cunningham
Topic: 4667 Message: 4668

Mike,
You have to visit Yahoo Groups and go to this list and unsubscribe yourself with their procedure.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4669. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:15:44 UTC
From: Joe
Topic: 4667 Message: 4669

Nope....just go to the bottom of every post and send an email to
DRAKERADIO-unsubscribe@yahoogroups.com

It is that easy.

Joe - WA6RKN
Co-Moderator

----- Original Message -----
From: "Don Cunningham" <donc@...>
Subject: Re: [DrakeRadio] unsubscribe

> Mike,
> You have to visit Yahoo Groups and go to this list and unsubscribe
> yourself with their >procedure.

4670. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:22:14 UTC
From: Don Cunningham
Topic: 4667 Message: 4670

Well, he hadn't already done that one, so I thought the other might be easier, hi.
73,
Don

[Non-text portions of this message have been removed]

4671. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:26:40 UTC
From: Joe
Topic: 4667 Message: 4671

It is amazing how many people use Yahoogroups daily, and don't know about
the 'shortcuts' at the bottom of the message.

Joe - WA6RKN

----- Original Message -----
From: "Don Cunningham" <donc@...>
Subject: Re: [DrakeRadio] unsubscribe

> Well, he hadn't already done that one, so I thought the other might be
> easier, hi.
> 73,
> Don

4672. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:36:23 UTC
From: amfone
Topic: 4667 Message: 4672

What did I miss? Why is everyone unsubscribing?

Tim

From: Mike <mikestahoe@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, November 29, 2010 4:46:25 PM
Subject: [DrakeRadio] unsubscribe

[Non-text portions of this message have been removed]

4673. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:42:27 UTC
From: Don Cunningham
Topic: 4667 Message: 4673

Just one, NOT everyone. Nothing has gone on, maybe he got bored, hi.
73,
Don

[Non-text portions of this message have been removed]

4674. Re: [DrakeRadio] unsubscribe

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-29 22:45:16 UTC
From: amfone
Topic: 4667 Message: 4674

OK good I had about 8 messages.

73 Tim
WB8UHZ

From: Don Cunningham <donc@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, November 29, 2010 5:42:27 PM
Subject: Re: [DrakeRadio] unsubscribe

Just one, NOT everyone. Nothing has gone on, maybe he got bored, hi.
73,
Don

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4675. Re: unsubscribe normal day-to-day

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-11-30 21:30:52 UTC
From: B W
Topic: 4667 Message: 4675

Maybe his Drake line was sold. I sold my C line, but still have my perfect running B line. There still are quite a few of us left, Tim
Bill, k3waw

> What did I miss? Why is everyone unsubscribing?
>
> Tim
>
>
>
>
>
> _____
> From: Mike <mikestahoe@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Mon, November 29, 2010 4:46:25 PM
> Subject: [DrakeRadio] unsubscribe
>
>
>

4676. Repairing the R-4B Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-01 17:07:01 UTC
From: querencias
Topic: 4676 Message: 4676

Any advice on how to trouble shoot the calibrator/ Get a fuzzykind of buzzing noise when it's turned on? Suspect the crystal or the flip-flops?

Grant

4677. Re: [DrakeRadio] Repairing the R-4B Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-01 18:27:48 UTC
From: Garey Barrell
Topic: 4676 Message: 4677

Grant -

Your problem is almost certainly C192 and/or possibly C190. You can verify by just bridging a good cap across one of those with clip leads as the problem is high ESR, not leakage.

If they are gone, the can cap C90 and tubular cap C91 are probably not long. A good fix is the re-cap kit from 'hayseedhamfest.com'. Tom has a complete set of all electrolytics for a very reasonable price. All electrolytics in that receiver are way past their life expectancy, and a 'shorting' failure can take out a power transformer. Be sure you have the correct size fuse in place!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

querencias wrote:
> Any advice on how to trouble shoot the calibrator/ Get a fuzzykind of buzzing noise when it's turned on? Suspect the crystal or the flip-flops?
>
> Grant
>
>

4678. Re: [DrakeRadio] Repairing the R-4B Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-01 18:51:10 UTC
From: Larry Taft
Topic: 4676 Message: 4678

New filter cap in the DC supply feeding the calibrator.

Larry K2LT
drakerepair.com

On 12/1/2010 11:07 AM, querencias wrote:
> Any advice on how to trouble shoot the calibrator/ Get a fuzzykind of buzzing noise when it's turned on? Suspect the crystal or the flip-flops?
>
> Grant
>
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> Yahoo! Groups Links
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4679. B Line Working and new TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 00:29:06 UTC
From: PaulG
Topic: 4679 Message: 4679

Turned on the B line for the 1st time this season and it seems to still be working so thanks for all the help in troubleshooting.

Last week I bought a TR-4 with AC3, MS4 and RV4 that was advertised as I thought it was working when I bought it but wasn't so am getting ready to try it out. It looks pretty good and hopefully will not be too far gone.

My shack is on the 3rd floor of my 1901 home and has no heat so when it gets cold all the tubes add some heat.

Now have the B line the TR4 set up AND the 2B.

Happy Holidays

Paul K3PG

http://pgerhardt.blogspot.com

4680. Drake R4C/T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 08:32:37 UTC
From: briantibbert
Topic: 4680 Message: 4680

does anyone have a spare plug in relay for the T4XC.or know of a source.
I recently acquired a slightly butchered model, and this relay is missing.
also I am looking for an AM filter for the R4C, either bandwidth, plus main tuning knobs, mine have lost the silver inserts.
thanks
Brian Tibbert GW3RKZ.

4681. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 08:54:14 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 4681

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /R-4B_RIT.pdf
Uploaded by : b105mike <mike.millen.uk@...>
Description : "RIT" control for Drake PTO

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/R-4B_RIT.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

b105mike <mike.millen.uk@...>

4682. RIT control for R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 09:02:03 UTC
From: mike
Topic: 4682 Message: 4682

I've put the schematic for a "RIT" (Fine Tune) control in the Files section.

It has a range of +/- a couple of hundred hertz - perfect for easily getting natural-sounding audio on SSB.

It's just a varactor controlled by a Log. pot. connected to the FSK terminal of the PTO.

I fitted a small pot (with 1/8" shaft & 1/2" knob) in the bottom centre of the front panel (where the little circle mark is).

The mod was done on my R-4B, but I see no reason why it wouldn't be equally successful on any model with the same PTO.

Regards,
Mike
M0MLM

4683. Re: [DrakeRadio] Drake R4C/T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 13:23:17 UTC
From: navydude1962@yahoo.com
Topic: 4680 Message: 4683

Punch in knob inserts in EBay. There's a fellow on EBay in Virginia who sells them for various radios incl R4C. I bought some so I am certain.
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "briantibbert" <briantibbert@...>
Sender: DrakeRadio@yahoogroups.com
Date: Thu, 02 Dec 2010 08:32:37
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake R4C/T4XC

does anyone have a spare plug in relay for the T4XC.or know of a source.
I recently acquired a slightly butchered model, and this relay is missing.
also I am looking for an AM filter for the R4C, either bandwidth, plus main tuning knobs, mine have lost the silver inserts.
thanks
Brian Tibbert GW3RKZ.

[Non-text portions of this message have been removed]

4684. Re: [DrakeRadio] Drake R4C/T4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 14:24:38 UTC
From: Garey Barrell
Topic: 4680 Message: 4684

Brian -

The "correct" replacement relay is the P&B (Tyco) R10-E1-Y4-V2.5k, same relay used in the "late" T-4XC and TR-4C, which IS available from Mouser and Newark among others. About $15.

If your old relay is a Varley with a 15k coil, you need to add a 1.5k 1W resistor in series with the coil, otherwise a drop-in replacement. Look at the socket for V10, the 6FQ7 (or 6EV7). If there is a 1.5k, 1W resistor connected between Pin 6 and Pin 9, just plug in the new relay. If there is NO resistor, remove the wire connected to Pin 6 and move it to Pin 9, add a 1.5k, 1W resistor between Pin 6 and Pin 9, and plug in the new relay.

The 15k ohm coil relays were failure prone, primarily because of the very fine wire needed. The bobbin would swell, especially in humid conditions, stressing and breaking the wire. This is why T-4XC's that have been stored in the garage for a while often have a bad relay! The 2.5k ohm coil of course uses considerably larger wire.

Brushed metal inserts for the MAIN TUNING knob are available from Charlie Talbot, K3ICH. He sells on eB* as 'fixit-fox'.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

briantibbert wrote:
> does anyone have a spare plug in relay for the T4XC.or know of a source.
> I recently acquired a slightly butchered model, and this relay is missing.
> also I am looking for an AM filter for the R4C, either bandwidth, plus main tuning knobs, mine have lost the silver inserts.
> thanks
> Brian Tibbert GW3RKZ.
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4685. Initial TR-4 Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-02 20:18:48 UTC
From: PaulG
Topic: 4685 Message: 4685

Test Conditions
I used the following from my working B line
AC-4, Speaker, back up wire antenna.
Desk Mic

RX
Copying weak signals but S meter stays on about 3 and does not move with signals that are S9+

'Cal' function tones are heard

RF tune peaks the noise

TX
X-CW (tune) into dummy load puts out over 120 Watts. Transmit tuning seems 'normal'

'SSB' When PTT on mic is pushed puts out about 4 watts and there is no modulation or change regardless of 'Xmtr Gain' setting.

RX not going into full mute Meter goes to S9 but does not go to full scale. It will go to full scale with the RF gain control.

Overall condition is good and clean. I have no idea of history or when it may have been working last.

Any ideas of where to start?

My guess would be to start checking tubes.

Paul K3PG

4686. Re: [DrakeRadio] Initial TR-4 Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-03 00:59:02 UTC
From: William Houghton
Topic: 4685 Message: 4686

If you haven't already done it....

1 - DeOxitIt on the switches,
2 - Fader Lube on the pots
3 - LOOSEN and Retighten all of the screws that secure solder lugs to the chassis (this often includes tube sockets). My TR-4C had loud objectional hum until I tightened a screw close to the 6AQ5. Oxidized ground connections can cause all sorts of odd & difficult to troubleshoot problems.
4 - DeOxitIt on the tube pins and tube sockets.

Then test tubes. Leave tubes that test marginally weak in place for right now. Tube testers aren't precise and so the "weak" tube might be fine in your radio. I do place a small colored adhesive dot on the weak tubes so that when I'm troubleshooting a problem and a tube did test "weak" I'll know it (Avery Labels makes these dots).

Take your time, have fun, be patient, and be thankful Garey is in the group (he knows just about everything you need to know to get a Drake working again).

73, Bill

From: PaulG <pgerhardt@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, December 2, 2010 12:18:48 PM
Subject: [DrakeRadio] Initial TR-4 Test

Test Conditions
I used the following from my working B line
AC-4, Speaker, back up wire antenna.
Desk Mic

RX
Copying weak signals but S meter stays on about 3 and does not move with signals that are S9+

'Cal' function tones are heard

RF tune peaks the noise

TX
X-CW (tune) into dummy load puts out over 120 Watts. Transmit tuning seems 'normal'

'SSB' When PTT on mic is pushed puts out about 4 watts and there is no modulation or change regardless of 'Xmtr Gain' setting.

RX not going into full mute Meter goes to S9 but does not go to full scale. It will go to full scale with the RF gain control.

Overall condition is good and clean. I have no idea of history or when it may have been working last.

Any ideas of where to start?

My guess would be to start checking tubes.

Paul K3PG

[Non-text portions of this message have been removed]

4687. Looking for R-4B accessories

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-03 00:46:46 UTC
From: al7hg
Topic: 4687 Message: 4687

I just got an R-4B, have previously owned a complete R-4C and complete R-4C lineups.

Anyone care to comment on how the two receivers compare with each other?

I am looking for a digital display and perhaps an FS-4 frequency synthesizer for this radio.

Dave, AL7HG

4688. Help with R7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-03 15:10:57 UTC
From: w1fued@sbcglobal.net
Topic: 4688 Message: 4688

My R7A has developed a problem with , I think, is associated with the product detector and am detector, not turning on. When I turn on the calibrator, it seems to act as a product detector. I have followed the wiring and it seems I am not getting the +10 volts that should be present on 2/3 if board that ultimately turns on the product detector/ am detector.
I have followed the +10 v line back to the ssb/am switch (which is good),no 10v. at the switch. Now I am lost as to where the 10v (should)come from. The passband tuning board? It seems the wire goes to the passband switch, but them I cannot find it.

Also, my RIT seems only to work in the SSB/cw mode when I turn on the calibrator.I think this another clue to the problem. I dont remember if this is normal or not. I am wondering whether this maze of wires at the switches has somehow lost the 10v, but dont know where it comes from on the parent board or passband board to check.

I guess the calibrator is reverse biasing the diodes in 2/3 if board
as it should. All diodes test good on 2/3 if board.

This is my first adventure into the r7, maybe I should stick with the tube stuff.
Any advise would be greatly appreciated.
Thanks,
Ed

4689. Re: [DrakeRadio] Help with R7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-03 18:26:45 UTC
From: Garey Barrell
Topic: 4688 Message: 4689

Ed -

OK. +10V required to switch to the CW/SSB detector on Pin 10/35. Your observation that the Calibrator ALSO turns on the CW/SSB detector is correct, this occurs through Pin 10-4, via CR1007.

The +10V comes from the Passband Tuner board (#11) Pin 11/37 via switch S-4C, the AM-SSB/CW switch, and controlled by Q1107. I have to admit that I cannot see where the DC bias actually 'comes from', I would expect a pull up resistor somewhere, but not there. In SSB/CW there should be +10V on Pin 11/37,

I must be missing something somewhere. Actually I think there's a resistor missing! :-) Hopefully Bill or someone else knows??

Anyway, you need at least a couple-three volts minimum at pin 10/35, and supposedly you'll see 10V on this pin in SSB/CW.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
> My R7A has developed a problem with , I think, is associated with the product detector and am detector, not turning on. When I turn on the calibrator, it seems to act as a product detector. I have followed the wiring and it seems I am not getting the +10 volts that should be present on 2/3 if board that ultimately turns on the product detector/ am detector.
> I have followed the +10 v line back to the ssb/am switch (which is good),no 10v. at the switch. Now I am lost as to where the 10v (should)come from. The passband tuning board? It seems the wire goes to the passband switch, but them I cannot find it.
>
> Also, my RIT seems only to work in the SSB/cw mode when I turn on the calibrator.I think this another clue to the problem. I dont remember if this is normal or not. I am wondering whether this maze of wires at the switches has somehow lost the 10v, but dont know where it comes from on the parent board or passband board to check.
>
> I guess the calibrator is reverse biasing the diodes in 2/3 if board
> as it should. All diodes test good on 2/3 if board.
>
> This is my first adventure into the r7, maybe I should stick with the tube stuff.
> Any advise would be greatly appreciated.
> Thanks,
> Ed

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4690. Re: [DrakeRadio] Help with R7A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-03 20:39:18 UTC
From: William Houghton
Topic: 4688 Message: 4690

Gary,

If you are talking abount me (Bill) I don't know. I haven't seen the schematic for the circuit in question.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, December 3, 2010 10:26:45 AM
Subject: Re: [DrakeRadio] Help with R7A

Ed -

OK. +10V required to switch to the CW/SSB detector on Pin 10/35. Your observation that the Calibrator ALSO turns on the CW/SSB detector is correct, this occurs through Pin 10-4, via CR1007.

The +10V comes from the Passband Tuner board (#11) Pin 11/37 via switch S-4C, the AM-SSB/CW switch, and controlled by Q1107. I have to admit that I cannot see where the DC bias actually 'comes from', I would expect a pull up resistor somewhere, but not there. In SSB/CW there should be +10V on Pin 11/37,

I must be missing something somewhere. Actually I think there's a resistor missing! :-) Hopefully Bill or someone else knows??

Anyway, you need at least a couple-three volts minimum at pin 10/35, and supposedly you'll see 10V on this pin in SSB/CW.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

w1fued@... wrote:
> My R7A has developed a problem with , I think, is associated with the product
>detector and am detector, not turning on. When I turn on the calibrator, it
>seems to act as a product detector. I have followed the wiring and it seems I am
>not getting the +10 volts that should be present on 2/3 if board that ultimately
>turns on the product detector/ am detector.
> I have followed the +10 v line back to the ssb/am switch (which is good),no
>10v. at the switch. Now I am lost as to where the 10v (should)come from. The
>passband tuning board? It seems the wire goes to the passband switch, but them I
>cannot find it.

>
> Also, my RIT seems only to work in the SSB/cw mode when I turn on the
>calibrator.I think this another clue to the problem. I dont remember if this is
>normal or not. I am wondering whether this maze of wires at the switches has
>somehow lost the 10v, but dont know where it comes from on the parent board or
>passband board to check.
>
> I guess the calibrator is reverse biasing the diodes in 2/3 if board
> as it should. All diodes test good on 2/3 if board.
>
> This is my first adventure into the r7, maybe I should stick with the tube
>stuff.
> Any advise would be greatly appreciated.
> Thanks,
> Ed
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4691. RE: [DrakeRadio] SOS?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-05 15:43:20 UTC
From: Terrell Hamilton
Topic: 4655 Message: 4691

Victor:

Ever heard anything more about your "distress" call? If it weren't automated, or with such a fanciful signature, it would strike me as more serious. Perhaps young/irresponsible/or inebriated person having "fun."

Terry K7WLD

Wenatchee, WA

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Victor
Sent: Wednesday, November 24, 2010 9:10 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] SOS?

Hello all
Heard a very strange transmission on 14.010.5 (CW) today. First heard it around 1425 UTC and it went on until about 1440 UTC. It was automated but shifted freq up and down a few khz after each call.
I quote " SOS SOS SOS Sahara/CN Assassin ". Tried responding but nothing.
At the time the band was open to the U.S. so did anyone on the other side of the pond hear it? The transmission was S9 here and I doubt that it was a mobile.
Don't know what to make of it!
Cheers
Vic

[Non-text portions of this message have been removed]

4692. RE: [DrakeRadio] SOS?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-05 16:39:40 UTC
From: g4jss@tiscali.co.uk
Topic: 4655 Message: 4692

Hi Terry
Not really but a few days later I heard a snippet on the national news (BBC) which mentioned trouble brewing the the Western Sahara -
Morrocco. Seems that the populations are divided on land, political and other issues. It may be connected but I don't know.
All the best
Vic

4693. NEW! Service Supplement CD for R-4A / T-4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-05 23:26:01 UTC
From: Garey Barrell
Topic: 4693 Message: 4693

I have received numerous requests for a CD covering the R-4A and T-4X.

Here it is!

Hopefully people have not given up, or the requests were not all from the same person, but ...

This was not an easy one, since it seems there were quite a few changes in the R-4A AFTER the "last known" schematic, 1026665400, requiring a revised schematic. This CD is for the 11 tube version of the R-4A (s/n 4054 - 6999). The early version is 'coming', but I had to start somewhere! The T-4X was also in a state of flux, as I have found three distinct versions of the schematic, none dated or otherwise identified. Of course both (now three) R-4A schematics are included, plus all three (now four) T-4X schematics.

There are 58 pages, 32 of which are in high resolution color, in the Service Manual. Along with the Manual directory with quality scans of the C-4, L-4B, FS-4, MN-2000, W-4 and other original manuals, there are the usual batch of miscellaneous files with field changes, modifications, troubleshooting tips, etc.

Still the same low price, $25 delivered to the US, slightly higher elsewhere. All the previous CDs are still available too!

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4A, 4-B, C-Line &
TR-4/C Service Supplement CDs
<www.k4oah.com>

4694. TR-7 audio failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-06 18:07:17 UTC
From: Craig Roberts
Topic: 14 Message: 4694

The receiver audio output on my TR-7 is dead.

I normally keep the audio output (via its back panel jack) connected to my computer sound card as part of my digital modes interface. I've been doing this for years without incident.

However, yesterday the stereo phone plug into the sound card apparently became partially dislodged and effectively shorted the radio's audio output line. I was unaware of this initially since I had turned on the radio to allow it to warm up, left the shack, and didn't return for about 30 minutes. By then, the rig was mute.

Audio via the audio out jack, speaker line and headphone jack are all dead though S-meter fluctuations indicate that RF is still being detected normally.

What might I have blown? If it's the audio amp IC, with what can I replace this obsolete component? (I'm hoping for a 1N4148 diode or transistor burnout).

Many thanks,

Craig
W3CRR

4695. Re: [DrakeRadio] TR-7 audio failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-06 18:34:12 UTC
From: Garey Barrell
Topic: 14 Message: 4695

Craig -

Most of these IC amps are short-circuit protected, so I would suspect
C1159 first, followed by C1174.

If the amp is really blown, earlier units used an LM380. I don't know
if they are pin compatible. It may be possible to put a TDA2002A in there.

It seems like I have heard of a sub for the SL61545, but I can't find it
at the moment. Perhaps someone else knows what it is.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
& TR-4/C Service Supplement CDs
<www.k4oah.com>

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> output line. I was unaware of this initially since I had turned on the
> radio to allow it to warm up, left the shack, and didn't return for
> about 30 minutes. By then, the rig was mute.
>
> Audio via the audio out jack, speaker line and headphone jack are all
> dead though S-meter fluctuations indicate that RF is still being
> detected normally.
>
> What might I have blown? If it's the audio amp IC, with what can I
> replace this obsolete component? (I'm hoping for a 1N4148 diode or
> transistor burnout).
>
> Many thanks,
>
> Craig
> W3CRR
>
>
> ------------------------------------

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> Yahoo! Groups Links
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4696. Re: [DrakeRadio] TR-7 audio failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-06 18:44:27 UTC
From: Garey Barrell
Topic: 14 Message: 4696

Craig -

It's coming back now..... I don't believe I've ever seen a TR-7 with
an SL61545 IC in it!! All I've ever seen is the LM380, which is still
available from several sources, and IS output short circuit protected.
Apparently the '61545 was gone even before the TR-7 was built. Perhaps
lost in the time between original design and production?

Too many things, not enough neurons ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
& TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
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> However, yesterday the stereo phone plug into the sound card apparently
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> output line. I was unaware of this initially since I had turned on the
> radio to allow it to warm up, left the shack, and didn't return for
> about 30 minutes. By then, the rig was mute.
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> Audio via the audio out jack, speaker line and headphone jack are all
> dead though S-meter fluctuations indicate that RF is still being
> detected normally.
>
> What might I have blown? If it's the audio amp IC, with what can I
> replace this obsolete component? (I'm hoping for a 1N4148 diode or
> transistor burnout).
>
> Many thanks,
>
> Craig
> W3CRR
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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4697. R7A to TR7 cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-06 19:53:34 UTC
From: docbrent@telus.net
Topic: 4697 Message: 4697

Can anyone point me to a cable for slaving my new-to-me R7A to my TR 7?

Thanks,

Brenton
VE6IE

4698. Re: [DrakeRadio] R7A to TR7 cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-06 20:18:17 UTC
From: Don Cunningham
Topic: 4697 Message: 4698

Go to www.wb4hfn.com and look under his parts, etc for sale. He makes a NICE cable for a reasonable price.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4699. TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 01:29:54 UTC
From: Craig Roberts
Topic: 14 Message: 4699

Many thanks to Garey for his excellent advice on resurrecting my TR-7's dead audio.

As it happens, no component replacements were necessary. My radio was, in fact, apparently suffering from that mysterious and not uncommon TR-7 ailment: "Acute Connectoritis."

I had removed the supposedly faulty audio board for the purposes of visual and olfactory inspection. No unplesantness was noted. Nevertheless, I was about to log onto Mouser to order an electrolytic and tantalum to replace the components I assumed I had fried when I decided to plug the board back into my radio just to keep it safe until new parts arrived. "What the heck," I thought, "why not turn on the rig and see if" [defying logic and entering into the realm of myth] the wound had healed itself overnight.

By golly, it had.

Incidentally, this radio, a late model TR-7 with the "split back", actually did have an SL61545 audio amp IC in it. My early model "spare" TR-7 has the LM380. Curious, ain't it, since -- as Garey noted -- the LM380 is still available and the SL61545 is obsolete.

Of course, boards could have been swapped by previous owners or service techs. Both rigs, though nicely restored, show evidence of reworking.

Anyway, thanks again, Garey. Your advice ahs been stored away for future reference.

73,

Craig
W3CRR

4700. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 01:53:13 UTC
From: Dennis Weal
Topic: 14 Message: 4700

So it is to be assumed that the TR-7/R-7 has the same deficient connectoring as the UV-3? Sounds about right. I will stick to toobs.

Denny
W4EAL

----- Original Message -----
From: Craig Roberts
Sent: 12/06/10 08:29 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-7 audio MIRACLE CURE!

Many thanks to Garey for his excellent advice on resurrecting my TR-7's dead audio.

As it happens, no component replacements were necessary. My radio was, in fact, apparently suffering from that mysterious and not uncommon TR-7 ailment: "Acute Connectoritis."

I had removed the supposedly faulty audio board for the purposes of visual and olfactory inspection. No unplesantness was noted. Nevertheless, I was about to log onto Mouser to order an electrolytic and tantalum to replace the components I assumed I had fried when I decided to plug the board back into my radio just to keep it safe until new parts arrived. "What the heck," I thought, "why not turn on the rig and see if" [defying logic and entering into the realm of myth] the wound had healed itself overnight.

By golly, it had.

Incidentally, this radio, a late model TR-7 with the "split back", actually did have an SL61545 audio amp IC in it. My early model "spare" TR-7 has the LM380. Curious, ain't it, since -- as Garey noted -- the LM380 is still available and the SL61545 is obsolete.

Of course, boards could have been swapped by previous owners or service techs. Both rigs, though nicely restored, show evidence of reworking.

Anyway, thanks again, Garey. Your advice ahs been stored away for future reference.

73,

Craig
W3CRR

[Non-text portions of this message have been removed]

4701. Re: R7A to TR7 cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 02:55:18 UTC
From: w1fued@sbcglobal.net
Topic: 4697 Message: 4701

make your own,,,,
I recently did it, the schematic is availble on drake page, and the plugs are available from mouser, 2 pieces of coax and 6 wires, I believe, put in shrink tubing, nice result for about 20 bux.
Ed

--- In DrakeRadio@yahoogroups.com, docbrent@... wrote:
>
>
> Can anyone point me to a cable for slaving my new-to-me R7A to my TR 7?
>
> Thanks,
>
> Brenton
> VE6IE
>

4702. Re: [DrakeRadio] Re: R7A to TR7 cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 02:58:39 UTC
From: Brenton Crowhurst
Topic: 4697 Message: 4702

Hey Ed,

Thanks for the tip!

I'll take a look at that, and then try to judge where it places on the self-efficacy to self-induced-aggravation continuum.

73,
Brenton, VE6IE

On 2010-12-06, at 7:55 PM, w1fued@...t wrote:

> make your own,,,,
> I recently did it, the schematic is availble on drake page, and the plugs are available from mouser, 2 pieces of coax and 6 wires, I believe, put in shrink tubing, nice result for about 20 bux.
> Ed
>
> --- In DrakeRadio@yahoogroups.com, docbrent@... wrote:
> >
> >
> > Can anyone point me to a cable for slaving my new-to-me R7A to my TR 7?
> >
> > Thanks,
> >
> > Brenton
> > VE6IE
> >
>
>

[Non-text portions of this message have been removed]

4703. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 03:10:57 UTC
From: Richard Knoppow
Topic: 14 Message: 4703

----- Original Message -----
From: "Dennis Weal" <w4eal@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, December 06, 2010 5:53 PM
Subject: Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

> So it is to be assumed that the TR-7/R-7 has the same
> deficient connectoring as the UV-3? Sounds about right. I
> will stick to toobs.
>
>
> Denny
> W4EAL
>
I don't know what kind of connectors the TR=7 and UV-3 use but card edge connectors and Molex connectors are notorious trouble makers. I used to work on MCI audio equipment, large recording consoles and multi-track recording machines, nearly all of the troubles could be cured by cleaning and working the connectors. But, this is also true of much other equipment even when the connectors are gold plated. While the gold may not corrode it can still get dirty. Many times just working the connector will fix it even without the use of contact cleaner.
BTW, this is also a problem with the audio and video connectors at the TV plant, they develop high resistance or intermittant problems. The only cure is frequent cleaning by working a plug in the jack. Can be a problem when you have thousands of them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4704. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 03:26:18 UTC
From: Garey Barrell
Topic: 14 Message: 4704

Denny -

Not 'deficient', just connectors. Rule of thumb, the fewer connectors,
the longer Mean Time Before Failure. Especially true in solid state
stuff because there just isn't enough current or voltage to burn through
even the slightest film of corrosion.

When your tube gear fails, simply unplugging and re-plugging a few
connectors probably isn't going to fix it! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Dennis Weal wrote:
> So it is to be assumed that the TR-7/R-7 has the same deficient connectoring as the UV-3?
Sounds about right. I will stick to toobs.
>
>
> Denny
> W4EAL
>
>
> ----- Original Message -----
> From: Craig Roberts
> Sent: 12/06/10 08:29 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] TR-7 audio MIRACLE CURE!
>
> Many thanks to Garey for his excellent advice on resurrecting my TR-7's
> dead audio.
>
> As it happens, no component replacements were necessary. My radio was,
> in fact, apparently suffering from that mysterious and not uncommon TR-7
> ailment: "Acute Connectoritis."
>
> I had removed the supposedly faulty audio board for the purposes of
> visual and olfactory inspection. No unplesantness was noted.
> Nevertheless, I was about to log onto Mouser to order an electrolytic
> and tantalum to replace the components I assumed I had fried when I
> decided to plug the board back into my radio just to keep it safe until
> new parts arrived. "What the heck," I thought, "why not turn on the rig
> and see if" [defying logic and entering into the realm of myth] the

> wound had healed itself overnight.
>
> By golly, it had.
>
> Incidentally, this radio, a late model TR-7 with the "split back",
> actually did have an SL61545 audio amp IC in it. My early model "spare"
> TR-7 has the LM380. Curious, ain't it, since -- as Garey noted -- the
> LM380 is still available and the SL61545 is obsolete.
>
> Of course, boards could have been swapped by previous owners or service
> techs. Both rigs, though nicely restored, show evidence of reworking.
>
> Anyway, thanks again, Garey. Your advice ahs been stored away for
> future reference.
>
> 73,
>
> Craig
> W3CRR
>
>

4705. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 03:39:55 UTC
From: Jim Shorney
Topic: 14 Message: 4705

On Mon, 06 Dec 2010 20:53:13 -0500, Dennis Weal wrote:

>So it is to be assumed that the TR-7/R-7 has the same deficient connectoring as the UV-3? Sounds about right. I will stick to toobs.

You're joking, right? This malady is not restricted to solid-state devices. Mechanical connections in high impedance/low current areas of tube circuits can be similarly affected. A good example would be the RX side of a T/R relay.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4706. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 03:40:28 UTC
From: Jim Shorney
Topic: 14 Message: 4706

On Mon, 06 Dec 2010 20:29:54 -0500, Craig Roberts wrote:

>As it happens, no component replacements were necessary. My radio was,
>in fact, apparently suffering from that mysterious and not uncommon TR-7
>ailment: "Acute Connectoritis."

I was going to suggest that.... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4707. Re: [DrakeRadio] Re: R7A to TR7 cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 04:01:08 UTC
From: Jim Shorney
Topic: 4697 Message: 4707

On Tue, 07 Dec 2010 02:55:18 -0000, w1fued@... wrote:

>make your own,,,,
>I recently did it, the schematic is availble on drake page, and the plugs are available from mouser, 2 pieces of coax and 6 wires, I believe, put in shrink tubing, nice result for about 20 bux.
>Ed

Been there, done that, easily done. I used some low capacitance Teflon coax that I had around, but I imagine ordinary RG-174/U or RG-58A/U would work for the RF part. Any old wire can be used for the control lines.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4708. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 13:52:27 UTC
From: Garey Barrell
Topic: 14 Message: 4708

Craig -

I think it's been said here and other places more than a few times, "
95% of TR-7 'failures' can be repaired by simply wiggling the boards in
their sockets." I often fail to mention that, thinking it's one of
those things 'everybody knows'! :-) I need to put a 'disclaimer' at
the front of each repair message..... :-)

Glad you got it fixed with no more pain than that!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
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> decided to plug the board back into my radio just to keep it safe until
> new parts arrived. "What the heck," I thought, "why not turn on the rig
> and see if" [defying logic and entering into the realm of myth] the
> wound had healed itself overnight.
>
> By golly, it had.
>
> Incidentally, this radio, a late model TR-7 with the "split back",
> actually did have an SL61545 audio amp IC in it. My early model "spare"
> TR-7 has the LM380. Curious, ain't it, since -- as Garey noted -- the
> LM380 is still available and the SL61545 is obsolete.
>
> Of course, boards could have been swapped by previous owners or service
> techs. Both rigs, though nicely restored, show evidence of reworking.
>
> Anyway, thanks again, Garey. Your advice ahs been stored away for
> future reference.

>
> 73,
>
> Craig
> W3CRR
>
>

4709. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 14:00:11 UTC
From: Garey Barrell
Topic: 14 Message: 4709

Jim Shorney wrote:
> On Mon, 06 Dec 2010 20:29:54 -0500, Craig Roberts wrote:
>
>
>> As it happens, no component replacements were necessary. My radio was,
>> in fact, apparently suffering from that mysterious and not uncommon TR-7
>> ailment: "Acute Connectoritis."
>>
> I was going to suggest that.... :)
>
>
>
Jim -

Yeah, I know.... :-)

I seem to recall a rule of thumb from my NASA days that each connector in a system reduces the unit reliability by 1%. The connectors that we used were gold plated, hermetically sealed and $50+ each, and I think the rule applied if THEY were used. :-) The more critical a unit was, the fewer connectors it had.

Interestingly, with PC boards that had gold plated traces, we had to REMOVE the gold from the solder pad area before soldering. Seems the gold leached out into the solder, weakening the solder/copper bond. BUT the solder had to extend from the pad out onto the gold. Hmmmmmmm. The world of 'reliability' is a strange world indeed. :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-B, C-Line&
TR-4/C Service Supplement CDs
<www.k4oah.com>

4710. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-07 15:24:45 UTC
From: Craig Roberts
Topic: 14 Message: 4710

Actually, I'm a bit embarrassed by my original inquiry about a lack of receiver audio output..

I had ASSUMED that because I found the audio output line cable dislodged and the failure was sudden that components had been fried.

I had ASSUMED that because all of the radio's circuit board connectors had been cleaned within the past few months that a bad internal connection was highly improbable.

Well, you know what they say about those who ASSUME.

I should have known better. With one exception, every problem I have had with the three TR-7s that I have owned have been due to "Acute Connectoritus." Next time, I'll check the connectors first. No, really. I will. (BTW, that's about the eighth time I've said that).

73,

Craig
W3CRR

>
>
>

[Non-text portions of this message have been removed]

4711. Re: Initial TR-4 Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-08 00:01:50 UTC
From: PaulG
Topic: 4685 Message: 4711

Worked some more on the TR-4 Today and now have transmit modulation after checking all the tubes and wiggling and poking.

Transmit seems to have good power and NOW has modulation as well.

Still have the following 'issues'

One sideband is not working and it does not seem to be the switch. The filter seems to be 'open' from listening to the RX and their is no TX through it either. Other sideband seems fine.

RX is still very weak strong signals are only moving the meter to S-3 or so. Cal tone is 10db over S9 on 40M. I am going to look at the antenna relay.

S meter goes to 50 over when the RF gain is turned down all the way, it does not Pin.

S meter only goes to S9-10 over when in TX

Any ideas on what other checking I can do.

Have sprayed and cleaned, set the bias on the finals, tested all the tubes,

Paul K3PG

4712. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-08 00:44:03 UTC
From: Jim Shorney
Topic: 14 Message: 4712

On Tue, 07 Dec 2010 10:24:45 -0500, Craig Roberts wrote:

>I should have known better. With one exception, every problem I have
>had with the three TR-7s that I have owned have been due to "Acute
>Connectoritus." Next time, I'll check the connectors first. No,
>really. I will. (BTW, that's about the eighth time I've said that).

Yeah, and I'm starting to sound like a broken record because anytime someone comes by with a strange 7-line problem, I tell them to check the connectors. That's why I was waiting for Garey to cover this one... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4713. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-08 00:59:27 UTC
From: Jim Shorney
Topic: 14 Message: 4713

On Tue, 07 Dec 2010 09:00:11 -0500, Garey Barrell wrote:

>I seem to recall a rule of thumb from my NASA days that each connector
>in a system reduces the unit reliability by 1%. The connectors that we
>used were gold plated, hermetically sealed and $50+ each, and I think
>the rule applied if THEY were used. :-) The more critical a unit
>was, the fewer connectors it had.
>
>Interestingly, with PC boards that had gold plated traces, we had to
>REMOVE the gold from the solder pad area before soldering. Seems the
>gold leached out into the solder, weakening the solder/copper bond. BUT
>the solder had to extend from the pad out onto the gold. Hmmmmmmm.
>The world of 'reliability' is a strange world indeed. :-)

Interestig stuff, Garey. I knew that the gold leaches into the solder, but not that it was such an issue. I do know that NASA likes crimp-on connectors for reliability, and have read of the "tin whiskers" promblems with no-lead solder (abominable stuff, that).

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4714. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-08 03:05:56 UTC
From: Don Cunningham
Topic: 14 Message: 4714

And, Jim, that's why Garey didn't say it, he KNEW you would, HI HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4715. Re: [DrakeRadio] TR-7 audio MIRACLE CURE!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-08 04:22:53 UTC
From: Jim Shorney
Topic: 14 Message: 4715

Hey Garey, can you put that in the welcome message that people get when they join the group?

On Tue, 7 Dec 2010 21:05:56 -0600, Don Cunningham wrote:

>And, Jim, that's why Garey didn't say it, he KNEW you would, HI HI.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4716. FS: Tube pin straighteners and adapters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-10 22:07:34 UTC
From: Bry Carling
Topic: 4716 Message: 4716

FOR SALE: Tube pin straighteners and adapters

QTY 2 Tube pin straighteners used for 7 pin miniature tubes.
$5.00 each

QTY 1 - Pomona Test Socket Adapter 9-PIN miniature. Has side terminals.
Bakelite approx. 1 inch tall. - $6.00

QTY 1 - Pomona Test Socket Adapter 7-PIN miniature. Has side terminals.
Red plastic approx. 1.5 inch tall. - $6.00

QTY 1 - CBS Hytron Test Socket Adapter 7-PIN miniature. Has side
terminals. Black plastic approx. 1 inch tall. - $6.00

QTY 1 - Pomona Socket Saver 9-PIN miniature.
black plastic approx. 1 inch tall. - $4.00

Shipping additional.

73 de AF4K - Brian

[Non-text portions of this message have been removed]

4717. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-12 19:46:03 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4717

All group memebers are welcome to post here on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others (what you put into this group you will get back so participate if you have a chance). Although we would like to focus on Drake Radio subject matter any Ham Radio subject matter is allowed. This includes any QST's of events or hamfests, especially if Drake radios are included

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our groups home page, as well as links to Drake information or your homepage.
Thanks to all members for your particapation.

Don
KE7FFM

4718. AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-13 23:24:14 UTC
From: Dick KF4NS
Topic: 4718 Message: 4718

A while back I recall a discussion about the heat in the AC4/AC4R. Now that my rig is back in the shelf along with the PS in the MS-4, I notice that the back of the AC4R is too hot to touch for more than a couple seconds. I worry about cooking the xfmr too much.

I could put a fan on the rear apron, and if so, is there a preference on the location? Also, would it make any difference which direction the air flow goes?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4719. Re: [Drakelist] AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-13 23:53:45 UTC
From: phbjr@aol.com
Topic: 4719 Message: 4719

After rebuilding my AC-4 I decided to *NOT* mount it in the MS-4. The cable from the AC-4 to the T-4X is so long (5 feet, maybe?) that it's easy to find a place to put the power supply where it's out of the way but not boxed in.

73,

Paul, K4MSG

In a message dated 12/13/2010 6:36:49 P.M. Eastern Standard Time, kf4nsradio@... writes:

A while back I recall a discussion about the heat in the AC4/AC4R. Now that my rig is back in the shelf along with the PS in the MS-4, I notice that the back of the AC4R is too hot to touch for more than a couple seconds. I worry about cooking the xfmr too much.

I could put a fan on the rear apron, and if so, is there a preference on the location? Also, would it make any difference which direction the air flow goes?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

_____
Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

[Non-text portions of this message have been removed]

4720. Re: [DrakeRadio] AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-14 00:00:28 UTC
From: Dennis Weal
Topic: 4718 Message: 4720

Considering that there is no direct intake, I would blow air onto the supply. I personally have never felt that much heat coming from the supply. I do not have either of my AC4's mounted in the MS4 housings. Maybe that is why I don't have the problem. I do not use fans either.

Denny
w4eal

----- Original Message -----
From: Dick KF4NS
Sent: 12/13/10 06:24 PM
To: DrakeRadio list, Drake list at zerobeat, drake@...
Subject: [DrakeRadio] AC4 heat

A while back I recall a discussion about the heat in the AC4/AC4R. Now that my rig is back in the shelf along with the PS in the MS-4, I notice that the back of the AC4R is too hot to touch for more than a couple seconds. I worry about cooking the xfmr too much.

I could put a fan on the rear apron, and if so, is there a preference on the location? Also, would it make any difference which direction the air flow goes?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

[Non-text portions of this message have been removed]

4721. Re: [Drakelist] AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-14 00:02:57 UTC
From: Curt Nixon
Topic: 4718 Message: 4721

Generally, transformers can and do run hot enough that you can't leave your hand on them for very long. They will be fine like this..but...heat does deteriorate plastics and varnishes like that used inside. Electrolytic caps also have reduced lifetimes depending on heat. So I have elected to add a silenx super quiet fan to my AC4. I drilled a series of holes in a pattern to match the 80mm fan. The fan is mounted on one end of the long side of the aluminum cover. It has holes along the sides to allow air IN so the fan draws air OUT. If you want to see pictures of this, I can take a few.

I agonized over doing this to the cover but have no regrets at this point...The PS runs cool enough that it is hard to tell it is on. It still fits inside the MS4 if required, and is dead quiet. These silenx fans are about 7.00 bucks.

I added similar fan to the PS for my TR7 as well. Many commercial power supplies use fans for continuous operation even though the transformers are rated to run at elevated temperatures.

FWIW

Curt
KU8L

Dick KF4NS wrote:
> A while back I recall a discussion about the heat in the AC4/AC4R. Now
> that my rig is back in the shelf along with the PS in the MS-4, I
> notice that the back of the AC4R is too hot to touch for more than a
> couple seconds. I worry about cooking the xfmr too much.
>
> I could put a fan on the rear apron, and if so, is there a preference
> on the location? Also, would it make any difference which direction
> the air flow goes?
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
> _____
> Drakelist mailing list
> Drakelist@...
> http://mailman.zerobeat.net/mailman/listinfo/drakelist
>

4722. FS: Some more radio parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-14 14:34:11 UTC
From: Bry Carling
Topic: 4722 Message: 4722

FOR SALE:

1) BOX of 10 Ceramic Variable Capacitors. Various values from 30 pF
and up. Some transmitting, some receiving. All ten for $20.00 plus shipping.

2) 100 kHz crystals - new, tall type hc13u calibrator crystal as used in all
tube era radios. FIts the same soicket as an hc6u crystal. Available for
$19.00 each plus shipping.

3) Lacing cord for wiring harnesses. New, 300 yard spool available for
$12.50 plus shipping.

4) Pair of 2E26 transmitting tubes. Used, good tested tube pair for $5.00
plus shipping.

5) EIMAC 4-65A transmitting tube with ceramic socket in excellent condition.
QTY 1 available for $8.00 plus shipping.

6) RCA 832 mil-spec transmitting tube - looks new.
QTY 1 available for $5.00 plus shipping.

7) G.E. 6997 VHF transmitting tube, used. Looks OK.
QTY 1 available for $2.00 plus shipping.

8) Drake Crystal for R4A, R4B or R4C, covers 10.0 - 10.5 MHz
QTY 1 available for $12.00

9) Group of hc6u crystals on 7000 kHz, 7100 kHz, 7159 kHz, 7170 kHz,
and QTY 2 X 7174 kHz. TOTAL of six mil surplus crystals for $12.00
plus shipping.

10) Pair of FT243 crystals on 3880 kHz. One for you and one for a friend!
These are available for $10.00 each plus shipping.

11) Broadcast band FT243 crystals. 1200 kHz, 1300 kHz, 1475 kHz, 1600
kHz, 1585 kHz. Available for $14.00 each plus shipping.

73 and thanks for looking.

Brian, AF4K

[Non-text portions of this message have been removed]

4723. Re: [DrakeRadio] FS: Some more radio parts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-14 23:22:07 UTC
From: lon brickley
Topic: 4722 Message: 4723

BRY IS THE XTAL FOR R4C FOR 10 TO 10.5 STILL AVAILABLE..IF SO I WILL BUY IT W4AFS L ON TELL ME HOW MUCH TO SENDU LON
----- Original Message -----
From: Bry Carling
To: drake-radio-operators@yahoogroups.com ; drakelist@... ; DrakeRadio@yahoogroups.com ; Drake-Radios@yahoogroups.com ; EICO7@yahoogroups.com
Sent: Tuesday, December 14, 2010 9:34 AM
Subject: [DrakeRadio] FS: Some more radio parts

FOR SALE:

1) BOX of 10 Ceramic Variable Capacitors. Various values from 30 pF
and up. Some transmitting, some receiving. All ten for $20.00 plus shipping.

2) 100 kHz crystals - new, tall type hc13u calibrator crystal as used in all
tube era radios. FIts the same soicket as an hc6u crystal. Available for
$19.00 each plus shipping.

3) Lacing cord for wiring harnesses. New, 300 yard spool available for
$12.50 plus shipping.

4) Pair of 2E26 transmitting tubes. Used, good tested tube pair for $5.00
plus shipping.

5) EIMAC 4-65A transmitting tube with ceramic socket in excellent condition.
QTY 1 available for $8.00 plus shipping.

6) RCA 832 mil-spec transmitting tube - looks new.
QTY 1 available for $5.00 plus shipping.

7) G.E. 6997 VHF transmitting tube, used. Looks OK.
QTY 1 available for $2.00 plus shipping.

8) Drake Crystal for R4A, R4B or R4C, covers 10.0 - 10.5 MHz
QTY 1 available for $12.00

9) Group of hc6u crystals on 7000 kHz, 7100 kHz, 7159 kHz, 7170 kHz,
and QTY 2 X 7174 kHz. TOTAL of six mil surplus crystals for $12.00
plus shipping.

10) Pair of FT243 crystals on 3880 kHz. One for you and one for a friend!
These are available for $10.00 each plus shipping.

11) Broadcast band FT243 crystals. 1200 kHz, 1300 kHz, 1475 kHz, 1600
kHz, 1585 kHz. Available for $14.00 each plus shipping.

73 and thanks for looking.

Brian, AF4K

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4724. Crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-15 10:55:37 UTC
From: Bry Carling
Topic: 4724 Message: 4724

The crystal was sold - thanks Lon.

If the deal falls through, I will let you know.

All the best - Bry

1b. Re: FS: Some more radio parts
Posted by: "lon brickley" lonafs@... radio.w4afs
Date: Tue Dec 14, 2010 3:22 pm ((PST))

BRY IS THE XTAL FOR R4C FOR 10 TO 10.5 STILL AVAILABLE..IF SO I
WILL BUY
IT W4AFS L ON TELL ME HOW MUCH TO SENDU LON

[Non-text portions of this message have been removed]

4725. Re: AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-15 22:50:29 UTC
From: Dick KF4NS
Topic: 4718 Message: 4725

Denny,
I took your advice and moved the AC-4 to a floor location outside the MS-4 and let it run all day. It is pretty warm but not too hot to touch as it was before. No fan needed now. Thanks for the reply.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

Re: AC4 heat
Posted by: "Dennis Weal" w4eal@... w4eal
Mon Dec 13, 2010 4:02 pm (PST)

Considering that there is no direct intake, I would blow air onto the supply. I personally have never felt that much heat coming from the supply. I do not have either of my AC4's mounted in the MS4 housings. Maybe that is why I don't have the problem. I do not use fans either.

Denny
w4eal

----- Original Message -----
From: Dick KF4NS
Sent: 12/13/10 06:24 PM
To: DrakeRadio list, Drake list at zerobeat, drake@...
Subject: [DrakeRadio] AC4 heat

A while back I recall a discussion about the heat in the AC4/AC4R. Now that my rig is back in the shelf along with the PS in the MS-4, I notice that the back of the AC4R is too hot to touch for more than a couple seconds. I worry about cooking the xfmr too much.

I could put a fan on the rear apron, and if so, is there a preference on the location? Also, would it make any difference which direction the air flow goes?

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4726. Re: [DrakeRadio] Re: AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-15 23:51:56 UTC
From: Dennis Weal
Topic: 4718 Message: 4726

Glad I was able to help Dick. These AC4's lasted 45 years without a fan even when installed in the MS4, so I believe that out of the restricted area it would last maybe 70? Hi Hi. I rebuilt one of mine with the Heath Kit site AC4r board (it wasn't bad but what the heck) and it doesn't run any cooler. Back in the day heat was the norm and I never heard of all this fan stuph. I guess it doesn't hurt to give it a blower but just seems a waste of time. With all this alarmist global warming trash (single digits last 2 nights here in TN) people are worried about extra heat (bring it on!!!!!!). I like warm otherwise I would move north. I digress.

73 Dick

Denny

----- Original Message -----
From: Dick KF4NS
Sent: 12/15/10 05:50 PM
To: DrakeRadio list, w4eal@...
Subject: [DrakeRadio] Re: AC4 heat

[Non-text portions of this message have been removed]

4727. Re: [Drakelist] AC4 heat

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-15 23:24:24 UTC
From: Chuck Grandgent
Topic: 4718 Message: 4727

I see both the yahoogroups and zerobeat lists are listed on this thread, but I'll reply with both anyway. (I personally don't feel cross-posting to both lists is a wise idea, better then to stick with just one list, why have two ?)

Another reason to not have the AC-3/4 in the MS-4 - my shack is out in the garage, and every spring the little birdies insist on trying to build nests in the garage despite the fact the door is closed during the night.

Well, I luckily noticed the little birdies had thoroughly stuffed a nest in the back of my MS-4, and had I not noticed it, a fire would have been probable had I turned it on.

Chuck, K1OM

On Wed, Dec 15, 2010 at 5:50 PM, Dick KF4NS <kf4nsradio@...> wrote:

> Denny,
> I took your advice and moved the AC-4 to a floor location outside the MS-4
> and let it run all day. It is pretty warm but not too hot to touch as it was
> before. No fan needed now. Thanks for the reply.
>
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
>
> Re: AC4 heat
> Posted by: "Dennis Weal" w4eal@... w4eal
> Mon Dec 13, 2010 4:02 pm (PST)
>
>
> Considering that there is no direct intake, I would blow air onto the
> supply. I personally have never felt that much heat coming from the supply.
> I do not have either of my AC4's mounted in the MS4 housings. Maybe that is
> why I don't have the problem. I do not use fans either.
>
> Denny
> w4eal
>
>
> ----- Original Message -----
> From: Dick KF4NS
> Sent: 12/13/10 06:24 PM
> To: DrakeRadio list, Drake list at zerobeat, drake@...

> Subject: [DrakeRadio] AC4 heat
>
> A while back I recall a discussion about the heat in the AC4/AC4R. Now
> that my rig is back in the shelf along with the PS in the MS-4, I
> notice that the back of the AC4R is too hot to touch for more than a
> couple seconds. I worry about cooking the xfmr too much.
>
> I could put a fan on the rear apron, and if so, is there a preference
> on the location? Also, would it make any difference which direction
> the air flow goes?
>
> 73, Dick KF4NS
> St Petersburg, FL 33714 USA
> Keep The Glow!
>
>
> _____
> Drakelist mailing list
> Drakelist@...
> http://mailman.zerobeat.net/mailman/listinfo/drakelist
>

[Non-text portions of this message have been removed]

4728. TR4310 & TR7 comparison??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-16 16:12:55 UTC
From: Craig Roberts
Topic: 4728 Message: 4728

I have long wanted to rack mount one of my TR 7s in order to consolidate space in my shack/audio production studio.

Accordingly, I seized upon the opportunity to purchase a TR 4310 front panel from an eBay vendor a couple of days ago and anxiously await its arrival. It APPEARS as it the front panel swap should be trouble-free asince the control layouts seem identical. It looks as if only the internal speaker will need to be relocated (I prefer a front-firing one anyway). Am I correct?

I know that the circuitry differs in the two radios with the 4310 using the RV-75-type tuning scheme. Are there any other significant differences or useful ones i can incorporate into my TR 7 / "mock"TR 4310?

Thanks, gurus,

73,

Craig
W3CRR

4729. Re: [DrakeRadio] TR4310 & TR7 comparison??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-16 16:49:14 UTC
From: Richard Knoppow
Topic: 4728 Message: 4729

----- Original Message -----
From: "Craig Roberts" <crgrbrts@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, December 16, 2010 8:12 AM
Subject: [DrakeRadio] TR4310 & TR7 comparison??

>I have long wanted to rack mount one of my TR 7s in order
>to consolidate
> space in my shack/audio production studio.
>
> Accordingly, I seized upon the opportunity to purchase a
> TR 4310 front
> panel from an eBay vendor a couple of days ago and
> anxiously await its
> arrival. It APPEARS as it the front panel swap should be
> trouble-free
> asince the control layouts seem identical. It looks as if
> only the
> internal speaker will need to be relocated (I prefer a
> front-firing one
> anyway). Am I correct?
>
> I know that the circuitry differs in the two radios with
> the 4310 using
> the RV-75-type tuning scheme. Are there any other
> significant
> differences or useful ones i can incorporate into my TR 7
> / "mock"TR 4310?
>
> Thanks, gurus,
>
> 73,
>
> Craig
> W3CRR

There are shelf units available for racks, perhaps one
of those would accomplish the purpose without having to
modify the rig.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4730. Drake R4C PTO drift - solved

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-16 23:01:40 UTC
From: arsnf7z
Topic: 4730 Message: 4730

greetings ..

I've told this story here before and now that the issue has been vanquished, I thought it might be of some interest to others to detail a problem that has lingered on since I bought the R4C new in 1976.

at that time, I only owned the R4C that I bought as a present to myself when I graduated from Stanford. I had a R4B previously, and was never satisfied with the audio. there was always a rasp on SSB that I never heard on the various Japanese radios on display at HRO. I traded the R4B and a Hallicrafters HT-32B for a new Drake R4C with all the goodies and filters. it always seemed to drift outside of specifications, but was certainly useable with continuous corrections applied. I didn't have a transmitter so it was just a nuisance and quickly forgotton.

fast forward thirty-five years and with a resurgance of interest in vacuum-tubed equipment, I resurrected the R4C and bought the matching T4XC and a TR4C transceiver. I brough everything up to spec, electrically and aesthetically and essentially have like-new Drake equipment in the shack. the one issue was the drift on the R4C. the PTO(s) in both the T4XC and TR4C were rock solid, but the R4C drifted about 1.5khz over several hours. the spec is essentially 100hz after warmup and the R4C exceed that by an order of magnitude. something was clearly amiss.

I initially thought it was a simple matter of heat. a poor design, the class A audio stage radiates heat up to the PTO along with a dropping resistor for the PTO supply, and all this was exacerbated by the noise-blanker option I had installed that acted as a ceiling to contain the heat. I can't tell you how many iterations of swapping out a PTO from a spare RV4C, using a separate and regulated 11 volt supply for the PTO, and several additional measures in my attempts to find the problem. nothing worked, except I noted that when exchanging the PTO for the RV4C PTO, the drift was considerably less, punching a hole in my heat-buildup theory. of course, that really didn't make much sense because Drake would have seen this same condition in the design. the heat on my R4C was certainly not unique!

out of frustration I tore into the PTO this week looking for clues. the 1N714 zener was slightly out of spec and replacing it yielding nothing new. when I disconnected the supply to the 2N3563 and measured the output at the FSK output-pin it was stable. replacing the 2N3563 buffer NPN transistor solved the problem. it was apparently a leakage problem that would load the 2N5950 oscillator stage excessively.

finally ... 35 years later, I have a R4C working to specification. I am still not pleased with the audio from the product detector. the TR4C audio sounds much better and neither sounds as nice a my Icom IC-7000 unfortunately. however, the Drakes are so much more fun to use and I rarely use anything else. the 75 and 40 meter bands are wide-open in the evenings here in the San Juan Island archipelago, and it would be fun to chat with other Drake fanatics on schedule.

I'll get around to redesigning the product-detector sometime in the next 35 years or so. the Drakes will still be here with me.

73's

NF7Z, daniel
Friday Harbor, Wa.
San Juan Island

4731. Re: [DrakeRadio] Drake R4C PTO drift - solved

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-16 23:03:39 UTC
From: navydude1962@yahoo.com
Topic: 4730 Message: 4731

Try some Sherwood mods...
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "arsnf7z" <ars.nf7z@...>
Sender: DrakeRadio@yahoogroups.com
Date: Thu, 16 Dec 2010 23:01:40
To: <DrakeRadio@yahoogroups.com>
Reply-To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake R4C PTO drift - solved

greetings ..

I've told this story here before and now that the issue has been vanquished, I thought it might be of some interest to others to detail a problem that has lingered on since I bought the R4C new in 1976.

at that time, I only owned the R4C that I bought as a present to myself when I graduated from Stanford. I had a R4B previously, and was never satisfied with the audio. there was always a rasp on SSB that I never heard on the various Japanese radios on display at HRO. I traded the R4B and a Hallicrafters HT-32B for a new Drake R4C with all the goodies and filters. it always seemed to drift outside of specifications, but was certainly useable with continuous corrections applied. I didn't have a transmitter so it was just a nuisance and quickly forgotton.

fast forward thirty-five years and with a resurgance of interest in vacuum-tubed equipment, I resurrected the R4C and bought the matching T4XC and a TR4C transceiver. I brough everything up to spec, electrically and aesthetically and essentially have like-new Drake equipment in the shack. the one issue was the drift on the R4C. the PTO(s) in both the T4XC and TR4C were rock solid, but the R4C drifted about 1.5khz over several hours. the spec is essentially 100hz after warmup and the R4C exceed that by an order of magnitude. something was clearly amiss.

I initially thought it was a simple matter of heat. a poor design, the class A audio stage radiates heat up to the PTO along with a dropping resistor for the PTO supply, and all this was exacerbated by the noise-blanker option I had installed that acted as a ceiling to contain the heat. I can't tell you how many iterations of swapping out a PTO from a spare RV4C, using a separate and regulated 11 volt supply for the PTO, and several additional measures in my attempts to find the problem. nothing worked, except I noted that when exchanging the PTO for the RV4C PTO, the drift was considerably less, punching a hole in my heat-buildup theory. of course, that really didn't make much sense because Drake would have seen this same condition in the design. the heat on my R4C was certainly not unique!

out of frustration I tore into the PTO this week looking for clues. the 1N714 zener was slightly out of spec and replacing it yielding nothing new. when I disconnected the supply to the 2N3563 and measured the output at the FSK output-pin it was stable. replacing the 2N3563 buffer NPN transistor solved the problem. it was apparently a leakage problem that

would load the 2N5950 oscillator stage excessively.

finally ... 35 years later, I have a R4C working to specification. I am still not pleased with the audio from the product detector. the TR4C audio sounds much better and neither sounds as nice a my Icom IC-7000 unfortunately. however, the Drakes are so much more fun to use and I rarely use anything else. the 75 and 40 meter bands are wide-open in the evenings here in the San Juan Island archipelago, and it would be fun to chat with other Drake fanatics on schedule.

I'll get around to redesigning the product-detector sometime in the next 35 years or so. the Drakes will still be here with me.

73's

NF7Z, daniel
Friday Harbor, Wa.
San Juan Island

[Non-text portions of this message have been removed]

4732. Re: [DrakeRadio] Drake R4C PTO drift - solved

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-16 23:20:31 UTC
From: Don Cunningham
Topic: 4730 Message: 4732

Thanks for sharing that fix, Daniel. That's what makes this reflector so valuable!!! I am going to rebuild one of my T4XC/R4C pairs over the winter, and will check these problems out as I re-cap and refurb. One pair will be for sale in the spring, if anyone is interested, but that's for another day, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4733. Re: [DrakeRadio] Racks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-17 02:18:39 UTC
From: Fernando
Topic: 4728 Message: 4733

Hello

Speaking of racks, I just moved some of the rigs into

two 2 post racks. All shelves.

Have a look: <http://pages.sbcglobal.net/n2fq/>

Fernando N2FQ/6

On Dec 16, 2010, at 8:49 AM, Richard Knoppow wrote:

>
> ----- Original Message -----
> From: "Craig Roberts" <crgrbrts@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, December 16, 2010 8:12 AM
> Subject: [DrakeRadio] TR4310 & TR7 comparison??
>
>
>> I have long wanted to rack mount one of my TR 7s in order
>> to consolidate
>> space in my shack/audio production studio.
>>
>> Accordingly, I seized upon the opportunity to purchase a
>> TR 4310 front
>> panel from an eBay vendor a couple of days ago and
>> anxiously await its
>> arrival. It APPEARS as it the front panel swap should be
>> trouble-free
>> asince the control layouts seem identical. It looks as if
>> only the
>> internal speaker will need to be relocated (I prefer a
>> front-firing one
>> anyway). Am I correct?
>>
>> I know that the circuitry differs in the two radios with
>> the 4310 using
>> the RV-75-type tuning scheme. Are there any other
>> significant
>> differences or useful ones i can incorporate into my TR 7
>> / "mock"TR 4310?
>>
>> Thanks, gurus,
>>
>> 73,

>>
>> Craig
>> W3CRR
>
> There are shelf units available for racks, perhaps one
> of those would accomplish the purpose without having to
> modify the rig.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

4734. MN4 Tuner, again (sorry)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-18 03:03:51 UTC
From: billykatzz
Topic: 4734 Message: 4734

OK, I got my G5RV up to about 40 feet flat, cut the ladderline down to 34 feet, and my MN4 refuses to get a decent match. Tried the ladderline at 31 feet: no dice.

With the MN4, there's an 80A and 80B. I can get it down below 2 on the "B" side, fugedaboudit on the A side. Still, the impedance match is probably appalling if I checked the SWR.

I'm starting to wonder if it might be something in the MN4. No problem getting it to match on 40, 20, and 15. Is it possible the fixed caps for the 80 meter positions have gone south on the unit or something like that?

I hate antenna tuning problems. Reminds me why I gave up ham radio 40 years ago.

Bill in Pasadena, NK6Q

4735. Re: [DrakeRadio] MN4 Tuner, again (sorry)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-18 03:22:37 UTC
From: Dennis Kippa
Topic: 4734 Message: 4735

How long is your 50 ohm feedline?

Dennis

From: billykatzz <rsilvercat@earthlink.net>
To: DrakeRadio@yahoogroups.com
Cc:
Sent: Friday, December 17, 2010 9:03:51 PM
Subject: [DrakeRadio] MN4 Tuner, again (sorry)

OK, I got my G5RV up to about 40 feet flat, cut the ladderline down to 34 feet, and my MN4 refuses to get a decent match. Tried the ladderline at 31 feet: no dice.

With the MN4, there's an 80A and 80B. I can get it down below 2 on the "B" side, fugedaboudit on the A side. Still, the impedance match is probably appalling if I checked the SWR.

I'm starting to wonder if it might be something in the MN4. No problem getting it to match on 40, 20, and 15. Is it possible the fixed caps for the 80 meter positions have gone south on the unit or something like that?

I hate antenna tuning problems. Reminds me why I gave up ham radio 40 years ago.

Bill in Pasadena, NK6Q

[Non-text portions of this message have been removed]

4736. Re: [DrakeRadio] MN4 Tuner, again (sorry)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-18 03:38:16 UTC
From: Paul Kraemer
Topic: 4734 Message: 4736

Bill
What is the length of coax between the ladder line and tuner? It does make a difference.
Assuming you are using coax with a 1:1 current choke between the ladder and the coax? If you are trying to hook the ladder to the tuner even if it is a balanced line tuner it doesn't work so pretty good.
Paul K0UYA

----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, December 17, 2010 9:03 PM
Subject: [DrakeRadio] MN4 Tuner, again (sorry)

> OK, I got my G5RV up to about 40 feet flat, cut the ladderline down to 34
> feet, and my MN4 refuses to get a decent match. Tried the ladderline at
> 31 feet: no dice.
>
> With the MN4, there's an 80A and 80B. I can get it down below 2 on the
> "B" side, fugedaboudit on the A side. Still, the impedance match is
> probably appalling if I checked the SWR.
>
> I'm starting to wonder if it might be something in the MN4. No problem
> getting it to match on 40, 20, and 15. Is it possible the fixed caps for
> the 80 meter positions have gone south on the unit or something like that?
>
> I hate antenna tuning problems. Reminds me why I gave up ham radio 40
> years ago.
>
> Bill in Pasadena, NK6Q
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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4737. No receive audio on TR-4cW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-18 23:29:15 UTC
From: Noodle10536
Topic: 4737 Message: 4737

I have no receive audio on my TR-4Cw after repairing a short in the T2 coil where the capacitor legs pass the chassis. I found a good used T2 coil, replaced it, re-connected everything put it all back together. When the T2 coil shorted it cooked the R2 resistor which I also replaced. There was one other capacitor, C136, in the board 5 that had only one leg attached. I fixed it and replaced the mic socket back to the original .204 socket. Now....no receive audio. I get very little noise out of the speaker and the noises seem to change a bit after different power on - off cycles. About the only thing that will create any noise is by turning the RF tune control. I tried tx quickly and that seemed positive. Anyone have any suggestions? Thanks, Peter.

4738. 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 11:31:27 UTC
From: Victor
Topic: 4738 Message: 4738

Probably been discussed before but is there a valid and cheaper sub for the 12AX7? The prices here are getting beyond a joke - $45 upwards for a single tube.
Also re the G5RV, my MN4 tunes up fb but I only use 29' 6" ladder line fed with 50 ohm co-ax via a balun to the ladder line. I have tried this on both full and half (14' 9" ladder line) 5RV's and all OK except 15m which is a bit sharp
Vic
G4JSS

4739. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 14:56:35 UTC
From: Richard Hanna
Topic: 4738 Message: 4739

Victor, You might try thetubedepot
http://www.tubedepot.com/12ax7.html
They have the sovtek for $8.95, which seems to be the lowest price I can find. The page shows others. Amazing what the guitar amps have done to tube prices...almost makes me wonder if some of the old manufacturers need to get back in the vacuum tube business!

73

Dick Hanna, K3VYY

--- On Mon, 12/20/10, Victor <g4jss@...> wrote:

From: Victor <g4jss@tiscali.co.uk>
Subject: [DrakeRadio] 12ax7
To: DrakeRadio@yahoogroups.com
Date: Monday, December 20, 2010, 6:31 AM

Probably been discussed before but is there a valid and cheaper sub for the 12AX7? The prices here are getting beyond a joke - $45 upwards for a single tube.

Also re the G5RV, my MN4 tunes up fb but I only use 29' 6" ladder line fed with 50 ohm co-ax via a balun to the ladder line. I have tried this on both full and half (14' 9" ladder line) 5RV's and all OK except 15m which is a bit sharp

Vic

G4JSS

[Non-text portions of this message have been removed]

4740. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 16:20:17 UTC
From: g4jss@tiscali.co.uk
Topic: 4738 Message: 4740

Hello Richard
Thank you and will give that a try. You are spot on with your observations about guitar amps. Every item I have seen advertising them has
been for amps to ' restore that wonderful tube tone ' Ain't really bothered about tone just want to get my T-4XC fired up!!
And to you all, have a good Christmas and hopefully a better New year.
&3
Vic
G4JSS

4741. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 18:13:49 UTC
From: William Houghton
Topic: 4738 Message: 4741

My understanding is that the 12AT7 is pin compatible but has a lower gm spec (i.e- lower gain). If the tube mfgrs made tubes they way semiconductor companies test ICs, chances are the 12AX7 and 12AT7 are the same tube and are 'sorted" at final test on the production line and then marked.

I'm sure I have used 12AT7's in my Drake gear.

Bill

From: "g4jss@..." <g4jss@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, December 20, 2010 8:20:17 AM
Subject: Re: [DrakeRadio] 12ax7

Hello Richard
Thank you and will give that a try. You are spot on with your observations about guitar amps. Every item I have seen advertising them has

been for amps to ' restore that wonderful tube tone ' Ain't really bothered about tone just want to get my T-4XC fired up!!
And to you all, have a good Christmas and hopefully a better New year.
&3
Vic
G4JSS

[Non-text portions of this message have been removed]

4742. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 18:33:33 UTC
From: Bob Macklin
Topic: 4738 Message: 4742

That's a false assumption. The 12AX7, 12AT7, and 12AU7 all share the same base.

BUT THEY ARE ALL PHYICALY DIFFERENT INTERNALLY.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 20, 2010 10:13 AM
Subject: Re: [DrakeRadio] 12ax7

My understanding is that the 12AT7 is pin compatible but has a lower gm spec (i.e- lower gain). If the tube mfgrs made tubes they way semiconductor companies test ICs, chances are the 12AX7 and 12AT7 are the same tube and are 'sorted" at final test on the production line and then marked.

I'm sure I have used 12AT7's in my Drake gear.

Bill

From: "g4jss@..." <g4jss@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, December 20, 2010 8:20:17 AM
Subject: Re: [DrakeRadio] 12ax7

Hello Richard
Thank you and will give that a try. You are spot on with your observations about guitar amps. Every item I have seen advertising them has

been for amps to ' restore that wonderful tube tone ' Ain't really bothered about tone just want to get my T-4XC fired up!!
And to you all, have a good Christmas and hopefully a better New year.
&3
Vic
G4JSS

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4743. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 19:42:45 UTC
From: Kris Merschrod
Topic: 4738 Message: 4743

The whole " tone" issues came to mind months ago as I, too, was looking at 12ax7s. I went for a reasonable price, but I could not help thinking, " could it all sound better on the air with one of those Amp tubes?" I forget which site it was, but the tubes were described like so many types and grades of strings for a cello.

Has anyone tested them for difference? Given $1,000 for Christmas I'd buy the whole line and give it a try - then again how do I do those " A" " B" tests on the air and keep pulling tubes and inserting them while hot?

Have a Merry Merry and a Happy Happy,

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

4744. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 20:21:52 UTC
From: LEE BAHR
Topic: 4738 Message: 4744

I pray results of 12AX7 "tone"don't show up on this list. Has ham radio come to this? This isn't April Fools Day, is it?

Lee, w0vt

[Non-text portions of this message have been removed]

4745. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 20:37:35 UTC
From: Richard Knoppow
Topic: 4738 Message: 4745

----- Original Message -----
From: "Kris Merschrod" <kris@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, December 20, 2010 11:42 AM
Subject: Re: [DrakeRadio] 12ax7 and " Tube Tone"

> The whole " tone" issues came to mind months ago as I,
> too, was looking at 12ax7s. I went for a reasonable
> price, but I could not help thinking, " could it all sound
> better on the air with one of those Amp tubes?" I
> forget which site it was, but the tubes were described
> like so many types and grades of strings for a cello.
>
> Has anyone tested them for difference? Given $1,000 for
> Christmas I'd buy the whole line and give it a try - then
> again how do I do those " A" " B" tests on the air and
> keep pulling tubes and inserting them while hot?
>
> Have a Merry Merry and a Happy Happy,
>
>
> Kris KM2KM
>
> Merschrod
> 123 Warren Road
> Ithaca, NY 14850
> www.merschrod.net

I mis-spent a lot of my life in professional audio.
Perhaps I am a heretic but I think in the main the idea that
tubes sound different than solid state stuff is due to the
generally poorer performance of most tube amplifiers. Tubes
themselves are not the difference but the need for
relatively high impedance matching transformers and the wide
use of single-ended power amps without any feedback results
in quite high distortion especially even harmonic
distortion. Perhaps, that, and the gradual overload
characteristic of non-feedback amplifiers is what the
musical instrument people want. Most tube radio receivers
use single ended pentode power amps to drive the
loudspeaker. These typically have on the order of five to
ten percent total harmonic distortion at rated power output
and gobs of intermodulation distortion too. Usually noisy
signals are easier to decipher when amplified by a low
distortion amplfier because the noise also produces

harmonics and, especially, intermodulation products. While a narrow band filter on the output can limit the harmonics it does nothing for IM.
The 12AX7, 12AU7, 12AT7, 12AY7, are all similar in that they are dual triodes with the same external envelope and base connections but the similarity stops there. the AX7 has an amplificatioin factor (mu) of 100, the AU7 of 20. They are intended for different purposes. The 12AY7 is similar to the 12AX7 but with a slightly lower mu and is a low noise and hum tube designed especially for low level audio use. The 12AT7 is a medium mu tube mostly used for RF purposes although its sometimes used for audio circuits. The general characteristics of the AX7 are similar to the octal base 6SL7 and the AU7 to the 6SN7 although the interelectrode capacitances are higher because of the larger elements and base. While circuits for one tube will often work with another plugged in they will not work correctly.
There are military and industrial type numbers for all (though I am not sure of the 12AY7). These are either identical to the commercial version or close enough not to make any practical difference. There are also European/British equivalent types that are again either identical or very close. Some have modified internal structure, mostly to reduce heater induced hum or microphonics.
IMO the only tube amp I ever heard that held up to modern solid state amps was the MacIntosh. I will add that some _early_ SS stuff was just awful and probably is the reason SS amps have a bad reputation to this day. Also, I suppose some people _like_ distortion.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4746. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-20 20:42:09 UTC
From: Richard Knoppow
Topic: 4738 Message: 4746

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, December 20, 2010 12:21 PM
Subject: Re: [DrakeRadio] 12ax7 and " Tube Tone"

>I pray results of 12AX7 "tone"don't show up on this list.
>Has ham radio come to this? This isn't April Fools Day, is
>it?
>
> Lee, w0vt
>

Considering what some hams do with the digital equalizer
settings on their transmitters I would not be surprized.
Despite the very narrow band transmitted by modern equipment
its still possible to screw up the audio royally.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4747. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 04:15:58 UTC
From: marc k
Topic: 4747 Message: 4747

well, at least under some circumstances, some distortion *IS*
desirable-some electric Guitar players like it-and they like the way
tubes do it better than SS.
The basic issue seems to be that tube amps when pushed, mostly give
even-order distortion, while SS amps tend more towards odd-order
distortion(or maybe it's the other 'way around(I'm kinda "under the
weather" today.
The above is one the reasons NEW 6L6 tubes are STILL being manufactured today!

BTW, NO way on earth will you EVER see any noticeable difference on a
piece of ham gear.

4748. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 04:32:57 UTC
From: Richard Knoppow
Topic: 4747 Message: 4748

```
----- Original Message -----
From: "marc k" <techmarc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, December 20, 2010 8:15 PM
Subject: Re: [DrakeRadio] 12ax7 and " Tube Tone"

> well, at least under some circumstances, some distortion
> *IS*
> desirable-some electric Guitar players like it-and they
> like the way
> tubes do it better than SS.
> The basic issue seems to be that tube amps when pushed,
> mostly give
> even-order distortion, while SS amps tend more towards
> odd-order
> distortion(or maybe it's the other 'way around(I'm kinda
> "under the
> weather" today.
> The above is one the reasons NEW 6L6 tubes are STILL being
> manufactured today!
>
> BTW, NO way on earth will you EVER see any noticeable
> difference on a
> piece of ham gear.
>
Single ended tube amps have both even and odd order
harmonic distortion. Push-pull amps, if ballanced properly,
have only odd order distortion. The ear hears even order
harmonics as being consonant and odd order ones as being
dissonant. Generally odd order distortion products are lower
in level than even order ones. The class of operation of the
amplifier also affects the distortion products and there is
a difference between triode and pentode amps. Also, the
almost inevitable transformer in a vacuum tube amp
contributes to the distortion and can add some inharmonic
distortion if not well designed. Transformers that have
unbalanced DC in the windings, as is the case with most
simple single-ended amps, have some core saturation which
also contributes to distortion. To sound really good a tube
amp needs very careful design and the transformers are not
easy to make. Both Frank McIntosh and Herbert Keros (sp?)
had patents on transformer winding methods which attempted
to improve the conditions. This is not just the so-called
ultra linear circuit of Keros but a method of bifiliar
winding. McIntosh also had a unique winding method to
```

improve coupling without also increasing parasitic capacitances so that he could use Class-B without generating switching transients. Even McIntosh went to Class AB in later amps. Solid state amps do not, in general, need transformers for impedance matching so are free of whatever distortion they introduce. They have a set of vices all their own which can be just as bad as anything a tube amp does.
For musical instrument use the amplifier adds to the sound of the generator, whatever it is, in the instrument. Some types of harmonic distortion may be desirable, and, in fact, intermodulation distortion too. When it comes to this application all the rules of the purist are out of court.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4749. Re: [DrakeRadio] 12ax7 and " Tube Tone"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 05:11:02 UTC
From: phbjr@aol.com
Topic: 4747 Message: 4749

In a message dated 12/20/2010 11:33:46 P.M. Eastern Standard Time,
1oldlens1@... writes:

>> Push-pull amps, if ballanced properly, have only odd order distortion.

Not totally true. While a properly-balanced push-pull stage will
effectively cancel the even-order products generated IN THAT STAGE, they will
NOT cancel even-order products generated in PRECEDING stages but will pass
them straight through, so the output will be PREDOMINENTLY odd-order
products with some even-order products that were generated in previous stages.

For thorough discussions & explanations of just about everything
related to audio amplifier design go to the following web site and see the "Tech
Info" section. There is even discussion about swapping 12AU7/12AX7/12AT7
tubes and what the effect will be if the tube is changed but not re-biased
and/or Ep remains the same.

http://www.aikenamps.com/ (http://www.aikenamps.com/)

Since I operate 99% CW "tone quality" is a pretty much a non-issue for
me.....I'd copy 750 Hz rotary spark and probably not complain (much) if
that was what was being used, although I probably *WOULD* complain about
fixed spark with, say, a 120 Hz interrupter.....it sounds like sh** and would
be hard to copy through much QRN.....

73 DE K4MSG

[Non-text portions of this message have been removed]

4750. 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 08:52:26 UTC
From: Victor
Topic: 4738 Message: 4750

Beginning to wish I'd never started this. My only interest was getting my T-4XC fired up not a guitar amp and its tonal attributes!!
Vic

4751. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 09:26:15 UTC
From: Joe
Topic: 4738 Message: 4751

Hi Vic!

I suspect the tonal attributes part of the tube discussion will fade away fairly quickly.

If you need more clarification on your tube need(s), feel free to ask again.

Yes, this IS the Drake group, but sometimes we wander a bit and go a bit off topic, but several people DID find the excursion interesting, so....

Bear with us....we will be back 100% Drake again very soon!

Hint, HINT, gang!

I want to take this opportunity to wish everyone a very Merry Christmas and Chanukah. May you find peace and love, no matter where you live, and find food on the table, and good health in your home.

Joe Wolfe
WA6RKN
Moderator

----- Original Message -----
From: "Victor" <g4jss@...>
Subject: [DrakeRadio] 12ax7

> Beginning to wish I'd never started this. My only interest was getting my
> T-4XC fired up not a guitar amp and its tonal attributes!!

4752. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 14:41:28 UTC
From: Richard Knoppow
Topic: 4738 Message: 4752

----- Original Message -----
From: "Victor" <g4jss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, December 21, 2010 12:52 AM
Subject: [DrakeRadio] 12ax7

> Beginning to wish I'd never started this. My only interest
> was getting my T-4XC fired up not a guitar amp and its
> tonal attributes!!
> Vic
>
FWIW here is a list of tubes that is similar or
identical to the 12AX7
12AX7A (controlled heater warmup)
7025 (low noise)
7058 (14V heater)
6057
ECC 83
7729
6681
6881
12DT7
12DM7
12DF7
5751 (five star ruggedized type with u of 70 instead of 100)

Some may be available cheaper than the 12AX7. The really
high priced ones seem to those with the Telefunken brand.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4753. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 16:03:04 UTC
From: Jerry Harley
Topic: 4738 Message: 4753

On 12/21/2010 9:41 AM, Richard Knoppow wrote:
>
>
> ----- Original Message -----
> From: "Victor" <g4jss@... <mailto:g4jss%40tiscali.co.uk>>
> To: <DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>>
> Sent: Tuesday, December 21, 2010 12:52 AM
> Subject: [DrakeRadio] 12ax7
>
> > Beginning to wish I'd never started this. My only interest
> > was getting my T-4XC fired up not a guitar amp and its
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> >
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> identical to the 12AX7
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> 7025 (low noise)
> 7058 (14V heater)
> 6057
> ECC 83
> 7729
> 6681
> 6881
> 12DT7
> 12DM7
> 12DF7
> 5751 (five star ruggedized type with u of 70 instead of 100)
>
> Some may be available cheaper than the 12AX7. The really
> high priced ones seem to those with the Telefunken brand.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@... <mailto:dickburk%40ix.netcom.com>
>
>
WHO CARES

[Non-text portions of this message have been removed]

4754. Re: [DrakeRadio] 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-21 16:15:14 UTC
From: Joe
Topic: 4738 Message: 4754

OK, That does it.....

We don't need that type of attitude here. I believe Vic's original question has been answered nicely.

So....

This topic is closed.

Joe Wolfe
WA6RKN
Moderator

----- Original Message -----
From: "Jerry Harley" <wa2tti@...>
Subject: Re: [DrakeRadio] 12ax7

> WHO CARES

4755. TR4C carrier problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-22 15:42:44 UTC
From: Dick KF4NS
Topic: 4755 Message: 4755

Hi Guys,
I just had my first lengthy QSO on 20M SSB since the restoration. A problem has popped up that was not an apparent trouble while doing all the testing on the bench.

After about a full minute of transmission the wattmeter starts showing a gradual climbing of carrier on the SSB signal. I have very good air flow, carrier balance was set during rehab, the finals were neutralized. Power output is over 200W with plate current reading around 500ma.

This does sound like a heat problem but as I said, there is plenty of air flow in and out of the rig. I have not tried lowering the output yet to see what that does but just wanted to put this to the groups ASAP before I do any damage. I know that one of the filters is bad but the 9mhz OSC. was tweaked with C130 to a satisfactory balance which left the CXR OSC still very close to 9MHZ. Let me know your thoughts.

73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

4756. looking for assessoaries plug for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-22 18:20:12 UTC
From: Hans-Joachim Empel
Topic: 4756 Message: 4756

Hello to the group ,

i am looking for a accessoaries plug for the TR-7.

i tooked the AUX - 7 board in with the VLF / LF frequencies.

i will connect my special VLF / LF antenne (active antenna) to the TR-7.

if anybody has an idear how to buy this plug , please let me kow.

Regards from Germany

Joachim

DL2388RB (Member of the ARRL)

[Non-text portions of this message have been removed]

4757. L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 15:24:05 UTC
From: BVKENE
Topic: 4757 Message: 4757

Hi
I just picked up a L4B and am wondering if I need to have an isolation relay, (i.e. Ameritron ARB-7021) between the IC 746 PRO and the L4B?
Thanks
Ken W0LSD

4758. Re: [DrakeRadio] L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 15:53:04 UTC
From: Jim Chaggaris
Topic: 4757 Message: 4758

Yes, it definitely will.

Jim N9WW

BVKENE <diverken@chaffee.net> wrote:

>Hi
>I just picked up a L4B and am wondering if I need to have an isolation relay, (i.e. Ameritron ARB-7021) between the IC 746 PRO and the L4B?
>Thanks
>Ken W0LSD
>

4759. Re: [DrakeRadio] L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 16:11:31 UTC
From: amfone
Topic: 4757 Message: 4759

Yes you do.... if not you will damage the Icom.

Tim

From: BVKENE <diverken@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, December 23, 2010 10:24:05 AM
Subject: [DrakeRadio] L4B and IC 746PRO

Hi
I just picked up a L4B and am wondering if I need to have an isolation relay,
(i.e. Ameritron ARB-7021) between the IC 746 PRO and the L4B?
Thanks
Ken W0LSD

[Non-text portions of this message have been removed]

4760. Re: [DrakeRadio] L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 18:01:31 UTC
From: Ken Eigsti
Topic: 4757 Message: 4760

RE: Isolation with L4B and IC 746pro.

Thanks for all the responses. Consensus says one definitely needs isolation between the amp and radio.

Thanks again and Merry Christmas to all.

73 Ken W0LSD

[Non-text portions of this message have been removed]

4761. Re: L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 23:16:35 UTC
From: Ralph
Topic: 4757 Message: 4761

--- In DrakeRadio@yahoogroups.com, Ken Eigsti <diverken@...> wrote:
>
> RE: Isolation with L4B and IC 746pro.
>
> Thanks for all the responses. Consensus says one definitely needs
> isolation between the amp and radio.
>
> Thanks again and Merry Christmas to all.
>
> 73 Ken W0LSD
>
>

I am using that combination. Something is needed between the two. The internal realy of the Icom will not stand up to the high voltage/current the Drake uses to activate the relay. I just used an external 12 volt relay between the Icom and the Drake. It is one that uses a low voltage coil and contacts that can handle the voltage of the Drake.

YOu can also use the 'soft key' from Harbach. If you have not replaced the high voltage capacitors, I would recommend looking into that. Harbach also makes a replacement board and capacitors for that.
I did install that capacitor modification in one I bought about 2 years ago. The capacitors with the leads comming out the ends seem to be difficult to come by at that voltage rating. If you do get anything from Harbach, I think I would spend a couple of more dollars and get several of the 'special' resistors for the high voltage supply that are designed to act as a fuse incase of a tube short.

http://www.harbachelectronics.com/main/page_home.html

4762. Re: [DrakeRadio] Re: L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-23 23:41:20 UTC
From: Ken Eigsti
Topic: 4757 Message: 4762

GE
Thanks Ralph.. good information. I have an Ameritron ARB 704, isolation
relay designed for this, so I think I will use it. Will check into Harbach
too. Thanks so much and have a Merry Christmas.
73 Ken

On Thu, Dec 23, 2010 at 4:16 PM, Ralph <ku4pt@...> wrote:

>
>
>
>
> --- In DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>, Ken
> Eigsti <diverken@...> wrote:
> >
> > RE: Isolation with L4B and IC 746pro.
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> between the Icom and the Drake. It is one that uses a low voltage coil and
> contacts that can handle the voltage of the Drake.
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> YOu can also use the 'soft key' from Harbach. If you have not replaced the
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> to come by at that voltage rating. If you do get anything from Harbach, I
> think I would spend a couple of more dollars and get several of the
> 'special' resistors for the high voltage supply that are designed to act as
> a fuse incase of a tube short.
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> http://www.harbachelectronics.com/main/page_home.html
>
>

>

[Non-text portions of this message have been removed]

4763. Re: L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-25 20:07:31 UTC
From: n2mu_1
Topic: 4757 Message: 4763

Ken,

I'm late to the post here but...

As redundantly stated, you will definitely need a buffer circuit for keying up an L4B and if you already have an ARB-704 you should wire it appropriately to 746Pro DIN connector to save a tiny bit of timing delay and it can be powered by the 746Pro 13v DIN pin line too. Alternatively, you do not need to buy an amp buffer for the L4B if you have access to a couple of parts and the desire to make your own. There are many simple ways to do it and here is one idea. The L4B has about 28 volts on the relay which is grounded at about 30ma when keying up the amp. If you take an RCA jack and mount a TO220 Case style PNP transistor of appropriate rating and a gain of 40 or more with the collector tab soldiered directly to the outer shell of the RCA jack, the emitter soldiered to a wire fed over to the L4B amp key pin, and the transistor base in series with a 1K resistor to the center pin of the RCA jack you have your buffer with a total of 3 parts and a piece of wire to the amp. This will limit the current on the 746 Pro relay to less than 1ma on the contacts providing plenty of isolation.

However, this is not the primary issue you should be asking about when mating an L4B to an Icom746Pro; 756Prox... The L4B has slow and inconsistent relay operation when activated for transmit and you will certainly hot switch the amp with a 746Pro so break-in keying and VOX operation is likely to ultimately cause a problem with the rig and/or the amp. This problem can be verified by watching the SWR meter spike on the 746Pro when transmitting a CW note with the amp activated, in semi or full break-in or applying sound to the mic to activate in SSB VOX mode. The 746Pro keying RF output delay is about 10-12ms and the Pro's tiny relay within it adds about 220 microseconds (negligible) over the solid state transmit keying from the DIN connector. I never measured the L4B relay timing but I have 3 of them and they are consistently slower than the Icom's RF activation time. My guess is that they need about 15-20ms to stabilize the transmit transfer before applying RF. So my suggestion is to only use the L4B with manual Push to Talk for SSB and keep quiet until after you push the Mic button...

I have had mixed results with a "relay supercharging circuit" remedy for semi break-in that shortens the L4B transmit relay transfer time, such as the circuit from K6XX at

http://members.cruzio.com/~k6xx/radio/fastrelay.html

but it also slows the return to receive time as well. This can be applied to the RCA output amp side of the ARB-704. If you try this circuit the capacitor should be changed to about 5uf and the best capacitor value will depend on the gain of the transistor that you use. I used an MPSA42 transistor for this type of "supercharging relay circuit" with a different buffer circuit and it worked reasonably well.

You can also block the ALC line for added 746Pro xmit RF delay but that is another issue with mixed and limited results useful for Push to Talk and VOX SSB but generally not useful for fast CW operation. The problem here is that Icom doesn't provide inhibit transmit line or a choice of RF output delay upon transmit...

Hope this helps... What Say? 73

Hank N2MU ...-.- ..

--- In DrakeRadio@yahoogroups.com, Ken Eigsti <diverken@...> wrote:
>
> GE
> Thanks Ralph.. good information. I have an Ameritron ARB 704, isolation
> relay designed for this, so I think I will use it. Will check into Harbach
> too. Thanks so much and have a Merry Christmas.
> 73 Ken
>
> On Thu, Dec 23, 2010 at 4:16 PM, Ralph <ku4pt@...> wrote:
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> >
> > --- In DrakeRadio@yahoogroups.com <DrakeRadio%40yahoogroups.com>, Ken
> > Eigsti <diverken@> wrote:
> > >
> > > RE: Isolation with L4B and IC 746pro.
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> > > Thanks again and Merry Christmas to all.
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> > a fuse incase of a tube short.
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> >
> >

>
>
> [Non-text portions of this message have been removed]
>

4764. Re: L4B and IC 746PRO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-25 20:23:12 UTC
From: n2mu_1
Topic: 4757 Message: 4764

Ken,

Link mistake - Please Amend the link below in my post to

http://members.cruzio.com/~k6xx/radio/fastrely.html

73 and Merry Christmas to all..
Hank N2MU ...-.- ..

--- In DrakeRadio@yahoogroups.com, "n2mu_1" <hmlong@...> wrote:
>
> Ken,
>
> I'm late to the post here but...
>
> As redundantly stated, you will definitely need a buffer circuit for keying up an L4B and if you already have an ARB-704 you should wire it appropriately to 746Pro DIN connector to save a tiny bit of timing delay and it can be powered by the 746Pro 13v DIN pin line too. Alternatively, you do not need to buy an amp buffer for the L4B if you have access to a couple of parts and the desire to make your own. There are many simple ways to do it and here is one idea. The L4B has about 28 volts on the relay which is grounded at about 30ma when keying up the amp. If you take an RCA jack and mount a TO220 Case style PNP transistor of appropriate rating and a gain of 40 or more with the collector tab soldiered directly to the outer shell of the RCA jack, the emitter soldiered to a wire fed over to the L4B amp key pin, and the transistor base in series with a 1K resistor to the center pin of the RCA jack you have your buffer with a total of 3 parts and a piece of wire to the amp. This will limit the current on the 746 Pro relay to less than 1ma on the contacts providing plenty of isolation.
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> > > http://www.harbachelectronics.com/main/page_home.html
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> > >
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> > [Non-text portions of this message have been removed]
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>

4765. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-26 20:07:18 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4765

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

4766. Drake SP75 Speech Processor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-26 22:52:21 UTC
From: kf0hr
Topic: 4766 Message: 4766

Hi List and Merry Christmas

Hooked up my SP75 Speech Processor to my TR-7 a few weeks ago. It won't pass audio when I push on the power button? It passes the audio when the power is off. I haven't really looked at the schematic much yet.
Where does a person start on this SP75? Who repairs them?

Thanks, de KF0HR Teran in North Dakota

4767. SP75 Speech Processor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-26 23:20:16 UTC
From: kf0hr
Topic: 4767 Message: 4767

OK I opened up the SP75 and checked a few things. Looks like U4 13 volts shows 7 volts out TP-7. BFO 459 KHz is low at 300 KHz. Looks to have lots of problems or with low U4 output. Looks like TP-7 should be 9 volts. Will have to see if something is pulling U4 down or is the U4 running low? Also see the front audio green light stays on all the time?

Would like some help on what to check with this little SP75.

Thanks, de KF0HR Teran in North Dakota

4768. Re: [DrakeRadio] SP75 Speech Processor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-27 00:45:32 UTC
From: Jim Shorney
Topic: 4767 Message: 4768

On Sun, 26 Dec 2010 23:20:16 -0000, kf0hr wrote:

>OK I opened up the SP75 and checked a few things. Looks like U4 13 volts shows 7 volts out TP-7. BFO 459 KHz is low at 300 KHz. Looks to have lots of problems or with low U4 output. Looks like TP-7 should be 9 volts. Will have to see if something is pulling U4 down or is the U4 running low? Also see the front audio green light stays on all the time?

Hi Teran,

I would say that U4 is a good place to start. Two volts low could be enough to upset the operation of the entire circuit. U4 is a 7805 that is being tricked into acting like an LM317 by adding resistors. Not the cleanest solution, but it works. You should be able to measure 5 volts between the middle leg and the output leg. If not, it is either bad or something is forcing it into shutdown. C29 may be suspect. If you replace C29, also replace C28 while you are at it. Not as likely, R35 or R35 may have drifted in value. If U4 looks OK, you can start lifting one leg of each of the decoupling resistors off the +9 power rail that feed individual parts of the circuit to see if you can find what is dragging it down.

As a side note, IMO U4 is not adequately bypassed for high frequencies. The manufacturers recommend certian values of capacitors right at the legs of the device - and they do so for a reason. I don't think this is your problem, I just mention it in passing.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4769. TR4310/TR77 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-27 19:07:44 UTC
From: Craig Roberts
Topic: 4757 Message: 4769

I am about to swap my TR7's front panel for one from a TR 4310. If anyone has a 4310 (or a TR77), please tell me how the panel is attached to the chassis. I will fabricate a couple of brackets, but would like to know how the factory did it.

Many thanks,

Craig
W3CRR

4770. Mode Switch and Tuning.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-27 23:15:19 UTC
From: w3djk
Topic: 4770 Message: 4770

Hello my name is Dan and my call is w3djk. Well for christmas my parents bought me a TR-4C. The question I have is what would cause the x-cw position on the mode switch to not function properly? I works intermittinly I guess you can say. Now I noticed if I go between x-cw and x-am it will start work to perform tuning. Other times it sounds as if the relays are bouncing of chattering. Could it be a dirty switch or maybe vox or antivox settings. Any feedback will be greatly enjoyed. Thanks and 73, Dan W3DJK

4771. A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-28 10:14:58 UTC
From: ljunggren.peter
Topic: 4771 Message: 4771

Hello

Let me start by saying Thank You for accepting me as a member to this group. I'm a Swedish ham with callsign SM7ZDE, name is Peter. My first contact with Drakes was in the Swedish army around 1979, I was an cw-operator and we were allowed to use our regiments club station in the evenings and at nights. Many years later, in 2008 I finally got my license. Today I have a 4-line, R-4C, T-4XC, MS-4 and AC-4, a Kenwood TS-440 and Icom 703.

I recently bought an TR-3 in cosmetically good condition along with a set of spare tubes on the Swedish version of Ebay. The price seemed right, around 100$. I removed top and bottom covers to check it out, it looks great on the inside, clean and all original, so far so good.

I cleaned all the wafers and tube sockets and the day after I fired it up after drying out. There is quite loud hum, both USB/LSB pilot lamps are on and a weak static noise in the background but no signals, not even from the calibrator. All tubes are glowing but I don't know how good they are. I gave the the USB/LSB switch/wafer an extra cleaning but still the same.
I use the power supply from my 4-Line. This is really not a surprise to me, it's an old radio.

I would like your opinions where and what to start with to bring my TR-3 back to life, I think the capacitors (electrolyt) maybe comes first, they are original as far as I can see and many of them are of the white paper type.

I wish everybody in this group a Happy New Year in 2011.

73 de SM7ZDE //Peter

4772. Re: [DrakeRadio] A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 01:13:13 UTC
From: William Houghton
Topic: 4771 Message: 4772

Hi Peter,

Loosen and retighten all of the screws that attach ground lugs to the chassis. Often these corrode over time. This often includes the screws on the tube sockets. Many of the tube sockets have ground lugs. I had a loud hum with my TR-4C and loosening and retightening the screws for the tube socket on the 6AQ5 fixed that problem. The reason to loosen (in my opinion) is so that you can turn the screw a bit and cause the screw head to scrap a bit of the gunk off.

You probably need to get the reciver working first because part of the process for tuning the transmitter is adjusting the RF TUNE control for maximum noise/signal.

73,

Bill

From: ljunggren.peter <ljunggren.peter@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, December 28, 2010 2:14:58 AM
Subject: [DrakeRadio] A short introduction and a few questions about TR-3.

Hello

Let me start by saying Thank You for accepting me as a member to this group. I'm a Swedish ham with callsign SM7ZDE, name is Peter. My first contact with Drakes was in the Swedish army around 1979, I was an cw-operator and we were allowed to use our regiments club station in the evenings and at nights. Many years later, in 2008 I finally got my license. Today I have a 4-line, R-4C, T-4XC, MS-4 and AC-4, a Kenwood TS-440 and Icom 703.

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as far as I can see and many of them are of the white paper type.

I wish everybody in this group a Happy New Year in 2011.

73 de SM7ZDE //Peter

[Non-text portions of this message have been removed]

4773. Re: [DrakeRadio] A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 02:18:15 UTC
From: Don Cunningham
Topic: 4771 Message: 4773

Welcome to the group, Peter. I can't answer your question, but I am sure you will get several suggestions to try to fix your problem. This is a fine group of radio enthusiasts.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4774. Tuning the TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 15:50:50 UTC
From: OH1KIO
Topic: 4774 Message: 4774

Hello Group!

I am happy to have a "new" TR-4Cw, and even though I am familiar with tuning tube finals of several Yaesus, I seem to be lost on how to tune this specific Drake to 3.5MHz.

Beginning with the dummy load, I have a very poor plate current dip (=can't find any). Fortunately I can find a tip by looking at the output, a small and really sharp peak to start from. Continuing to tune up from there, I can build up 60 watts of output with 350mA input (plate at 9, load at 4.5). I checked the dummy load (Palstar) with my antenna analyzer (also Palstar), which says it's 60 ohms +-0j at 3.5MHz. Tried several times to tune the Drake with different styles, but they all ended up with same settings and that is all output I get. Bias steady at 100mA, no problem.

Then to the antenna through a tuner (MN-75). VSWR with the dummy load is very close to 1, so I assume everything should be OK. But... When I switch the TR-4 from dummy load to the antenna, which I just tuned with the MN75 and checked with the same antenna analyzer (says 55 ohms +3j) from the same connection and cables as the dummy load, the VSWR jumps to 4. My logic says that even though I just tried to tune the rig to abt.50 ohms, the true result is something different.

I repeated the above process and ended up with exactly the same result. I double checked the setup by connecting another rig (solid state, can't mess the tune-up) same way to the MN75, and it says VSWR 1 to both dummy load and antenna, everything fine.

== So I am missing something in the tune-up of the TR-4, or should I start looking into the alignment of the rig? Any experienced guesses where to look first?

Why do I bother using the tuner instead of running straight to the antenna? Well I tried that too and saw very good signal reports also on 7MHz the same time...

Wishing you all happy holidays and great 2011!

73, Markus OH1KIO

4775. Re: [DrakeRadio] Tuning the TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 16:43:45 UTC
From: Kris Merschrod
Topic: 4774 Message: 4775

Markus,

My experience with the TR-4any and any Drake T-4any is that the final tuning of the rig is to match the output to the load. So, once tuned into the Dummy load you are "almost there."

I, too, find that on the 75-80 meter band the dip is not so precipitous, but the little dip is there. I usually use the output meter on the tuner to watch the pwr out - that is easier to see (Nice meters on the MN-4s and especially on the MN-4C)

In the case where the ANT Tuner is not used, you then have to re-adjust the settings on the rig for a final match to the antenna. I believe that the Drake tuning is technically a "Pi-Net" and aside from resonance for the frequency you are matching the rig to the impedence of the the dummy load or the antenna. Using and inline wattmeter for max out and SWR is helpful.

When a tuner is used I still find that a bit of fine tuning of the rig is sometimes needed although you would think that it should not be needed.

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

4776. Re: [DrakeRadio] Tuning the TR-4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 17:38:55 UTC
From: Garey Barrell
Topic: 4774 Message: 4776

Markus -

Just about all of the Drake 4 Series transmitters are 'on the edge' when tuning to the bottom end of 80M. They just don't have enough capacitance on the output end of the PiNet, resulting in a poor plate current dip into a 50 ohm load. They need another couple hundred pF, depending upon your antenna impedance. I believe the problem is that there just isn't enough delta-c in the loading cap to hit the high end of the band if there is enough fixed capacitance to cover the low end. Easiest fix is to just add some capacitance across the output connector to get all the way to the bottom of the band. It may be possible to find just the right value to still allow you to hit 3995 if you use both, but I suspect you'll have to switch it out to cover the entire band.

73, Garey - K4OAH
St Charles, IL
Drake Service Supplement CDs for
2-B, 2-C/NT, A, B and C-Line,
TR-4 and TR-4C

OH1KIO wrote:
> Hello Group!
>
> I am happy to have a "new" TR-4Cw, and even though I am familiar with
> tuning tube finals of several Yaesus, I seem to be lost on how to tune
> this specific Drake to 3.5MHz.
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> output, a small and really sharp peak to start from. Continuing to
> tune up from there, I can build up 60 watts of output with 350mA input
> (plate at 9, load at 4.5). I checked the dummy load (Palstar) with my
> antenna analyzer (also Palstar), which says it's 60 ohms +-0j at
> 3.5MHz. Tried several times to tune the Drake with different styles,
> but they all ended up with same settings and that is all output I get.
> Bias steady at 100mA, no problem.
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> Then to the antenna through a tuner (MN-75). VSWR with the dummy load
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> rig to abt.50 ohms, the true result is something different.
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> 1 to both dummy load and antenna, everything fine.
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> where to look first?
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> Why do I bother using the tuner instead of running straight to the
> antenna? Well I tried that too and saw very good signal reports also
> on 7MHz the same time...
>
> Wishing you all happy holidays and great 2011!
>
> 73, Markus OH1KIO
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

4777. digital displays tr7 & r7.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 18:50:08 UTC
From: w1fued@sbcglobal.net
Topic: 4777 Message: 4777

Can someone help with digital display questions?

I have a tr7 that is missing bottom segments on all digits, and an r7 missing the middle segment in one digit (10kc digit)

If one digit is missing a segment or Weak is it the segment or the driver?

If a group of 2 or 3 digits is missing multiple segments, say the bottom segments, is it the digits or the drivers?
Any help as to when the problem is the driver or digit itself?

I have a good display board and it works when the digitial display is moved between radios.

Any help would be appreciated.

Ed
W1FU

4778. dds vfo for tr7 Band information?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-29 19:39:20 UTC
From: w1fued@sbcglobal.net
Topic: 4778 Message: 4778

I have built a dds vfo from n3zi kits, its really come in handy as a signal generator more than anything else, so far.

I have an old beat up rv-7 vfo thru which I sent the dds vfo signal into the tr7. It works great and has great possibilities, but am still using the digital display on the radio. I really dont use the display on the dds vfo except for initial setting of freq. Using the dds vfo "blind" as the rv-7 does.

Since this vfo has memories (which includes if offsets, I can program the ham freq to read out on the display, but each time changing memories for band changes. I realize this would not be actual freq. display, but merely a "calculated" freq. which might be good enough.

How does the band switch send info to the display? I am looking for a qick and easy way to try this, possibly even doing with 12v to small relays if the band switch supplies some voltage for each band switch setting.
Any thoughts?

Thanks,
W1FU

4779. Re: [DrakeRadio] A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 03:56:12 UTC
From: AA8W
Topic: 4771 Message: 4779

Hi Peter,

Welcome aboard.
If your TR-3 was used with an RV-3 then a jumper wire was cut between pins 2 and 8 of the RV-3 jack (J2) on the bottom of the rig. That will disable it.

73,
Mike AA8W

From: ljunggren.peter
Sent: Tuesday, December 28, 2010 5:14 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] A short introduction and a few questions about TR-3.

Hello

Let me start by saying Thank You for accepting me as a member to this group. I'm a Swedish ham with callsign SM7ZDE, name is Peter. My first contact with Drakes was in the Swedish army around 1979, I was an cw-operator and we were allowed to use our regiments club station in the evenings and at nights. Many years later, in 2008 I finally got my license. Today I have a 4-line, R-4C, T-4XC, MS-4 and AC-4, a Kenwood TS-440 and Icom 703.

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I cleaned all the wafers and tube sockets and the day after I fired it up after drying out. There is quite loud hum, both USB/LSB pilot lamps are on and a weak static noise in the background but no signals, not even from the calibrator. All tubes are glowing but I don't know how good they are. I gave the the USB/LSB switch/wafer an extra cleaning but still the same.
I use the power supply from my 4-Line. This is really not a surprise to me, it's an old radio.

I would like your opinions where and what to start with to bring my TR-3 back to life, I think the capacitors (electrolyt) maybe comes first, they are original as far as I can see and many of them are of the white paper type.

I wish everybody in this group a Happy New Year in 2011.

73 de SM7ZDE //Peter

[Non-text portions of this message have been removed]

4780. Re: [DrakeRadio] digital displays tr7 & r7.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 04:17:24 UTC
From: Jim Shorney
Topic: 4777 Message: 4780

On Wed, 29 Dec 2010 18:50:08 -0000, w1fued@... wrote:

>I have a tr7 that is missing bottom segments on all digits, and an r7 missing the middle segment in one digit (10kc digit)
>
>If one digit is missing a segment or Weak is it the segment or the driver?
>
>If a group of 2 or 3 digits is missing multiple segments, say the bottom segments, is it the digits or the drivers?
>Any help as to when the problem is the driver or digit itself?

One digit missing a segment is a problem with that display segment. More than one digit that has a problem with the same segment is a driver or connection problem. I would look at the soldering on the DR-7 first.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4781. Re: [DrakeRadio] dds vfo for tr7 Band information?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 04:50:45 UTC
From: Jim Shorney
Topic: 4778 Message: 4781

On Wed, 29 Dec 2010 19:39:20 -0000, w1fued@... wrote:

>How does the band switch send info to the display? I am looking for a qick and easy way to try this, possibly even doing with 12v to small relays if the band switch supplies some voltage for each band switch setting.
>Any thoughts?

The TR-7 service manual describes it pretty well. The band switch provides a binary divide-by-N preload value to the digital control board that sets the band segment. This number is further manipulated by the UP/DOWN pushbuttons and the DR-7 logic to provide the 500 KHz segments within each band segment. To do what you want to do it looks like you would need to decode the output of U9005/U9006, the programmable up/down counters on the DR-7 (remeber that you are still limited to 500 KHz travel at the PTO freqency).

You will want to read section 1-3.3 and section 4 (the DR-7 addendum) in the service manual to get the picture. There is also some logic to stop the UP/DOWN progression when you reach the edge of a band segment, you could probably bring this out as well to light a big red light to prompt you when you need to change the bandswitch. You still have to deal with the 500 KHz PTO travel, though.

The fun way do do it would be to have the DDS provide the divide-by-N number to the synthesizer. No more UP/DOWN pushing on the radio if the DDS can increment/decrement the N count and roll the PTO frequency back to the other end automatically.

Or, maybe you could just replace the 48.05-78.05 MHz VCO signal entirely with the DDS, if it will go that high. The VCO is phase-locked to the PTO, and it would actually be a simplification of the design to do it all with the DDS (and would probably reduce phase noise in the bargain). The DR-7 could still function as a frequency display, as that part of it is just a frequency counter reading the VCO-1st IF frequecy.

You still need the mechanical banswitch for switching the filter octaves and doing some high-end poodle-faking with the ALC circuit.

I hope this makes sense to you, I'm just winging it here...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://radiojim.exofire.net
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4782. Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 08:27:13 UTC
From: ljunggren.peter
Topic: 4771 Message: 4782

Hi
Thanks for answers, Bill, Don and Mike.

I have retightened the screws for ground lugs and tube sockets now and the jumper on the RV-3 jack between pin 2 and 8 was in place already. Now I can hear the calibrator tone and even receive cw-signals but with a very, very harsh tone. When switching from upper to lower sideband the tone changes side.
Both USB/LSB lamps are still on. I wrote earlier that I've cleaned the USB/LSB switch this was not correct, what I meant was the bandswitch. Sorry!
The hum is worst on 80M and on 15M and the 3 positions on 10 the "light" inside OA2 (V20) flickers and this is audible.

73 de SM7ZDE //Peter

>

4783. Re: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 08:50:32 UTC
From: William Houghton
Topic: 4771 Message: 4783

Peter,

Here is the advice given to me by a friend when I started restoring my TR-3. He has restored several pieces of ham gear over the years (he has more than 70 tube rcvrs/xmtrs/ xcvrs):

1. Replace the two wire power cord with a 3 wire power cord. Use old pc power cords. Green or Green/Yellow goes directly to chassis. If the unit isn't fused, for example Johnson transmitters had two fuses in the plug that goes into the wall, install a fuse block and fuse in the hot line (black wire).

2. If the rig is more than 40 years old, check all the electrolytic and paper capacitors for leakage and replace any that are bad. Ceramic and mica caps usually don't go bad but there are exceptions, as in micas that have a constant DC voltage across them. The leakage test can be done with a capacitor checker (great instruments) or with a variable high voltage power supply, some resistors and an ammeter. The leakage on any capacitor except electrolytics should be very small (no more than a few uA and preferably unmeasurable). Electrolytics will have great leakage but you should never have more than 1 mA. Leakage in electrolytics is bad as it puts an unnecessary load on the power transformer. Leakage in bypass and coupling caps also puts a slightly increased load on the transformer but the real culprit is leakage into the grid of the next stage from the plate of the preceding stage. This leakage upsets the bias, causing increased plate current and fried resistors and transformers. If the unit is less than 40 years old, just check the electrolytics.

3. Check all the carbon comp resistors and replace any that are more than 10% off. Carbon comp resistors usually drift high, often as much as 200-1000%. Wirewounds don't often change but you should check them anyway.

4. Check all the tubes on a good tester and replace any that are really bad. Don't replace any that are just barely good or even on a tad to the bad side as they may work perfectly. The best tube tester is the unit itself. An actual tube tester is just to get you to first base. Clean all the tube pins and treat them and the tube sockets with a very small amount of Dexoit (www.caig.com). Same thing with the wafer switches. Don't use the spray. Use the liquid.

5. Tighten all screws, specially those that hold a solder lug that is used for ground as the connections tend to oxidize and a bad ground can be horrendous to troubleshoot.

6. Along with the above, give the unit a good cleaning, replace any open/missing lamps and inspect all the wiring for poorly done modification, solder joints, missing insulation, etc.

7. Get a Variac. Bring the rig up on a variac with a 110V 100 Watt lamp in series. If you have any major problems the lamp will light. If it doesn't, remove the lamp and bring the rig up slowly and let it sit for an hour or so.

8. At this point it will probably work but, if it's a receiver, it's likely to need an alignment.

9. If you have scratchy, intermittent potentiometers, dismantle them and clean/lube them with a product from Caig called Fader Lube.

Aren't boat anchors fun?

Bill

From: ljunggren.peter <ljunggren.peter@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, December 30, 2010 12:27:13 AM
Subject: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Hi
Thanks for answers, Bill, Don and Mike.

I have retightened the screws for ground lugs and tube sockets now and the jumper on the RV-3 jack between pin 2 and 8 was in place already. Now I can hear the calibrator tone and even receive cw-signals but with a very, very harsh tone. When switching from upper to lower sideband the tone changes side.
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this was not correct, what I meant was the bandswitch. Sorry!
The hum is worst on 80M and on 15M and the 3 positions on 10 the "light" inside OA2 (V20) flickers and this is audible.

73 de SM7ZDE //Peter

>

[Non-text portions of this message have been removed]

4784. Re: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 12:11:31 UTC
From: Richard Knoppow
Topic: 4771 Message: 4784

```
----- Original Message -----
From: "ljunggren.peter" <ljunggren.peter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, December 30, 2010 12:27 AM
Subject: [DrakeRadio] Re: A short introduction and a few
questions about TR-3.

>
>
>
>
>
> Hi
> Thanks for answers, Bill, Don and Mike.
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> I have retightened the screws for ground lugs and tube
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> cleaned the USB/LSB switch
> this was not correct, what I meant was the bandswitch.
> Sorry!
> The hum is worst on 80M and on 15M and the 3 positions on
> 10 the "light" inside
> OA2 (V20) flickers and this is audible.
>
> 73 de SM7ZDE //Peter

Check the ripple on the power supplies. An oscilloscope
is best but an AC voltmeter will do. It sounds like you have
some bad filter caps there, at least a place to start. They
will not only produce hum but also deliver the wrong DC
voltage.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

4785. Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 12:26:42 UTC
From: ljunggren.peter
Topic: 4771 Message: 4785

```
--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "ljunggren.peter" <ljunggren.peter@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, December 30, 2010 12:27 AM
> Subject: [DrakeRadio] Re: A short introduction and a few
> questions about TR-3.
>
>
> >
> >
> >
> >
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> > Hi
> > Thanks for answers, Bill, Don and Mike.
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> > Sorry!
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> > 73 de SM7ZDE //Peter
>
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> some bad filter caps there, at least a place to start. They
> will not only produce hum but also deliver the wrong DC
> voltage.
>
>
> --
```

> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

Hi Richard

I use the same AC-4 that I use for my 4-Line so it should
be ok.

73 de SM7ZDE //Peter

4786. Re: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2010-12-30 13:02:48 UTC
From: Richard Knoppow
Topic: 4771 Message: 4786

```
----- Original Message -----
From: "ljunggren.peter" <ljunggren.peter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, December 30, 2010 4:26 AM
Subject: [DrakeRadio] Re: A short introduction and a few
questions about TR-3.

>> > 73 de SM7ZDE //Peter
>>
>> Check the ripple on the power supplies. An
>> oscilloscope
>> is best but an AC voltmeter will do. It sounds like you
>> have
>> some bad filter caps there, at least a place to start.
>> They
>> will not only produce hum but also deliver the wrong DC
>> voltage.
>>
>>
>> --
>> Richard Knoppow
>> Los Angeles
>> WB6KBL
>> dickburk@...
>>
>
> Hi Richard
>
> I use the same AC-4 that I use for my 4-Line so it should
> be ok.
>
> 73 de SM7ZDE //Peter
>

Too bad, I thought I had a quick fix for you:-(
The hum has to be coming from somewhere. If not power
supply ripple then it must be a grounding problem or heater
voltage getting in somewhere. Can you tell if its at the
power line fundamental or second harmonic? That may give you
a clue. I think the AC-4 ripple is at double power line
frequency. I use mine, which has the Heathkit Shop mod in
it, on a T-4XB. It does show ripple when the transmitter is
at full output but is pretty clean at lower demand.
Another trick is to poke around the wiring with an
```

insulated stick, a plastic adjustment wand or something similar. Just wiggle wires around, that will often show up poor solder joints, split resistors and such. Someone else here, Gary likely, may be able to pinpoint the problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4787. NEW! Service Supplement CD for R-4A / T-4X

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-01 15:30:58 UTC
From: Garey Barrell
Topic: 4693 Message: 4787

I have received numerous requests for a CD covering the R-4A and T-4X.

Here is the "other" one, for the 13 tube (early) version of the R-4A!

Hopefully people have not given up, or the requests were not all from the same person, but ...

This CD is for the 13 tube version of the R-4A (s/n 2000 - 4053). The T-4X was also in a state of
flux, as I have found three distinct versions of the schematic, none dated or otherwise identified.
Of course both R-4A schematics are included, plus all three (now four) T-4X schematics.

There are 61 pages, 35 of which are in high resolution color, in the Service Manual.

The CD for the 11 tube version of the R-4A (s/n 4054 - 6999) is also available. Of course both (now
three) R-4A schematics are included, plus all three (now four) T-4X schematics.

There are 58 pages, 32 of which are in high resolution color, in the Service Manual. Along with the
Manual directory with quality scans of the C-4, L-4B, FS-4, MN-2000, W-4 and other original manuals,
there are the usual batch of miscellaneous files with field changes, modifications, troubleshooting
tips, etc.

The CD for either version (13 or 11 tube) of the R-4A is $25 delivered. Each will also include the
T-4X, and the Manual and Miscellaneous directories.

A combined version, including BOTH R-4A versions plus all T-4X data, will be $45 delivered.

All the previous CDs for the 2-B, 2-C/2-NT, B-Line, C-Line, TR-4 and TR-4C are still available too!

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4A, 4-B, C-Line &
TR-4/C Service Supplement CDs
<www.k4oah.com>

4788. another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-01 23:17:53 UTC
From: Craig Roberts
Topic: 4778 Message: 4788

I imagine a trip to Jeff's is needed on this one, but, here goes:

My backup TR 7 -- which I have converted cosmetically to a TR 4310 (front panel swap), just stopped transmitting -- sorta.

I get no output on 40 and 20 and a little on 80 with about 50 watts out on 15 and 10.

Things to know:

1) I was running SSB when it failed.

2) When I re-wired the mic connector during the front panel swap, I used a 1K resistor across pins 1 and 4 as mentioned in the literature. The original was a 470 ohm. With the 1K resistor, the mic gain was much more sensitive.

The rig was running without a fan.

What have I fried?

Thanks and 73,

Craig
W3CRR

4789. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-01 23:39:48 UTC
From: Jim Shorney
Topic: 4778 Message: 4789

On Sat, 01 Jan 2011 18:17:53 -0500, Craig Roberts wrote:

>I get no output on 40 and 20 and a little on 80 with about 50 watts out
>on 15 and 10.

I almost hate to say it, but... PIN diodes? If you have a scope or an RF probe, you can look to see where you are losing drive - PAs, drivers, predriver, excitern board, etc. I've seen leaky driver transistors cause strange things.

>2) When I re-wired the mic connector during the front panel swap, I used
>a 1K resistor across pins 1 and 4 as mentioned in the literature. The
>original was a 470 ohm. With the 1K resistor, the mic gain was much
>more sensitive.

Uh, what? I've never heard of 470 Ohm or 1K there. The references I have seen have always been 470 K Ohms. Is that what you meant, ir is this a "4310 thing"?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4790. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 00:23:08 UTC
From: Craig Roberts
Topic: 4778 Message: 4790

Ooops -- I meant 470K, not 470.

This is what lead me to make the substitution (from Ron Baker's website):
>
"The TR7 microphone connector has an internal 1000 ohm resistor between
pins #1 and #4...."

I had a TR7 earlier that had the 1K resistor vs. the 470K, so I wanted
to see what the difference was. I found out.

[Non-text portions of this message have been removed]

4791. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 00:31:20 UTC
From: Craig Roberts
Topic: 4778 Message: 4791

There was one other symptom just before the transmit failure (on 40 meters). When I keyed the mike, the display jumped from 7.200 or so (the operating frequency) to 18.250 or so but returned to normal when I unkeyed the mike.

The rig is simply a stock TR7 with its faceplate removed and one from a TR4310 substituted. Other than the mike connector resistor change, no other electrical modifications were made.

4792. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 00:59:40 UTC
From: Jim Shorney
Topic: 4778 Message: 4792

On Sat, 01 Jan 2011 19:23:08 -0500, Craig Roberts wrote:

>Ooops -- I meant 470K, not 470.

That explains that.... :) However....

>This is what lead me to make the substitution (from Ron Baker's website):
>>
>"The TR7 microphone connector has an internal 1000 ohm resistor between
>pins #1 and #4...."
>
>I had a TR7 earlier that had the 1K resistor vs. the 470K, so I wanted
>to see what the difference was. I found out.

This is still the first I have heard of the 1K. I would be interested to know where Ron go that info. The service manual does show the 470K. Also, there is an optional (by jumper) 680 Ohms to ground on whatever board it is that houses the mic amp, to match low-impedance mics. I've never actually heard of anyone using it, though. Strange...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4793. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 01:00:19 UTC
From: Bob Macklin
Topic: 4778 Message: 4793

The change of operating frequency when you key the mike is your problem. You have to find out what caused that. It sounds like one oscillator is quitting.

But I am no Drake expert.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Craig Roberts
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 01, 2011 4:31 PM
Subject: Re: [DrakeRadio] another TR7 demise - help needed

There was one other symptom just before the transmit failure (on 40 meters). When I keyed the mike, the display jumped from 7.200 or so (the operating frequency) to 18.250 or so but returned to normal when I unkeyed the mike.

The rig is simply a stock TR7 with its faceplate removed and one from a TR4310 substituted. Other than the mike connector resistor change, no other electrical modifications were made.

[Non-text portions of this message have been removed]

4794. Re: [DrakeRadio] another TR7 demise - help needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 01:01:28 UTC
From: Jim Shorney
Topic: 4778 Message: 4794

On Sat, 01 Jan 2011 19:31:20 -0500, Craig Roberts wrote:

>There was one other symptom just before the transmit failure (on 40
>meters). When I keyed the mike, the display jumped from 7.200 or so
>(the operating frequency) to 18.250 or so but returned to normal when I
>unkeyed the mike.

That sounds almost like a synthesizer unlock condition. This is starting to
sound like the odd anomalies that can happen from dirty/oxidized Molex pin
connectors. Always worth checking.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4795. How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 18:50:48 UTC
From: arsnf7z
Topic: 4795 Message: 4795

I've become far too familiar these days with the innards of the PTO on my Drake R4C. it's become an obsession truth be known. everytime I think I have found a solution, my thrill ebbs after a few hours as the dog-gone thing has drifted far out of specification.

specification as I know it to be, and if not, I have defined it as one-hour warmup, drift after warmup not to exceed 100hz. my TR4C and T4XC easily meet this, never driftying more than 100hz from power-on. my R4C drifts about 300hz the first hour, and 150hz/hour after that. the PTO continues to increase in frequency, though the deviation does decline over time.

I have replaced every component in the PTO without success. all my tests are both in the R4C and stand-alone on the bench. my observant wife asks me 'how do you know it ever worked correctly and to specification'. well, I really don't, though I cannot imagine a PTO came out of the Drake factory improperly compensated. that is, these capactiors were hand-selected and most certainly intelligently so.

my first question is to the nature of the capacitors in the tuned-circuit. there was a time when I was young, that you could pull these off the shelf and yet I now cannot remember their characteristics. they are the tubular caps, ~3/4" long and 1/8" hollow diameter. as I recall, they have special temperature coefficients, I would imagine to be positive. can someone please enlighten me?

per my wife's question, what are typical values of drift that are experienced with the R4C? the temps at the R4C PTO are far higher than in the other units where the power supply is not resident. if the PTO drifted 300hz the first hour and then stabilized, I would have no complaints. however, it doesn't stop there.

I would appreciate any observations, guestimates, at what the drift is and what might be considered normal for a tube receiver. oh, and what type of factory-selected capacitors are used?

thank you and 73's

NF7Z, daniel

4796. Re: [DrakeRadio] How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 21:44:32 UTC
From: Dan Galligan
Topic: 4795 Message: 4796

My R-4C will drift about 500 hz in the first 1.25 hours, then it stabilizes, rather nicely. I notice little or no drift on it, so long as I keep it on, and the house at a fairly constant temperature (+/- 7 degrees, ambient). This is not as good as my R-4B, which seems a bit unusual to me, but the B will do about 300 hz in the first hour, then it stabilizes quite well. Beyond that point, though, is where the C shines. It stays within nearly imperceptible margins, until I turn it off, and allow it to cool down, then back on again. The B will continue a very slow drift, maybe as much as 250-300 hz per day, with the ambient temp being kept within the mentioned margins.
Typically, I do not use the transmitter's VFO for tuning, so I have no notes on them, but now I will have to check that out, once I get my wire back in the air.
I understand that you were asking specifically about the C model, but my notes included the comparison, and thought it would be a good reference point.
Best of luck to you, and I hope someone can give you better information, than I did. But, those are my noted results, in a nutshell, over the past year and a half with the C, and 3 years with the B.
73,
Dan
W3RXO

4797. Re: How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 22:11:49 UTC
From: arsnf7z
Topic: 4795 Message: 4797

thanks for the great information Dan. ultimately, I would have to say that over the course of a day my PTO drifts ~1khz from power-on. it might continue on if I let it, though by that time I am depressed enough and turn the rig off!

for those interested, I swapped-out all the tuned-circuit capacitors for standard NPO ceramics with little effect. I even took out some of the components out of a spare RV4C PTO and used them with the same results. bypassed the zener and drove the system from a lab-grade 10.0 volt supply. no change. replaced both transistors. nada. thought I had struck gold when I noticed a half-winding on the coil that wasn't glyptol'd .. no go.

the only thing I can imagine is that the compensation doesn't feedback negative and therefore doesn't work against the drift from heating. as I mentioned, this seems unlikely coming from the factory, nor can I identify a failed component that would cause this issue.

perpelexing for sure ...

NF7Z, daniel

4798. Re: [DrakeRadio] How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 22:34:01 UTC
From: Kris Merschrod
Topic: 4795 Message: 4798

I have never kept track of the drift on the R-4, R-4C or TR-4C. 1/2 hour of warm up is about it. While in qso with a group or single OP I am always tweaking the receive on one of the other stations in QSO to be sure that I am on their frequency (using the R-4 for the control VFO).

What I keep hearing from my solid state friends, with their pan-o-graphs, etc, are comments such as "you are 10 Hz low," etc. (Is that the thickness of the red hairline? ":>)

IMHO Drakes are from a different world, and as long as they are not jumping around and off frequency (as opposed to a drift), the quest for precision where precision is not to be had is a distraction from operating.

Happy New Year to all,

Kris KM2KM
Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

4799. Re: How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-02 22:40:13 UTC
From: arsnf7z
Topic: 4795 Message: 4799

> the quest for precision where precision is not to be had is a distraction from operating.

I'll agree and in no way am I expecting modern-day synthesized performance and stability from my Drake R4C. to be clear, I am attempting to find why it is not meeting Drake's specification. that is a much different objective.

NF7Z, daniel

4800. Re: [DrakeRadio] Re: How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 01:32:57 UTC
From: amfone
Topic: 4795 Message: 4800

Daniel

Many times in older pieces of gear the drifting is actually caused by worn band-switches changing in terms of contact as they heat up. This did not occur when the switches were new but over time with aging and use this can be the result. Drake did not use very high quality switches in their gear which again over time results in this problem.

73
Tim
WB8UHZ

From: arsnf7z <ars.nf7z@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, January 2, 2011 5:11:49 PM
Subject: [DrakeRadio] Re: How much does your drake 4C-series drift?

thanks for the great information Dan. ultimately, I would have to say that over the course of a day my PTO drifts ~1khz from power-on. it might continue on if I let it, though by that time I am depressed enough and turn the rig off!

for those interested, I swapped-out all the tuned-circuit capacitors for standard NPO ceramics with little effect. I even took out some of the components out of a spare RV4C PTO and used them with the same results. bypassed the zener and drove the system from a lab-grade 10.0 volt supply. no change. replaced both transistors. nada. thought I had struck gold when I noticed a half-winding on the coil that wasn't glyptol'd .. no go.

the only thing I can imagine is that the compensation doesn't feedback negative and therefore doesn't work against the drift from heating. as I mentioned, this seems unlikely coming from the factory, nor can I identify a failed component that would cause this issue.

perpelexing for sure ...

NF7Z, daniel

[Non-text portions of this message have been removed]

4801. Re: [DrakeRadio] How much does your drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 02:09:09 UTC
From: Jim Shorney
Topic: 4795 Message: 4801

On Sun, 02 Jan 2011 17:34:01 -0500, Kris Merschrod wrote:

>What I keep hearing from my solid state friends, with their pan-o-graphs, etc, are comments such as "you are 10 Hz low," etc. (Is that the thickness of the red hairline? ":>)

My answer to them would be, "No, you're 10 Hz high!".

I laugh at these guys. I remember when you were in hog heaven if you had 5 KHz dial markings. 1 KHz on the C-line was a absolute luxury. It's all relative. And, not really related to the original question... So, it's been a while since I had the C-line on the air, but I don't recall noticing any excessive drift. FWIW.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

4802. Re: How much does your Drake 4C-series drift?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 02:39:56 UTC
From: arsnf7z
Topic: 4795 Message: 4802

Tim,

thanks for taking the time to respond. the interesting thing is that the PTO exhibits identical behaviour in the R4C, and outside it on the lab bench, so it isn't a bandswitch issue. the drift is always positive, drifting higher in frequency, and is not attributable to the 11.0 volt supply or loading, as I once thought.

here are my thoughts, having been a ham since 1961 (I just turned 60). when we were all operating AM, drift was not a huge consideration. when everyone was using equipment with inherent drift, it was accepted that a small amount of drift was normal. this generally meant the QSO migrated up or down the band as everyone attempted to follow the other.

it's perfectly fine with me to have someone mention I'm 10hz too high in a rountable QSO, but otherwise, there is no good reason that adjustments can't be made via receiver tuning or RIT to compensate for the inaccuracies of a bygone era. and frankly, I have no problem moving the tuning knob in a roundtable, net discussion.

I suppose that is why I am enjoying AM and using vacuum tube equipment once again. I am also enjoying taking a thirty-five year old radio and (attempting) bringing it to factory specifications, because I also enjoy SSTV and RTTY where one cannot have such high tolerance to instability.

73's

NF7Z, daniel

4803. TR4cw/RIT listed on QTH

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 05:07:30 UTC
From: DennisW
Topic: 4803 Message: 4803

FOR SALE: DRAKE TR4CW/RIT(mint)
FOR SALE: PRISTINE MUSEUM QUALITY DRAKE TR4CW/RIT & RV4C REMOTE VFO,SPEAKER AND AC-4 POWER SUPPLY, AND MN2000 MATCHING NETWORK. POWER SUPPLY HAS BEEN REBUILT WITH HARBAC ELECTRONICS NEW ELECTROLYTICS AND PCB BOARD WITH NEW RESISTORS AND DIODES. MINT SURE MODEL 444D MIKE IN ORIGINAL FACTORY BOX WITH CORRECT MIKE CONNECTOR FOR THIS RADIO.
THIS TR4CW/RIT IS ONE OF THE LAST FEW MANUFACTURES. SERIAL NUMBER 45419. IT SHOULD BE IN A DRAKE RADIO MUSEUM. ABSOLUTELY MINT AND NOT A SMUDGE OR SCRATCH ANY WHERE. WORKS PERFECTLY AND A FULL 200 WATTS KEY DOWN OUTPUT. ORIGINAL FACTORY BOX FOR THE RADIO & AND INSTRUCTION MANUAL INCLUDED.
MANY ORIGINAL DRAKE SPARE PARTS & A FULL SET OF ORIGINAL TUBES AND SYLVANIA FINALS AVAILABLE TO THE RIGHT BUYER.
READY TO PLUG AND PLAY THIS FINE EXAMPLE ON THE AIR RIGHT NOW!
PICTURES AVAILABLE UPON REQUEST.
$2700 SHIPPED
Listing #880128 - Submitted on 01/02/11 by Callsign W3FW
Click Here to Email -- Send this Ad to a Friend

4804. Re: [DrakeRadio] TR4cw/RIT listed on QTH

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 15:12:29 UTC
From: Don Cunningham
Topic: 4803 Message: 4804

Yes, I thought that price was an April fool joke!!!!!!!!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4805. Re: [DrakeRadio] TR4cw/RIT listed on QTH

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 15:54:50 UTC
From: amfone
Topic: 4803 Message: 4805

Wow .... is all can I say.. Gold plated I guess.

From: DennisW <w4eal@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, January 3, 2011 12:07:30 AM
Subject: [DrakeRadio] TR4cw/RIT listed on QTH

FOR SALE: DRAKE TR4CW/RIT(mint)
FOR SALE: PRISTINE MUSEUM QUALITY DRAKE TR4CW/RIT & RV4C REMOTE VFO,SPEAKER AND AC-4 POWER SUPPLY, AND MN2000 MATCHING NETWORK. POWER SUPPLY HAS BEEN REBUILT WITH HARBAC ELECTRONICS NEW ELECTROLYTICS AND PCB BOARD WITH NEW RESISTORS AND DIODES. MINT SURE MODEL 444D MIKE IN ORIGINAL FACTORY BOX WITH CORRECT MIKE CONNECTOR FOR THIS RADIO.
THIS TR4CW/RIT IS ONE OF THE LAST FEW MANUFACTURES. SERIAL NUMBER 45419. IT SHOULD BE IN A DRAKE RADIO MUSEUM. ABSOLUTELY MINT AND NOT A SMUDGE OR SCRATCH ANY WHERE. WORKS PERFECTLY AND A FULL 200 WATTS KEY DOWN OUTPUT. ORIGINAL FACTORY BOX FOR THE RADIO & AND INSTRUCTION MANUAL INCLUDED.
MANY ORIGINAL DRAKE SPARE PARTS & A FULL SET OF ORIGINAL TUBES AND SYLVANIA FINALS AVAILABLE TO THE RIGHT BUYER.
READY TO PLUG AND PLAY THIS FINE EXAMPLE ON THE AIR RIGHT NOW!
PICTURES AVAILABLE UPON REQUEST.
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Click Here to Email -- Send this Ad to a Friend

[Non-text portions of this message have been removed]

4806. Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 18:54:02 UTC
From: ljunggren.peter
Topic: 4771 Message: 4806

Hi and thanks for your answers.

A short update about my TR-3. It's working ok in receive now on 80 and 20M and really well too :-)
The OA2 (V20) flickers with some hum on 40 and won't ignite on 15 & 10M.
USB/LSB are working ok. I checked the AC-4, 288 Volt DC without any load with 0,3 Volt ripple, Bias was -51,2 with 0,6 Volt ripple (AC-voltmeter), I haven't checked the HV yet.

All I have done inside the radio so far is cleaning of wafers and tube sockets.
Checked and retightened all ground lugs (I hope) and resolder one resistor.
Any ideas or suggestions about the OA2?

73 de SM7ZDE //Peter

4807. Re: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 19:11:36 UTC
From: Garey Barrell
Topic: 4771 Message: 4807

Peter -

A flickering 0A2 sometimes indicates marginal overhead voltage, or a faulty 0A2.....! Measure the voltage on Pin 1 and see if it holds steady near +150 VDC as you change bands. The source resistor that comes directly from the +250 VDC bus is a wirewound, R112, and these don't change value often. They CAN become intermittent, but that's also pretty rare.

The 80 and 20M bands are 'mirrored' from the 9 MHz CO and 5.5 MHz PTO. The other bands are developed via the BAND oscillator, V1, and associated Premixer V3. Swapping out these 6EA8s and/or measuring the voltages around these stages may give a clue.

Just a guess from several thousand miles away would say that something in the V1 and V3 stages are drawing excessive current from the +150V bus when they are switched in.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ljunggren.peter wrote:
> Hi and thanks for your answers.
>
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> The OA2 (V20) flickers with some hum on 40 and won't ignite on 15& 10M.
> USB/LSB are working ok. I checked the AC-4, 288 Volt DC without any load with
> 0,3 Volt ripple, Bias was -51,2 with 0,6 Volt ripple (AC-voltmeter), I haven't
> checked the HV yet.
>
> All I have done inside the radio so far is cleaning of wafers and tube sockets.
> Checked and retightened all ground lugs (I hope) and resolder one resistor.
> Any ideas or suggestions about the OA2?
>
> 73 de SM7ZDE //Peter
>
>

4808. TR7 ALC light & Power indication

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 20:58:33 UTC
From: Brenton Crowhurst
Topic: 4803 Message: 4808

Greetings Drakies, and Happy New Years, one and all!

I'm having a puzzling problem--a bit intermittent.

It began yesterday when I turned the rig back on after being away for a week.

First thing I noticed, the S Meter bulb was gone again. Just replaced that a couple months ago. Perhaps it's unrelated to the real problem.

On transmit, the ALC light on the TR7 doesn't illuminate. Out put fluctuates. Testing it with key down in cw mode, it's fluctuating between 10 or 20 (I think) watts and 110 out. As measured by the MN 2700.

I managed an SSB qso yesterday with no ALC light, not realizing how low my power was. Guess I better correct the log book regarding my output power, Hi!

So, the radio seems to work. Except for the lack of power.

Any ideas are greatly appreciated.

Thanks in advance,

Brenton
VE6IE

4809. Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 21:57:58 UTC
From: ljunggren.peter
Topic: 4771 Message: 4809

Hi Garey and thank you,

I guess I know what to tomorrow night then :-)

I'll check the voltage around V1 and V3 tomorrow, did a second check according the resistance chart in the manual tonight, all results was ok I think, slightly high but not much, pin 9 on V1 was 163 KOhm the same at pin 2 on V3 163 KOhm, both should be 150 by the manual.

73 de SM7ZDE //Peter

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Peter -
>
> A flickering 0A2 sometimes indicates marginal overhead voltage, or a
> faulty 0A2.....! Measure the voltage on Pin 1 and see if it holds
> steady near +150 VDC as you change bands. The source resistor that
> comes directly from the +250 VDC bus is a wirewound, R112, and these
> don't change value often. They CAN become intermittent, but that's also
> pretty rare.
>
> The 80 and 20M bands are 'mirrored' from the 9 MHz CO and 5.5 MHz PTO.
> The other bands are developed via the BAND oscillator, V1, and
> associated Premixer V3. Swapping out these 6EA8s and/or measuring the
> voltages around these stages may give a clue.
>
> Just a guess from several thousand miles away would say that something
> in the V1 and V3 stages are drawing excessive current from the +150V bus
> when they are switched in.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> ljunggren.peter wrote:
> > Hi and thanks for your answers.
> >
> > A short update about my TR-3. It's working ok in receive now on 80 and 20M and really
well too :-)
> > The OA2 (V20) flickers with some hum on 40 and won't ignite on 15& 10M.
> > USB/LSB are working ok. I checked the AC-4, 288 Volt DC without any load with

> > 0,3 Volt ripple, Bias was -51,2 with 0,6 Volt ripple (AC-voltmeter), I haven't
> > checked the HV yet.
> >
> > All I have done inside the radio so far is cleaning of wafers and tube sockets.
> > Checked and retightened all ground lugs (I hope) and resolder one resistor.
> > Any ideas or suggestions about the OA2?
> >
> > 73 de SM7ZDE //Peter
> >
> >
>

4810. Re: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-03 22:38:37 UTC
From: Richard Knoppow
Topic: 4771 Message: 4810

----- Original Message -----
From: "ljunggren.peter" <ljunggren.peter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, January 03, 2011 1:57 PM
Subject: [DrakeRadio] Re: A short introduction and a few questions about TR-3.

>
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>
> Hi Garey and thank you,
>
> I guess I know what to tomorrow night then :-)
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> I'll check the voltage around V1 and V3 tomorrow, did a
> second check according the
> resistance chart in the manual tonight, all results was ok
> I think, slightly high but not
> much, pin 9 on V1 was 163 KOhm the same at pin 2 on V3
> 163 KOhm, both should be 150 by the
> manual.
>
> 73 de SM7ZDE //Peter

I have had problems with wire wound resistors
developing bad contacts between the winding and terminals.
They can be intermittant, I had one multisection WW in an
old General Radio generator that oscillated! As it heated up
the contact would open, then it cooled a little and it
closed again. Took me a while to figure out what was going
on, because, of course, it measured good when cold.
Also, VR tubes can filcker and be dim if the minimim
current through them is too low. Try disconnecting whatever
is connected to it and see what happens. VR tubes do go bad
but they are pretty long lived. My bet is on the resistor.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4811. Re: [DrakeRadio] TR7 ALC light & Power indication

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-04 02:55:12 UTC
From: Jim Shorney
Topic: 4803 Message: 4811

On Mon, 3 Jan 2011 13:58:33 -0700, Brenton Crowhurst wrote:

>On transmit, the ALC light on the TR7 doesn't illuminate. Out put fluctuates. Testing it with key down in cw mode, it's fluctuating between 10 or 20 (I think) watts and 110 out. As measured by the MN 2700.

Hi Brent,

That sounds a little bit like what was happening when I had leaky driver transistors on the PA deck. However, first I would check for "connectoritis", intermittent gain pot on the predriver board, or failing T/R relay.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4812. Re: A short introduction and a few questions about TR-3.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-04 01:55:47 UTC
From: w6ou
Topic: 4771 Message: 4812

I assume your speaker is connected to the TR-3 through the multi-pin connector at the rear of the TR-3. Try connecting the speaker to the headphone jack instead. If the hum goes away then the problem is poor grounding of the speaker wire inside the TR-3.

4813. Drake TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-04 19:44:22 UTC
From: ljunggren.peter
Topic: 4813 Message: 4813

Garey

Measured the voltage on OA2 (V20) under load today.

80M 148,9 VDC
40M 150,1 VDC
20M 149,0 VDC
15M 150,0 VDC

On 10M it was unstable, from 138 to 150 VDC,
finally it stabilized around 150 there too.
No visible light inside on 15 and 10M.

Richard

Did a double, even a triple check on the two
wirewound resistors R110 and R112, found a really
bad solderjoint on R112, eletrically it measured ok but
it might be a source for problems. Resoldered it.
Thanks for info!

73 de SM7ZDE //Peter

4814. TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 02:04:25 UTC
From: William Houghton
Topic: 4814 Message: 4814

Hi fellow Drake fans.

It's been some time since I last worked on this but I could never quite get the finals neutralized in my TR-4C. I followed the instructions in the manual. I could never quite get to the point where max RF out corresponded to min plate current.

Is this a tough adjustment to make, or am I having a mental lapse every time I try to do this? Are there any methods other than what is described in the TR-4C manual to achieve this? Is my IO-10 monitor scope of any help in this process?

I haven't worked on this for abour 6 months and would like to give it another shot.

73,

Bill

[Non-text portions of this message have been removed]

4815. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 03:06:28 UTC
From: Garey Barrell
Topic: 4814 Message: 4815

Bill -

Are all three tubes from the same manufacturer? Different brands don't all neutralize at the same capacitance, (some not all,) which can make it difficult.

If they ARE all the same, try neutralizing on 15M first. The 'sweet spot' is a little bigger on 15 than on 10, and a little easier to find. Once you get it on 15, then only a tiny nudge to refine for 10.

The 'classic' neutralization procedure is to turn the amplifier (transceiver) OFF, feed a small signal INTO the OUTPUT of the amp, peak the TUNE and LOAD controls for maximum signal level at the INPUT of the amplifier stage, and then tune the neutralization cap for minimum signal at the INPUT side. Monitor the input with receiver or other sensitive detector.

The Drake method is easier, especially after you do it a time or three. It just takes patience. Do as they say, carefully dip the PLATE current well below 200 mA, which should give you a nice sharp dip. Then, watching the output POWER meter, turn the PLATE control either way from the dip point. If the OUTPUT power goes down, then carefully re-dip and then turn the PLATE control the 'other' way out of the dip. If the OUTPUT power goes down again, you're done! If the output power goes UP in either direction, adjust the neutralization cap slightly one way or the other and try again! I guess it helps to keep track of which way, but after you do it a couple of times you can tell if you made it better or worse with the neutralization cap adjustment and try it again. AGAIN, it's easier to find the spot on 15 or even 20M since it's broader as you go lower in frequency. Once you get it on the lower band, it takes only a tiny adjustment to refine it on 10, which is the sharpest null.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
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>
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> current.
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> Is this a tough adjustment to make, or am I having a mental lapse every time I
> try to do this? Are there any methods other than what is described in the TR-4C
> manual to achieve this? Is my IO-10 monitor scope of any help in this process?
>
> I haven't worked on this for abour 6 months and would like to give it another
> shot.
>
>
> 73,
>
> Bill
>
>
>

4816. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 07:47:17 UTC
From: William Houghton
Topic: 4814 Message: 4816

Thanks Gary.

Yes, they are all Sylvania tubes.

You feed in a singal into the output with an RF generator? Can you monitor the input with a scope ?

Bill

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Wed, January 5, 2011 7:06:28 PM
Subject: Re: [DrakeRadio] TR-4C neutralization

Bill -

Are all three tubes from the same manufacturer? Different brands don't all neutralize at the same capacitance, (some not all,) which can make it difficult.

If they ARE all the same, try neutralizing on 15M first. The 'sweet spot' is a little bigger on 15 than on 10, and a little easier to find. Once you get it on 15, then only a tiny nudge to refine for 10.

The 'classic' neutralization procedure is to turn the amplifier (transceiver) OFF, feed a small signal INTO the OUTPUT of the amp, peak the TUNE and LOAD controls for maximum signal level at the INPUT of the amplifier stage, and then tune the neutralization cap for minimum signal at the INPUT side. Monitor the input with receiver or other sensitive detector.

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Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> manual to achieve this? Is my IO-10 monitor scope of any help in this process?
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> I haven't worked on this for abour 6 months and would like to give it another
> shot.
>
>
> 73,
>
> Bill
>
>
>

[Non-text portions of this message have been removed]

4817. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 14:54:07 UTC
From: Garey Barrell
Topic: 4814 Message: 4817

Bill -

No need to monitor the input to the output of the amplifier with a scope. All you need is enough signal to be able to detect it at the input of the amp with a receiver.

Neutralization means that you are coupling (via the neutralization capacitor) from the OUTPUT to the INPUT of the amp enough _negative feedback_ (out of phase signal) to offset the capacitive coupling from the INPUT to the OUTPUT through the PA tubes. Essentially the neutralization capacitor is equal in value to the interelement capacity of the three tubes. This is why some tubes won't neutralize without adding additional fixed capacitance across the neutralization trimmer.

So with power OFF and disconnected from the AC-4, connect your separate receiver Antenna via a coax lead clipped to the Plate of V6. Then apply the signal generator to the transceiver Antenna connector, find the signal on the separate receiver, and peak with the TUNE and LOAD controls on the transceiver. Adjust the neutralization capacitor on the transceiver for minimum signal at the receiver and you're done.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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William Houghton wrote:
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> Bill
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Wed, January 5, 2011 7:06:28 PM
> Subject: Re: [DrakeRadio] TR-4C neutralization

>
>
> Bill -
>
> Are all three tubes from the same manufacturer? Different brands don't
> all neutralize at the same capacitance, (some not all,) which can make
> it difficult.
>
> If they ARE all the same, try neutralizing on 15M first. The 'sweet
> spot' is a little bigger on 15 than on 10, and a little easier to
> find. Once you get it on 15, then only a tiny nudge to refine for 10.
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> (transceiver) OFF, feed a small signal INTO the OUTPUT of the amp, peak
> the TUNE and LOAD controls for maximum signal level at the INPUT of the
> amplifier stage, and then tune the neutralization cap for minimum signal
> at the INPUT side. Monitor the input with receiver or other sensitive
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> watching the output POWER meter, turn the PLATE control either way from
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> then turn the PLATE control the 'other' way out of the dip. If the
> OUTPUT power goes down again, you're done! If the output power goes UP
> in either direction, adjust the neutralization cap slightly one way or
> the other and try again! I guess it helps to keep track of which way,
> but after you do it a couple of times you can tell if you made it better
> or worse with the neutralization cap adjustment and try it again.
> AGAIN, it's easier to find the spot on 15 or even 20M since it's broader
> as you go lower in frequency. Once you get it on the lower band, it
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>>
>> I haven't worked on this for abour 6 months and would like to give it another
>> shot.
>>
>>
>> 73,
>>
>> Bill
>

4818. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 18:38:57 UTC
From: William Houghton
Topic: 4814 Message: 4818

Thanks Gary ! About a month or so ago I picked up an older Heathkit tube type "lab" RF gen (the one with the meter on it) for $20. This will give me a chance to use it. I can use my Icom 730 or my R-4A as the receiver.

Bill

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Thu, January 6, 2011 6:54:07 AM
Subject: Re: [DrakeRadio] TR-4C neutralization

Bill -

No need to monitor the input to the output of the amplifier with a scope. All you need is enough signal to be able to detect it at the input of the amp with a receiver.

Neutralization means that you are coupling (via the neutralization capacitor) from the OUTPUT to the INPUT of the amp enough _negative feedback_ (out of phase signal) to offset the capacitive coupling from the INPUT to the OUTPUT through the PA tubes. Essentially the neutralization capacitor is equal in value to the interelement capacity of the three tubes. This is why some tubes won't neutralize without adding additional fixed capacitance across the neutralization trimmer.

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73, Garey - K4OAH
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William Houghton wrote:
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>
> Bill
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@...m
> Sent: Wed, January 5, 2011 7:06:28 PM
> Subject: Re: [DrakeRadio] TR-4C neutralization
>
>
> Bill -
>
> Are all three tubes from the same manufacturer? Different brands don't
> all neutralize at the same capacitance, (some not all,) which can make
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>
> If they ARE all the same, try neutralizing on 15M first. The 'sweet
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> <www.k4oah.com>
>
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>> I haven't worked on this for abour 6 months and would like to give it another
>> shot.
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>>
>> 73,
>>
>> Bill
>

[Non-text portions of this message have been removed]

4819. Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 21:46:02 UTC
From: Hans-Joachim Empel
Topic: 4819 Message: 4819

Hello to the Group ,

i am looking for an additional frequency counter for my TR-7.

Has anybody an idear what kind of Frequency Counter i can use ?????

If anybody has an idear for buying a counter , please let me know.

All Informations are welcome.

Kind regards from Germany

Joachim Empel

DL2388RB

[Non-text portions of this message have been removed]

4820. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 21:57:07 UTC
From: Garey Barrell
Topic: 4819 Message: 4820

Joachim -

May I ask why you need an additional counter?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> Hello to the Group ,
>
> i am looking for an additional frequency counter for my TR-7.
>
> Has anybody an idear what kind of Frequency Counter i can use ?????
>
> If anybody has an idear for buying a counter , please let me know.
>
> All Informations are welcome.
>
> Kind regards from Germany
>
> Joachim Empel
>
> DL2388RB
>
>

4821. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 22:14:29 UTC
From: Hans-Joachim Empel
Topic: 4819 Message: 4821

I am setting up the TR-7 in the front of my shag , the RV7 Unit and the
Speaker a little bit away from the TX.

The Problem is : i cant see the Frequency of the TR-7 in tis conditions.

Thats the reason that i am looking for an additional Frequency Counter.

73,
Joachim

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 06, 2011 10:57 PM
Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
TR-7

> Joachim -
>
> May I ask why you need an additional counter?
>
> 73, Garey - K4OAH
> Glen Allen, VA
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>> If anybody has an idear for buying a counter , please let me know.
>>
>> All Informations are welcome.
>>
>> Kind regards from Germany
>>
>> Joachim Empel
>>
>> DL2388RB
>>

>>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4822. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 22:26:49 UTC
From: Jim Shorney
Topic: 4819 Message: 4822

You would need a preset counter that can handle the offset of the L.O., and a buffer amplifier for the L.O. to feed it out to the external counter.

73

-Jim

On Thu, 6 Jan 2011 23:14:29 +0100, Hans-Joachim Empel wrote:

>I am setting up the TR-7 in the front of my shag , the RV7 Unit and the
>Speaker a little bit away from the TX.
>
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>
>73,
>Joachim
>
>----- Original Message -----
>From: "Garey Barrell" <k4oah@...>
>To: <DrakeRadio@yahoogroups.com>
>Sent: Thursday, January 06, 2011 10:57 PM
>Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
>TR-7
>
>
>> Joachim -
>>
>> May I ask why you need an additional counter?
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Hans-Joachim Empel wrote:
>>> Hello to the Group ,
>>>
>>> i am looking for an additional frequency counter for my TR-7.
>>>
>>> Has anybody an idear what kind of Frequency Counter i can use ?????
>>>

>>> If anybody has an idear for buying a counter , please let me know.
>>>
>>> All Informations are welcome.
>>>
>>> Kind regards from Germany
>>>
>>> Joachim Empel
>>>
>>> DL2388RB
>>>
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>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
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>

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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4823. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 22:36:33 UTC
From: Hans-Joachim Empel
Topic: 4819 Message: 4823

Thanks Jim for this important informations

73

Joachim
----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 06, 2011 11:26 PM
Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
TR-7

>
> You would need a preset counter that can handle the offset of the L.O.,
> and a
> buffer amplifier for the L.O. to feed it out to the external counter.
>
> 73
>
> -Jim
>
>
> On Thu, 6 Jan 2011 23:14:29 +0100, Hans-Joachim Empel wrote:
>
>>I am setting up the TR-7 in the front of my shag , the RV7 Unit and the
>>Speaker a little bit away from the TX.
>>
>>The Problem is : i cant see the Frequency of the TR-7 in tis conditions.
>>
>>Thats the reason that i am looking for an additional Frequency Counter.
>>
>>73,
>>Joachim
>>
>>----- Original Message -----
>>From: "Garey Barrell" <k4oah@...>
>>To: <DrakeRadio@yahoogroups.com>
>>Sent: Thursday, January 06, 2011 10:57 PM
>>Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
>>TR-7
>>
>>
>>> Joachim -
>>>
>>> May I ask why you need an additional counter?
>>>

>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> http://www.nebraskaghosts.org

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> ------------------------------------
>
> Yahoo! Groups Links
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>

4824. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 22:39:32 UTC
From: Garey Barrell
Topic: 4819 Message: 4824

OK. I assume you can't arrange to sit in front of the TR-7 for space reasons.... If I understand correctly, you are using the RV-7 as a 'remote' control.

I don't know of any specific units designed for this service. You have two choices that I see; 1. A plain frequency counter that is able to sample directly the output of the transmitter, or , 2. A 'special' counter that monitors the RV-7 and has a reference oscillator to compensate for the offset of the mixing scheme.

AADE <http://www.aade.com/dfd1.htm> offers a series of both types of counters, but I don't know if his units can deal with the VHF IF of the TR-7.

Another possible source would be the N3ZI kits at <http://www.pongrance.com/> for either direct or indirect measurement.

Certainly a simple counter would be the easiest to implement, all you need is a way to sample a small portion of the transmitter output with a capacitively coupled "T" or other 'sniffer' arrangement.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
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> Speaker a little bit away from the TX.
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> The Problem is : i cant see the Frequency of the TR-7 in tis conditions.
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> Thats the reason that i am looking for an additional Frequency Counter.
>
> 73,
> Joachim
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Thursday, January 06, 2011 10:57 PM
> Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
> TR-7
>
>

>
>> Joachim -
>>
>> May I ask why you need an additional counter?
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>> 73, Garey - K4OAH
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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>>
>>
>> Hans-Joachim Empel wrote:
>>
>>> Hello to the Group ,
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>>> Has anybody an idear what kind of Frequency Counter i can use ?????
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>>> If anybody has an idear for buying a counter , please let me know.
>>>
>>> All Informations are welcome.
>>>
>>> Kind regards from Germany
>>>
>>> Joachim Empel
>>>
>>> DL2388RB
>>>
>>>
>

4825. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-06 22:50:03 UTC
From: Hans-Joachim Empel
Topic: 4819 Message: 4825

Thanks for the Informations , i will contakt AADE and N3ZI , but i think the easiest way is to use
the simple methode with a counter and a coupled " T ".
I think i need an smal amplifier to hold the signal stable , but the next days iwill spend some time to check this out.

Thanks for all this helpfull Informations

Kind regards and 73

Joachim

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, January 06, 2011 11:39 PM
Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

> OK. I assume you can't arrange to sit in front of the TR-7 for space
> reasons.... If I understand correctly, you are using the RV-7 as a
> 'remote' control.
>
> I don't know of any specific units designed for this service. You have
> two choices that I see; 1. A plain frequency counter that is able to
> sample directly the output of the transmitter, or , 2. A 'special'
> counter that monitors the RV-7 and has a reference oscillator to
> compensate for the offset of the mixing scheme.
>
> AADE <http://www.aade.com/dfd1.htm> offers a series of both types of
> counters, but I don't know if his units can deal with the VHF IF of the
> TR-7.
>
> Another possible source would be the N3ZI kits at
> <http://www.pongrance.com/> for either direct or indirect measurement.
>
> Certainly a simple counter would be the easiest to implement, all you
> need is a way to sample a small portion of the transmitter output with a
> capacitively coupled "T" or other 'sniffer' arrangement.
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> 73, Garey - K4OAH
> Glen Allen, VA
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>
>
> Hans-Joachim Empel wrote:
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>> Speaker a little bit away from the TX.
>>
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>> Thats the reason that i am looking for an additional Frequency Counter.
>>
>> 73,
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>> From: "Garey Barrell"<k4oah@...>
>> To:<DrakeRadio@yahoogroups.com>
>> Sent: Thursday, January 06, 2011 10:57 PM
>> Subject: Re: [DrakeRadio] Looking for additional Frequency Counter for my
>> TR-7
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>>
>>> Joachim -
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>>> May I ask why you need an additional counter?
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>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>>>> i am looking for an additional frequency counter for my TR-7.
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>>>> Has anybody an idear what kind of Frequency Counter i can use ?????
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>>>> If anybody has an idear for buying a counter , please let me know.
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>>>> All Informations are welcome.
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>>>> Kind regards from Germany
>>>>
>>>> Joachim Empel
>>>>

>>>> DL2388RB
>>>>
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>>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4826. Re: [DrakeRadio] Looking for additional Frequency Counter for my TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-07 02:27:15 UTC
From: Jim Shorney
Topic: 4819 Message: 4826

On Thu, 6 Jan 2011 23:36:33 +0100, Hans-Joachim Empel wrote:

>
>Thanks Jim for this important informations

Thinking about this a little more, since the DR-7 display is a preset counter reading the L.O., it should already have the buffering you need. You could probably pick the buffered L.O. off of the DR-7 board to feed directly to an external preset counter. The digital dial adapters marketed for use with vintage radios are usually preset counter designs with programmable offset to allow for various different IF frequencies.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4827. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-08 00:48:22 UTC
From: William Houghton
Topic: 4814 Message: 4827

Garey,

I thought I once read something you wrote that said you have used a grid dip meter for neutralization. Are you using the GDM as the signal source?

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, January 6, 2011 6:54:07 AM
Subject: Re: [DrakeRadio] TR-4C neutralization

Bill -

No need to monitor the input to the output of the amplifier with a scope. All you need is enough signal to be able to detect it at the input of the amp with a receiver.

Neutralization means that you are coupling (via the neutralization capacitor) from the OUTPUT to the INPUT of the amp enough _negative feedback_ (out of phase signal) to offset the capacitive coupling from the INPUT to the OUTPUT through the PA tubes. Essentially the neutralization capacitor is equal in value to the interelement capacity of the three tubes. This is why some tubes won't neutralize without adding additional fixed capacitance across the neutralization trimmer.

So with power OFF and disconnected from the AC-4, connect your separate receiver Antenna via a coax lead clipped to the Plate of V6. Then apply the signal generator to the transceiver Antenna connector, find the signal on the separate receiver, and peak with the TUNE and LOAD controls on the transceiver. Adjust the neutralization capacitor on the transceiver for minimum signal at the receiver and you're done.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Thanks Gary.
>
> Yes, they are all Sylvania tubes.
>
> You feed in a singal into the output with an RF generator? Can you monitor the

> input with a scope ?
>
> Bill
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Wed, January 5, 2011 7:06:28 PM
> Subject: Re: [DrakeRadio] TR-4C neutralization
>
>
> Bill -
>
> Are all three tubes from the same manufacturer? Different brands don't
> all neutralize at the same capacitance, (some not all,) which can make
> it difficult.
>
> If they ARE all the same, try neutralizing on 15M first. The 'sweet
> spot' is a little bigger on 15 than on 10, and a little easier to
> find. Once you get it on 15, then only a tiny nudge to refine for 10.
>
> The 'classic' neutralization procedure is to turn the amplifier
> (transceiver) OFF, feed a small signal INTO the OUTPUT of the amp, peak
> the TUNE and LOAD controls for maximum signal level at the INPUT of the
> amplifier stage, and then tune the neutralization cap for minimum signal
> at the INPUT side. Monitor the input with receiver or other sensitive
> detector.
>
> The Drake method is easier, especially after you do it a time or three.
> It just takes patience. Do as they say, carefully dip the PLATE current
> well below 200 mA, which should give you a nice sharp dip. Then,
> watching the output POWER meter, turn the PLATE control either way from
> the dip point. If the OUTPUT power goes down, then carefully re-dip and
> then turn the PLATE control the 'other' way out of the dip. If the
> OUTPUT power goes down again, you're done! If the output power goes UP
> in either direction, adjust the neutralization cap slightly one way or
> the other and try again! I guess it helps to keep track of which way,
> but after you do it a couple of times you can tell if you made it better
> or worse with the neutralization cap adjustment and try it again.
> AGAIN, it's easier to find the spot on 15 or even 20M since it's broader
> as you go lower in frequency. Once you get it on the lower band, it
> takes only a tiny adjustment to refine it on 10, which is the sharpest null.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> William Houghton wrote:
>
>> Hi fellow Drake fans.
>>
>> It's been some time since I last worked on this but I could never quite get
>>
> the
>
>> finals neutralized in my TR-4C. I followed the instructions in the manual. I
>> could never quite get to the point where max RF out corresponded to min plate
>> current.
>>
>>
>> Is this a tough adjustment to make, or am I having a mental lapse every time
I
>> try to do this? Are there any methods other than what is described in the
>>
> TR-4C
>
>> manual to achieve this? Is my IO-10 monitor scope of any help in this
process?
>>
>> I haven't worked on this for abour 6 months and would like to give it another
>> shot.
>>
>>
>> 73,
>>
>> Bill
>

[Non-text portions of this message have been removed]

4828. Re: [DrakeRadio] TR-4C neutralization

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-08 02:39:58 UTC
From: Garey Barrell
Topic: 4814 Message: 4828

Bill -

Nope, wasn't me. You need a generator with a shielded output cable as
you need to minimize coupling the signal AROUND the amplifier.

Very few GD meters are stable enough anyway! :-) A modern, SS
transceiver is a good signal generator if you are VERY careful to limit
the output. One way is to put a "T" connector on a dummy load, with the
power turned all the way down on the transceiver, but you have to
proceed with great caution. Not TOO much danger since you are feeding
it into the output of the amplifier you are testing, and you shouldn't
have enough fed back through even with with no neutralization to harm
the detecting receiver, but you can't be too careful.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

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>
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>
>
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>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Thu, January 6, 2011 6:54:07 AM
> Subject: Re: [DrakeRadio] TR-4C neutralization
>
>
> Bill -
>
> No need to monitor the input to the output of the amplifier with a
> scope. All you need is enough signal to be able to detect it at the
> input of the amp with a receiver.
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> Neutralization means that you are coupling (via the neutralization
> capacitor) from the OUTPUT to the INPUT of the amp enough _negative
> feedback_ (out of phase signal) to offset the capacitive coupling from
> the INPUT to the OUTPUT through the PA tubes. Essentially the
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> adding additional fixed capacitance across the neutralization trimmer.
>
> So with power OFF and disconnected from the AC-4, connect your separate
> receiver Antenna via a coax lead clipped to the Plate of V6. Then apply
> the signal generator to the transceiver Antenna connector, find the
> signal on the separate receiver, and peak with the TUNE and LOAD
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>> To: DrakeRadio@yahoogroups.com
>> Sent: Wed, January 5, 2011 7:06:28 PM
>> Subject: Re: [DrakeRadio] TR-4C neutralization
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>> Bill -
>>
>> Are all three tubes from the same manufacturer? Different brands don't
>> all neutralize at the same capacitance, (some not all,) which can make
>> it difficult.
>>
>> If they ARE all the same, try neutralizing on 15M first. The 'sweet

>> spot' is a little bigger on 15 than on 10, and a little easier to
>> find. Once you get it on 15, then only a tiny nudge to refine for 10.
>>
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>> (transceiver) OFF, feed a small signal INTO the OUTPUT of the amp, peak
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>> watching the output POWER meter, turn the PLATE control either way from
>> the dip point. If the OUTPUT power goes down, then carefully re-dip and
>> then turn the PLATE control the 'other' way out of the dip. If the
>> OUTPUT power goes down again, you're done! If the output power goes UP
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>> but after you do it a couple of times you can tell if you made it better
>> or worse with the neutralization cap adjustment and try it again.
>> AGAIN, it's easier to find the spot on 15 or even 20M since it's broader
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>> takes only a tiny adjustment to refine it on 10, which is the sharpest null.
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>> William Houghton wrote:
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>>> finals neutralized in my TR-4C. I followed the instructions in the manual. I
>>> could never quite get to the point where max RF out corresponded to min plate
>>> current.
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>>> Is this a tough adjustment to make, or am I having a mental lapse every time
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>>>
> process?
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>>> I haven't worked on this for abour 6 months and would like to give it another
>>> shot.
>>>
>>>
>>> 73,
>>>
>>> Bill
>>>
>

4829. Re: 12ax7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-09 14:03:01 UTC
From: gm4cid
Topic: 4738 Message: 4829

Vic, are you sorted? If not send me a msg, I have some NOS CV4004 saved for a rainy day. 73 Bob GM4CID

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> OK, That does it.....
>
> We don't need that type of attitude here. I believe Vic's original question
> has been answered nicely.
>
> So....
>
> This topic is closed.
>
> Joe Wolfe
> WA6RKN
> Moderator
>
> ----- Original Message -----
> From: "Jerry Harley" <wa2tti@...>
> Subject: Re: [DrakeRadio] 12ax7
>
>
> > WHO CARES
>

4830. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-09 19:59:28 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4830

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

4831. FS: Variety of Radio Items

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-09 23:34:42 UTC
From: Bry Carling
Topic: 4831 Message: 4831

FOR SALE - Various Radio Items:

Hallicrafters Sky Buddy S19, Excellent - $165.00

Yaesu FT-101E, may need some work - $225.00

KLM ECHO 70 SSB-CW Transceiver for UHF 70cm Band - $95.00

RL Drake Company receiver 100 kHz - 30.0 MHz PRN1000 - $145.00

Two 250 watt variacs - Each designed for 0 - 250 V AC at 1 amp.
Can be used at 120V AC also.
Available for $27.00 each

Heath HD-15 Phone Patch - cherry, $15.00

Panel meter - 0 to 200 mA DC, 2" diameter with hardware - $5.00

Group of variable capacitors -
Consists of TWO DUAL 500pf air variable capacitors and TWO 350 pF
single air variable capacitors.
ALL FOUR for a total of $20.00 plus shipping.

MFJ-760 notch filter - 80 to 180 MHz... $4.00

Hamtronics 800 MHz receiving converter $4.00

14V DC at 4.5 Amps power supply.
AC operated supply. Based on a circuit Board. Rugged design - great
for filaments or for use with other projects. Excellent working condition.
QTY 1 available for $8.00 plus shipping.

More parts and accessory items will be added soon...

73 - Brian, AF4K

Pictures and details here:

http://www.af4k.com/radios.htm

http://www.af4k.com/miscpart.htm

[Non-text portions of this message have been removed]

4832. Feet for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-14 21:12:53 UTC
From: nn4x
Topic: 4832 Message: 4832

I have an MS-4, but the person I purchased it from has non-Drake feet on it.

Does anyone have any sources for feet?

Thanks / 73,
Steve
NN4X

4833. Re: [DrakeRadio] Feet for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-14 21:19:47 UTC
From: Joe
Topic: 4832 Message: 4833

Steve...lots of Drake feet sets on eBay. Look there.....This will get you started:

http://shop.ebay.com/?_from=R40&_trksid=p5197.m570.l1313&_nkw=Drake+radio+feet&_sacat=See-All-Categories

I got a set and you cannot tell the difference from what came on the radio(s).

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "nn4x" <nn4x@...>
Subject: [DrakeRadio] Feet for MS-4?

>I have an MS-4, but the person I purchased it from has non-Drake feet on
>it.
>
> Does anyone have any sources for feet?
>
> Thanks / 73,
> Steve
> NN4X

4834. Re: [DrakeRadio] Feet for MS-4?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-14 21:25:47 UTC
From: Garey Barrell
Topic: 4832 Message: 4834

Steve -

KE9PQ, either his internet site or EBay has them.

<http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

nn4x wrote:
> I have an MS-4, but the person I purchased it from has non-Drake feet on it.
>
> Does anyone have any sources for feet?
>
> Thanks / 73,
> Steve
> NN4X
>
>
>

4835. Re: Parts and resources

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-15 14:09:58 UTC
From: Dave Drake
Topic: 4835 Message: 4835

To the Group,

It probably needs to be communicated from time to time a few web sites that have great information on RL Drake products, service and parts. Lots of history too, like pictures and manuals and rig descriptions. Within each of these sites are links to many other websites.

And yes, the Drake feet you see on ebay, and elsewhere are near carbon copies of the originals. The even come with the little stacking screw to create an improved viewing angle.

Anyway, Here they are:

www.wb4hfn.com Click on the Drake logo and you'll get to the drake portion of the site. Lots of service information and many helpfull and informative articles Drake collectors and technicians. Ron Baker, who owns the site also does service work on Drake rigs and does sell a few Drake items to help keep the site going. As well, there is also listed other technicians who work on Drake gear. Here's a quicker link to parts and service:
http://www.wb4hfn.com/DRAKE/DrakePartsService.htm
and an even quicker link to a more specific page put together by Mark Gilger:
http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/Drake-Tech-Exchange-17.pdf Its a pdf file that can be printed out easily and used for future reference. Several links on it as well.

http://k4oah.com/ Service CD's for several of the tube type drake radios. Excellent product by Garey Barrell.

http://www.df4nw.de/ If you need a replacement display for a TR7, this is the only one I know of. I have one and its works great.

http://www.dproducts.be/DRAKE_MUSEUM/ Scroll down to the "source" tab on the left and you'll find quite a bit of parts source information. Do click on the other tabs and enjoy this great website.

73's
David
Wd9cmd

[Non-text portions of this message have been removed]

4836. looking for a trade:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-15 16:15:48 UTC
From: yash@aol.com
Topic: 4836 Message: 4836

Have a nice Kenwood ts-480sat,would like to work a trade for a Drake A or B line. Looking for a fully functional pair,no bench jobs. Need not be collector quality, but nice. The 480sat is in very nice condition,all manuals,boxs,cables and head mounts included.No issues of any kind. cosmetics 9/10.
thanks
dale wt4t

[Non-text portions of this message have been removed]

4837. Step by step info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-17 17:22:53 UTC
From: MIke
Topic: 4837 Message: 4837

I need helpful info on how to go about checking my L-7 linear. I had it upgraded, but since I got it back and tried it out, it will not transmit. (It does turn on and all lights showing!)

Since this is the first linear I have owned, I would like step by step instructions on what I am looking for. I can't find anyone locally that will help out!

Mike, WD5CCW

4838. Re: [DrakeRadio] Step by step info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-17 17:34:28 UTC
From: Don Cunningham
Topic: 4837 Message: 4838

Mike,
Do you have manuals for the L7 and TR7 shown in the photo on your QRZ page?? That will show us if you have the information for proper hookup. Are you trying to use the L7 with the TR7 or the rice box in the photo?? That also gives needed information. You should try NO poking around in the interior with no linear experience. Dangerous, life threatening voltages are inside!!!! The person that "upgraded" your amp really should have given you assurance that it works, and your step by step tuneup instructions, but give us some more information and some of the "guru's" on here will help. It's not me, unfortunately, but I do "use" a Drake amp, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4839. Re: [DrakeRadio] Step by step info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-17 17:49:23 UTC
From: K4GM-George
Topic: 4837 Message: 4839

Mike,
Does it go into transmit mode (the relay clicks??) when you Key the transceiver? If not maybe the Key line is not re-connected. Or maybe its in standby mode?? Don't mean to insult you but thought I would start with the easy stuff first.
George K4GM

On 1/17/2011 12:22 PM, MIke wrote:
>
> I need helpful info on how to go about checking my L-7 linear. I had
> it upgraded, but since I got it back and tried it out, it will not
> transmit. (It does turn on and all lights showing!)
>
> Since this is the first linear I have owned, I would like step by step
> instructions on what I am looking for. I can't find anyone locally
> that will help out!
>
> Mike, WD5CCW
>
>

[Non-text portions of this message have been removed]

4840. AC4 Tranni

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-18 09:22:17 UTC
From: Victor
Topic: 4840 Message: 4840

Hello all
Regret to say that the tranni has gone in my AC4 and I don't hold out much hope in sourcing a replacement. I have another PSU from a tube Tx that might fit the bill. The output voltages are the same except that the EHT is 750v. The other thing is that I don't think that the filament winding would be robust enough having been designed for only one P.A. So, if I parallel up a 12v 5amp tranni with the LT winding would that be OK? Also, would 750v overtax the PA's and associated ccts?
73
Vic
G4JSS

4841. Re: Step by step info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-18 14:43:08 UTC
From: MIke
Topic: 4837 Message: 4841

Don,
Thanks for the heads-up! I did hook it up to the TR7 as illustrated by my Manual and I really don't want to go poking around the interior of the "Widow maker". And it is NOT hooked up to the rice box!(grin)

Before I sent the L7 off for mods/upgrades, the tubes did glow on transmit...but not very long, there was a circuit that went bad and was repaired, I was wondering if during transit back to my QTH that the L7 did't get bumped, I had read that the tubes need to be out during transit, but also read these tubes are really robust during operation.

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Mike,
> Do you have manuals for the L7 and TR7 shown in the photo on your QRZ page?? That will show us if you have the information for proper hookup. Are you trying to use the L7 with the TR7 or the rice box in the photo?? That also gives needed information. You should try NO poking around in the interior with no linear experience. Dangerous, life threatening voltages are inside!!!! The person that "upgraded" your amp really should have given you assurance that it works, and your step by step tuneup instructions, but give us some more information and some of the "guru's" on here will help. It's not me, unfortunately, but I do "use" a Drake amp, hi.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4842. Re: Step by step info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-18 14:46:20 UTC
From: MIke
Topic: 4837 Message: 4842

George,
Thanks for the return! I have tried it in Standby and Transmit, no effect of key clicks! You could be on to something! I do have the rig connected as illustrated in my TR7/L7 manuals.
Mike, WD5CCW

--- In DrakeRadio@yahoogroups.com, K4GM-George <k4gm@...> wrote:
>
> Mike,
> Does it go into transmit mode (the relay clicks??) when you Key the
> transceiver? If not maybe the Key line is not re-connected. Or maybe
> its in standby mode?? Don't mean to insult you but thought I would
> start with the easy stuff first.
> George K4GM
>
> On 1/17/2011 12:22 PM, MIke wrote:
> >
> > I need helpful info on how to go about checking my L-7 linear. I had
> > it upgraded, but since I got it back and tried it out, it will not
> > transmit. (It does turn on and all lights showing!)
> >
> > Since this is the first linear I have owned, I would like step by step
> > instructions on what I am looking for. I can't find anyone locally
> > that will help out!
> >
> > Mike, WD5CCW
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

4843. Re: AC4 Tranni

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-21 21:11:26 UTC
From: ws1c_4
Topic: 4840 Message: 4843

Harbach / Peter Dahl lists Drake AC4 transformers, both 60 & 50 hz.

>

4844. AC4 tranni

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-22 09:31:25 UTC
From: Victor
Topic: 4844 Message: 4844

Hi
Thanks for info re tranni. Guess I'll not pursue my original thoughts re adapting another tranni!
Also thanks for the info re Harbach - have sent them an email re a replacement.
Thanks again
Vic

4845. FS: Compactron Tube Sockets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-22 20:41:54 UTC
From: Bry Carling
Topic: 4845 Message: 4845

FOR SALE:

More homebrew parts delight...
A group of 8 unusual tube sockets and one male plug.
Most of these appear to be for compactron tubes as noted.

All are new and unused except one.

Two 12-pin sockets - new
One 11-pin socket - new
One 11-pin plug - new
One 11-pin socket - used
Two 9-pin sockets, new (one missing a pin, easily replaced from
a smaller donor socket)

One larger vented socket, sems to be a 4X150A style socket.

I don't want to ship these out separately, so will sell the entire group
for $24.00 plus shipping.

[Non-text portions of this message have been removed]

4846. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-23 20:49:51 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4846

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

4847. Re: Drake TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-24 18:00:28 UTC
From: ljunggren.peter
Topic: 4813 Message: 4847

Hi everyone

A follow up on my TR3. It's working fine now, turned out that
C3 100uF in my AC4 was bad, voltage dropped in the 250V line
to under 220V under load, on higher bands 15, 10 and on 40 even as
low as 216V. Replaced it and now a stable 250V. I'm going to replace
the others to to be on the safe side.

I really enjoy listening to my TR3, it's a fine radio.

Thanks for all the help and hope to hear you on the bands.

73 de SM7ZDE //Peter

--- In DrakeRadio@yahoogroups.com, "ljunggren.peter" <ljunggren.peter@...> wrote:
>
> Garey
>
> Measured the voltage on OA2 (V20) under load today.
>
> 80M 148,9 VDC
> 40M 150,1 VDC
> 20M 149,0 VDC
> 15M 150,0 VDC
>
> On 10M it was unstable, from 138 to 150 VDC,
> finally it stabilized around 150 there too.
> No visible light inside on 15 and 10M.
>
> Richard
>
> Did a double, even a triple check on the two
> wirewound resistors R110 and R112, found a really
> bad solderjoint on R112, eletrically it measured ok but
> it might be a source for problems. Resoldered it.
> Thanks for info!
>
> 73 de SM7ZDE //Peter
>

4848. Re: [DrakeRadio] looking for a trade:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-25 21:26:03 UTC
From: Howard T
Topic: 4836 Message: 4848

Hello Yash,
Did you find your trade? I have a nice C line but I don't think that's what you wanted, huh?

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 15, 2011 10:15 AM
Subject: [DrakeRadio] looking for a trade:

Have a nice Kenwood ts-480sat,would like to work a trade for a Drake A or B line. Looking for a fully functional pair,no bench jobs. Need not be collector quality, but nice. The 480sat is in very nice condition,all manuals,boxs,cables and head mounts included.No issues of any kind. cosmetics 9/10.
thanks
dale wt4t

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4849. Re: [DrakeRadio] looking for a trade:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-25 21:31:33 UTC
From: yash@aol.com
Topic: 4836 Message: 4849

Howard
tell me about your c-line,you never know.
thanks
dale wt4t

-----Original Message-----
From: Howard T <howard-t@traxlerenterprises.com>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jan 25, 2011 4:26 pm
Subject: Re: [DrakeRadio] looking for a trade:

Hello Yash,
Did you find your trade? I have a nice C line but I don't think that's what you wanted, huh?

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 15, 2011 10:15 AM
Subject: [DrakeRadio] looking for a trade:

Have a nice Kenwood ts-480sat,would like to work a trade for a Drake A or B line. Looking for a fully functional pair,no bench jobs. Need not be collector quality, but nice. The 480sat is in very nice condition,all manuals,boxs,cables and head mounts included.No issues of any kind. cosmetics 9/10.
thanks
dale wt4t

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4850. REDUCED: USA Made Power Resistors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-26 12:53:49 UTC
From: Bry Carling
Topic: 4850 Message: 4850

FOR SALE: USA made Power Resistors

Suitable for bleeder resistors in HV power supplies, etc.
These are good quality, new old stock parts. QTY 1 each.

Now reduced - $6.00 to $18.00 each.

Picture and ordering page at:
http://www.af4k.com/resistors.htm

50,000 ohms at 100 watts
25,000 ohms w/slider at 100 watts
25,000 ohms at 100 watts
25,000 ohms at 75 watts
25,000 ohms at 50 watts
24,000 ohms at 72 watts
20,000 ohms at 100 watts
20,000 ohms at 50 watts
18,000 ohms at 86 watts
18,000 ohms at 55 watts
16,000 ohms at 50 watts
15,000 ohms at 120 watts
15,000 ohms at 72 watts
14,000 ohms at 50 watts (QTY 2)
12,000 ohms at 116 watts
12,000 ohms at 75 watts
12,000 ohms at 68 watts
12,000 ohms at 40 watts
12,000 ohms at 30 watts

Picture and ordering page at:
http://www.af4k.com/resistors.htm

[Non-text portions of this message have been removed]

4851. Re: [DrakeRadio] looking for a trade:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-26 14:18:55 UTC
From: Howard T
Topic: 4836 Message: 4851

Not sure about letting it go, but it consists of:

T-4xC
R-4C w/all filters and two extra crystals for 10M and one for 160M
Transmitter and receiver recently gone over by a well-respected Drake fixer.
MS-4
AC-4 with R upgrade

I really love my Drakes and use them all the time. Firmly hesitate to let them go, unless possibly ....

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, January 25, 2011 3:31 PM
Subject: Re: [DrakeRadio] looking for a trade:

Howard
tell me about your c-line,you never know.
thanks
dale wt4t

-----Original Message-----
From: Howard T <howard-t@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jan 25, 2011 4:26 pm
Subject: Re: [DrakeRadio] looking for a trade:

Hello Yash,
Did you find your trade? I have a nice C line but I don't think that's what you wanted, huh?

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 15, 2011 10:15 AM
Subject: [DrakeRadio] looking for a trade:

Have a nice Kenwood ts-480sat,would like to work a trade for a Drake A or B line. Looking for a fully functional pair,no bench jobs. Need not be collector quality, but nice. The 480sat is in very nice condition,all manuals,boxs,cables and head mounts included.No issues of any kind. cosmetics 9/10.
thanks
dale wt4t

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4852. Re: [DrakeRadio] looking for a trade:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-01-26 15:54:34 UTC
From: yash@aol.com
Topic: 4836 Message: 4852

Howard
I just bought a B-line yesterday,so your C-line is safe from me.
thanks
dale wt4t

-----Original Message-----
From: Howard T <howard-t@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, Jan 26, 2011 9:18 am
Subject: Re: [DrakeRadio] looking for a trade:

Not sure about letting it go, but it consists of:

T-4xC
R-4C w/all filters and two extra crystals for 10M and one for 160M
Transmitter and receiver recently gone over by a well-respected Drake fixer.
MS-4
AC-4 with R upgrade

I really love my Drakes and use them all the time. Firmly hesitate to let them go, unless possibly ....

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, January 25, 2011 3:31 PM
Subject: Re: [DrakeRadio] looking for a trade:

Howard
tell me about your c-line,you never know.
thanks
dale wt4t

-----Original Message-----
From: Howard T <howard-t@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jan 25, 2011 4:26 pm
Subject: Re: [DrakeRadio] looking for a trade:

Hello Yash,
Did you find your trade? I have a nice C line but I don't think that's what you wanted, huh?

The Other Howard, WA9RYF
----- Original Message -----
From: yash@...

To: DrakeRadio@yahoogroups.com
Sent: Saturday, January 15, 2011 10:15 AM
Subject: [DrakeRadio] looking for a trade:

Have a nice Kenwood ts-480sat,would like to work a trade for a Drake A or B line. Looking for a fully functional pair,no bench jobs. Need not be collector quality, but nice. The 480sat is in very nice condition,all manuals,boxs,cables and head mounts included.No issues of any kind. cosmetics 9/10.
thanks
dale wt4t

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[Non-text portions of this message have been removed]

4853. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-29 22:32:21 UTC
From: Garey Barrell
Topic: 993 Message: 4853

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, A, B and C
Lines, 2-C / 2-NT and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

4854. Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-01 19:34:29 UTC
From: Craig Roberts
Topic: 4837 Message: 4854

I bought an extra TR7 as a backup, just in case...

Well, now BOTH of them are out of commission. Grrrr.

The latest failure went like this:

1. During a normal transmission, the display went haywire. I unkeyed the rig and cycled the RCT switch (which had seemed a little flaky lately, even though it had been thoroughly cleaned recently).

2. I keyed the rig again. The output meter pegged. I backed off the output to zero and keyed again. The ALC LED lit and the meter pegged again (there was no ALC action at all). I detected the unmistakable smell of a frying resistor and shut down the rig.

I have yet to find the charred component, but I haven't had the radio apart yet. The smell seems to be centered around the ALC board or final amp brick. This radio has been thoroughly serviced twice in the last year and appears never to have been abused. (In fact, it looks near new inside and out).

Whaddya think? (My other radio doesn't transmit, either -- but its failure seems more like a driver or PIN diode problem).

I love my TR7s but, I gotta tell ya, this is getting very frustrating.

73,
Craig
W3CRR

4855. Re: [DrakeRadio] Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 03:23:07 UTC
From: Jim Shorney
Topic: 4837 Message: 4855

I've been pondering this. It almost seems like you have multiple different problems. The display problem suggests intermittent Molex connectors, or perhaps the DC-DC converter power supply or a different power problem of some sort. The pegged meter sounds like PA deck oscillation. The burned smell, maybe PIN diodes or the aforementioned DC-DC power suppy. All areas to look at.

In the past, it seems that a lot of strange 7-line problems can be cured by pulling all of the PC boards one at a time, cleaning and DeOxiting the Molex connectors (check the female connectors for tension too), and re-seating. Also, failure of the large filter cap on the DC-DC power supply board can cause strange problems. Replace it with a modern 105C temperature rated cap as preventative maintenance while you have the rig apart. PA deck oscillation can be caused by excessive predriver gain, but this usually only shows up on the 40 Meter band segment; I've also seen leaky driver transistors cause it. Check the base voltage on the driver transistors in RX, it should be 0 volts. If it's anything even remotely approaching 0.6, you have leakage. The PA deck can be removed as a unit, without disconnecting any wires, and set on top of the radio by removing four screws on the right side of the rig. Check the PIN diodes as well, there are procedures on wb4hfn.com and the Drakelist web site.

I hope this helps.

73

-Jim

On Tue, 01 Feb 2011 14:34:29 -0500, Craig Roberts wrote:

>I bought an extra TR7 as a backup, just in case...
>
>Well, now BOTH of them are out of commission. Grrrr.
>
>The latest failure went like this:
>
>1. During a normal transmission, the display went haywire. I unkeyed
>the rig and cycled the RCT switch (which had seemed a little flaky
>lately, even though it had been thoroughly cleaned recently).
>
>2. I keyed the rig again. The output meter pegged. I backed off the
>output to zero and keyed again. The ALC LED lit and the meter pegged
>again (there was no ALC action at all). I detected the unmistakable
>smell of a frying resistor and shut down the rig.
>
>I have yet to find the charred component, but I haven't had the radio
>apart yet. The smell seems to be centered around the ALC board or final
>amp brick. This radio has been thoroughly serviced twice in the last

>year and appears never to have been abused. (In fact, it looks near new
>inside and out).
>
>Whaddya think? (My other radio doesn't transmit, either -- but its
>failure seems more like a driver or PIN diode problem).
>
>I love my TR7s but, I gotta tell ya, this is getting very frustrating.
>
>73,
>Craig
>W3CRR
>
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4856. Re: Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 14:10:25 UTC
From: Dave Drake
Topic: 4837 Message: 4856

Craig,
First question: Do you have a service manual?

If you do, even the original version, (there were two), find the traces on the motherboard that are 10v lines and check to see if the rig has proper voltage. Also then check the other traces for proper voltage in both rx and tx.

On the PA brick, make sure the predriver is backed off of maximum a bit. If it is at max, then you may have another problem lurking. Yes, pin diodes can be a problem and are very difficult to get to. It would be best to leave that to someone experienced at replaceing them.

My experience is like Jims, that the very first thing to do when you receive your new/old TR7 is to remove every board and clean contacts. Also clean the molex connectors on all plugs. Once you have done this, you can then reasonably trouble shoot any real problems. However, it all starts from the power supply board. Jim is also correct with the capacitor on the power supply board. The PS7 does not provide very clean DC, and the power supply board finishes the job. Thats the way Drake designed it.

I would suggest if you do not have a service manual, you try to obtain one to go much further. If you are not inclined to really dig in, then I would suggest you send the rig (s) to a good Drake service man to repair and get up and running. There are several listed on Ron's website (wb4hfn) as well as Ron himself. A couple more over around the Dayton area/SW Ohio. Jeff Covelli up near Clevelend. I will say if you send it to any of these guys they'll stand behind their work and provide phone support to help you out of any further issues.

Aligned properly, a TR7 is still an excellent ham radio both in receive quality and transmit audio quality. I am continually amazed at how it compares to newer radios such as a TT Omni VII and Icom 7200 (at my location in daily use).

Good luck,
David
Wd9cmd

[Non-text portions of this message have been removed]

4857. Re: Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 17:07:09 UTC
From: Craig Roberts
Topic: 4837 Message: 4857

Many thanks to Jim and Dave for their suggestions. I have the afternoon off today - a real rarity -- so I will dig into the rig a bit. (I do have a service manual).

This radio's been repaired by Jeff a couple of times for transmit problems; once just before I bought the radio a couple of years ago and once about six months ago. The last service included PIN diode replacement and a new T/R relay (which, in fact, was the needed repair). Jeff's performed his usual beautiful service and I am confident that the Molex connectors are clean. Neverthless, I do pull and re-seat the boards periodically "just in case."

I removed the power supply board last night and -- by golly -- I think the 220 uf electrolytic is the component that fried. It is not charred, but the overheated smell seems to be coming from it. Anyone who's experienced burned components knows that the unmistakable odor tends to permeate everything around it and is surprisingly hard to pinpoint -- though resistors that burst into flame are easier to find :-) .

Anyway, I'll be replacing that cap go from there with voltage measurements, etc, as needed.

This particular TR7 is in such beautiful shape that it's misleading. I keep forgetting that's it is over 30 years old and -- naturally -- prone to breakdowns from time to time.

I'll keep y'all posted.

Thanks again.

73,

Craig
W3CRR

4858. Re: [DrakeRadio] Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 20:50:20 UTC
From: Craig Roberts
Topic: 4837 Message: 4858

Some progress and a new mystery.

Replacement of the 22 uf electrolytic on the power supply board indeed fixed the display problem. The radio has awakened from the dead and it now receives normally. (I did adjust the power supply board voltages).

However, when the transmitter is keyed into a dummy load now, it acts as if it's working into an open circuit. Forward and reflected powers indicate identically, there's no ALC indication and no output.

Hmmmm. Where do I go from here?

Thanks again,

Craig
W3CRR

4859. TR-3 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 23:19:31 UTC
From: radiomanradioman
Topic: 4859 Message: 4859

anyone have a original TR-3 schematic ? the one I have appears to be a 3rd or 4th generation and is almost to the point of being unreadable .
andrew
kd5pnt

4860. Re: [DrakeRadio] TR-3 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-02 23:33:10 UTC
From: Garey Barrell
Topic: 4859 Message: 4860

Andrew -

There are at least two versions. Is your s/n over or under 3001?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

radiomanradioman wrote:
> anyone have a original TR-3 schematic ? the one I have appears to be a 3rd or 4th generation and is almost to the point of being unreadable .
> andrew
> kd5pnt
>
>
>

4861. Re: TR-3 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 00:07:46 UTC
From: radiomanradioman
Topic: 4859 Message: 4861

no idea . does not seem to have a S/N plate on it . where should the number be located ?

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Andrew -
>
> There are at least two versions. Is your s/n over or under 3001?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> radiomanradioman wrote:
> > anyone have a original TR-3 schematic ? the one I have appears to be a 3rd or 4th generation and is almost to the point of being unreadable .
> > andrew
> > kd5pnt
> >
> >
> >
>

4862. 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 03:43:48 UTC
From: randyinaura
Topic: 4862 Message: 4862

When I plug in headphones (8 Ohm) to my Drake 2-B and turn the volume or RF gain way down, I hear 60 cycle hum. No hum is heard through the speaker when the headphones are not plugged in. Is this due to the fact that the headphones bandwidth is too wide, ie. to much low frequency response compared to the speaker in the 2-BQ? The specs on these headphones (Kenwood HS-5) list the low frequency -6dB point at 150 Hz. What's going on here?

4863. Re: [DrakeRadio] 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 04:00:47 UTC
From: Garey Barrell
Topic: 4862 Message: 4863

Those phones have extended low frequency response, AND they are far more sensitive than the speaker.

The AF amp in the 2-B runs 'wide open' gain, as do most receivers. The volume is controlled by adjusting the amount of audio to the input with the AF GAIN control. There is a certain amount of hum and noise inherent in any amplifier, so if you set the AF GAIN to about 10 o'clock you have a specific signal to noise ratio. This provides typical listening volume for a speaker.

Now, if you connect phones instead of the speaker, the phones are much more sensitive, (i.e., generate higher sound pressure for a given amount of signal applied,) requiring that you reduce the AF GAIN close to minimum to prevent blowing out your ears! Again, the hum and noise are constant and you have just reduced the signal, so the signal to noise ratio is worse and yet the phones still provide plenty of audio at the reduced AF GAIN setting.

So if the phones cause you to run the AF GAIN control near minimum, you'll hear that poorer s/n ratio. Easiest fix is to put a resistor in series with the headphone jack that requires you to turn the AF GAIN up to about 10 o'clock or a little more for comfortable listening level with the phones.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

randyinaura wrote:
> When I plug in headphones (8 Ohm) to my Drake 2-B and turn the volume or RF gain way down, I hear 60 cycle hum. No hum is heard through the speaker when the headphones are not plugged in. Is this due to the fact that the headphones bandwidth is too wide, ie. to much low frequency response compared to the speaker in the 2-BQ? The specs on these headphones (Kenwood HS-5) list the low frequency -6dB point at 150 Hz. What's going on here?
>
>

4864. Re: [DrakeRadio] 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 04:03:24 UTC
From: Richard Knoppow
Topic: 4862 Message: 4864

----- Original Message -----
From: "randyinaura" <rfb13@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 02, 2011 7:43 PM
Subject: [DrakeRadio] 60 Hz hum on 2-B

> When I plug in headphones (8 Ohm) to my Drake 2-B and turn
> the volume or RF gain way down, I hear 60 cycle hum. No
> hum is heard through the speaker when the headphones are
> not plugged in. Is this due to the fact that the
> headphones bandwidth is too wide, ie. to much low
> frequency response compared to the speaker in the 2-BQ?
> The specs on these headphones (Kenwood HS-5) list the low
> frequency -6dB point at 150 Hz. What's going on here?
>
I am not familiar with the 2B but I had a similar
problem on a Collins R-388/52J-3 receiver. _60_ hz hum, not
120Hz from the speaker (faint) and quite strong on low
impedance headphones. It was there even when the rectifier
tube was pulled out. After chasing some false leads I
discovered that the frame of the headphone jack was being
used as a ground return for something (never figured out
what). The panel had probably been repainted, at any rate
there was enough paint on the back and front to prevent the
frame from making good contact. The audio return was OK but
the AC being grounded at the frame was imposed on the audio.
Scraping the paint away at the back of the connector fixed
it as would have a toothed lockwasher there. My bet is that
the hum is there on the speaker too but much weaker than on
the phones. Try putting your ear right up against the
speaker. The cause is probably a bad ground return
somewhere. The general advice given for all older Drake
stuff (and many other rigs too) is to work all the screws
that might be used for making a ground return. That will
include all screws holding tube sockets, terminal strips,
printed circuit boards, etc. If that doesn't fix it try
wiggling wires, there may be a cold solder joint somewhere.
If the RX has a half-wave rectifier in it, to provide
bias for instance, check that because it _can_ produce 60hz
hum where a full wave rectifier or full wave bridge will
generate only 120hz and even harmonics.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

4865. Re: [DrakeRadio] Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 04:35:18 UTC
From: Jim Shorney
Topic: 4837 Message: 4865

On Wed, 02 Feb 2011 15:50:20 -0500, Craig Roberts wrote:

>However, when the transmitter is keyed into a dummy load now, it acts as
>if it's working into an open circuit. Forward and reflected powers
>indicate identically, there's no ALC indication and no output.
>
>Hmmmm. Where do I go from here?

Hmmm, that's an odd one. I would check Q307 and Q307, the +10 T and R switch transistors on the TX Exciter board.

I'm starting to feel like I'm the only one on this group.... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4866. Re: Another TR7 implosion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 14:39:35 UTC
From: Dave Drake
Topic: 4837 Message: 4866

Just an FYI, don't forget to make sure you have all correct voltages on the mother board, not just 10v trace.

Also, if the 10v line was off by very much, say a few tenths of a volt either way, you may need a full realignment !! The radio is very sensitive (in how well it functions and behaves) to the 10v circuit adjustment.

Its critical that voltages on all the motherboard traces are behaving properly in both transmit and receive.

If Jeff did work on the rig recently, just give him a call on the land line. I know he'll help you sort it out over the phone if possible.

Anyway,.....voltages on the motherboard....start there.

David
Wd9cmd

[Non-text portions of this message have been removed]

4867. Re: TR-3 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 17:27:14 UTC
From: ljunggren.peter
Topic: 4859 Message: 4867

Hi Andrew

You can try www.mods.dk and serch for the manual there. You have to register and are allowed one downlad/day for free I think.

I downloaded my manual from them and managed to enlarge the schematics to e readable size, european size is A3 and with good quality. It's a PDF document.

73 de SM7ZDE /Peter

--- In DrakeRadio@yahoogroups.com, "radiomanradioman" <radiomanl@...> wrote:
>
> no idea . does not seem to have a S/N plate on it . where should the number be located ?
>
> --- In DrakeRadio@...m, Garey Barrell <k4oah@> wrote:
> >
> > Andrew -
> >
> > There are at least two versions. Is your s/n over or under 3001?
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> > and TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > radiomanradioman wrote:
> > > anyone have a original TR-3 schematic ? the one I have appears to be a 3rd or 4th generation and is almost to the point of being unreadable .
> > > andrew
> > > kd5pnt
> > >
> > >
> > >
> > >
>

4868. Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 19:15:42 UTC
From: randyinaura
Topic: 4862 Message: 4868

> So if the phones cause you to run the AF GAIN control near minimum,
> you'll hear that poorer s/n ratio. Easiest fix is to put a resistor in
> series with the headphone jack that requires you to turn the AF GAIN up
> to about 10 o'clock or a little more for comfortable listening level
> with the phones.
>
> 73, Garey - K4OAH
> Glen Allen, VA

Garey,

Great idea. I forgot to mention that this effect is also present in my R-4A and in a Kenwood R-5000 but to a lesser extent. Maybe I should wire the resistor inside the headphone plug, especially if I can find a value that will work for all my receivers. Speaking of value, for the 2-B, to get me started, what decade are we talking? 10ohms, 100ohms, 1K?

Thanks for your help.

Randy - K8HRO

4869. Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 19:23:04 UTC
From: randyinaura
Topic: 4862 Message: 4869

Richard,

Thanks for your help. You're right in that there is some hum coming out of the speaker, but you have to be right on top of it and even at that it's barely detectable. At a comfortable listening position, one can't hear any hum. I think the fact that the audio amp runs wide open has as much to do with the problem than anything. This fact was pointed out by Garey in another reply to this thread. I'm going to try his suggestion of a series resistor to essentially make the headphones a higher impedance. Since the hum volume is constant independent of volume control level, I'll have to turn up the volume with the resistor in the circuit and that should take care of the problem. Thanks again for your input. Maybe it's time to follow your suggestions and perhaps even recap the power supply.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "randyinaura" <rfb13@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, February 02, 2011 7:43 PM
> Subject: [DrakeRadio] 60 Hz hum on 2-B
>
>
> > When I plug in headphones (8 Ohm) to my Drake 2-B and turn
> > the volume or RF gain way down, I hear 60 cycle hum. No
> > hum is heard through the speaker when the headphones are
> > not plugged in. Is this due to the fact that the
> > headphones bandwidth is too wide, ie. to much low
> > frequency response compared to the speaker in the 2-BQ?
> > The specs on these headphones (Kenwood HS-5) list the low
> > frequency -6dB point at 150 Hz. What's going on here?
> >
> I am not familiar with the 2B but I had a similar
> problem on a Collins R-388/52J-3 receiver. _60_ hz hum, not
> 120Hz from the speaker (faint) and quite strong on low
> impedance headphones. It was there even when the rectifier
> tube was pulled out. After chasing some false leads I
> discovered that the frame of the headphone jack was being
> used as a ground return for something (never figured out
> what). The panel had probably been repainted, at any rate
> there was enough paint on the back and front to prevent the
> frame from making good contact. The audio return was OK but
> the AC being grounded at the frame was imposed on the audio.
> Scraping the paint away at the back of the connector fixed
> it as would have a toothed lockwasher there. My bet is that

> the hum is there on the speaker too but much weaker than on
> the phones. Try putting your ear right up against the
> speaker. The cause is probably a bad ground return
> somewhere. The general advice given for all older Drake
> stuff (and many other rigs too) is to work all the screws
> that might be used for making a ground return. That will
> include all screws holding tube sockets, terminal strips,
> printed circuit boards, etc. If that doesn't fix it try
> wiggling wires, there may be a cold solder joint somewhere.
> If the RX has a half-wave rectifier in it, to provide
> bias for instance, check that because it _can_ produce 60hz
> hum where a full wave rectifier or full wave bridge will
> generate only 120hz and even harmonics.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

4870. R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 20:32:20 UTC
From: JC
Topic: 4870 Message: 4870

Can someone tell me the practical/technical difference between these three models. The R8B seems to go for much higher prices than the R8 or R8A. Is it worth the difference?
Tnx/73
Crit/K4BXN

4871. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 20:45:02 UTC
From: Don Cunningham
Topic: 4862 Message: 4871

Randy,
Try 100k if you have one. 1/8 or 1/4 watt is fine. I'm thinking that's what I found in my old "Drake" ones, hi. I think that will help your situation.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4872. Re: [DrakeRadio] R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 21:03:34 UTC
From: Garey Barrell
Topic: 4870 Message: 4872

Crit -

Not to me..... Depends upon what you want/need. If you need 1000 memories and need to scan them fast... Or if you need 'selectable' sideband synchronous detector for AM as opposed to what appears to be the same thing as in the "A". The description and specs appear identical to me.....

The best value for me is the "A".

Per Bill Frost>>

The differences between the R-8 and the R-8A and/or R-8B are as follows:

1. Mode and bandwidth can be selected with a single button press.
Programmable auto selection of the bandwidth when changing mode.

2. The dynamic range has been improved to 100 db.

3. The third order intercept point has been improved to +20dBm.

4. The frequency stability is ? 5ppm over -10 to +50 deg. C range.

5. 440 memories locations

6. Memory channels scan at about 40 channels per second.

7. A seven digit program name can be displayed on the front panel, Alphanumeric display.

8. The display and entry of frequencies can be made in kHz or MHz.

9. Front panel tilt uses a metal bail.

10. The time display can be programmed to remain on all the time. The R-8A has two event timers.

11. Expanded RS-232 control.

12. Improved AGC

13. A highpass audio filter has been added in the FM mode to reduce sub-audible tone squelch signals

14. Detachable power line cord.

The differences between the R-8A and the R-8B are as follows:

1. Selectable sideband synchronous detector

2. Faster scan

3. 1000 memories

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

JC wrote:
> Can someone tell me the practical/technical difference between these three models. The R8B seems to go for much higher prices than the R8 or R8A. Is it worth the difference?
> Tnx/73
> Crit/K4BXN
>
>
>

4873. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 21:06:02 UTC
From: Garey Barrell
Topic: 4862 Message: 4873

Randy -

I dunno, you're forming a voltage divider between the series resistor
and the 8 ohm phones so it's dependent upon the SPL (Sound Pressure
Level) or sensitivity of the phones. I'd start with a 1000 ohm! :-)
If you have a 10k or 100k or ... pot, clip lead it in place and adjust....

More modern receivers seem to be less susceptible to this, perhaps
designed for lo-Z phones, reducing AF gain at the PHONES jack, or ... ??

Let us know what value works!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

randyinaura wrote:
>> So if the phones cause you to run the AF GAIN control near minimum,
>> you'll hear that poorer s/n ratio. Easiest fix is to put a resistor in
>> series with the headphone jack that requires you to turn the AF GAIN up
>> to about 10 o'clock or a little more for comfortable listening level
>> with the phones.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>
> Garey,
>
> Great idea. I forgot to mention that this effect is also present in my R-4A and in a
Kenwood R-5000 but to a lesser extent. Maybe I should wire the resistor inside the
headphone plug, especially if I can find a value that will work for all my receivers.
Speaking of value, for the 2-B, to get me started, what decade are we talking? 10ohms,
100ohms, 1K?
>
> Thanks for your help.
>
> Randy - K8HRO
>
>
>

4874. Re: [DrakeRadio] R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 21:12:27 UTC
From: David Rogers
Topic: 4870 Message: 4874

There is a substantial difference between the 8 and the A -- in both circuit and convenience. I had an 8, thought the difference in price warranted upgrading to the A, which I did. I haven't regretted that. I recently had a chance to try a friend's 8 and I am ever more convinced that the small difference in price between the 8 and A (usually less than $150.00) makes the A worthwhile.

There were not so many changes between the A and B (mainly selectable sideband sync tuning, if I remember correctly) and the B sells for about double what a nice A sells for. I have never understood that and certainly have not been the least bit tempted to "upgrade".

David, WA7ZYQ

----- Original Message -----
From: JC
To: DrakeRadio@yahoogroups.com
Sent: Thursday, February 03, 2011 12:32 PM
Subject: [DrakeRadio] R8 vs R8A vs R8B

Can someone tell me the practical/technical difference between these three models. The R8B seems to go for much higher prices than the R8 or R8A. Is it worth the difference?
Tnx/73
Crit/K4BXN

[Non-text portions of this message have been removed]

4875. [DrakeRadio]R8 series vs R7/A series, was R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 21:32:26 UTC
From: Don Cunningham
Topic: 4875 Message: 4875

Since we are discussing receivers, what is the thinking of the "guru's" on which is the choice receiver, the R7 (or R7A) and the R8A?? I know there isn't syncronous AM on the R7, but what are the other features that might make the R8A superior??
Thanks,
Don, WB5HAK

[Non-text portions of this message have been removed]

4876. Re: [DrakeRadio]R8 series vs R7/A series, was R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 22:25:16 UTC
From: Garey Barrell
Topic: 4875 Message: 4876

Don -

I've never done a direct comparison, but I have an R-7 and an R-8A on my desk. A 'non-technical' opinion is that the '7 is the 'better' receiver for communications purposes. The '7 does have a 'synchro-phase' detector for AM which is essentially an Exalted Carrier, SSB system that appears to have preceded the 'synchronous' system.

Personally, I like the knobs and buttons on the '7 much better than the 'menu', 'multi-push' buttons of the '8. There are eleven double-function buttons with a twelfth 'shift' in the number pad, plus another six double/function buttons for controlling which VFO, Preamp or Antenna, AGC NB, Timer/Step, Clk/Freq / Lock. I admit that I have trouble every time I try to change something and end up in Memory mode or ... I 'really' don't like menus or "push this button and then push this one twice within five seconds." :-)

If you want remote control via RS-232, 440 memories, scanning capability then the '8A is for you. Mine sits on the desk and spends most all it's time on the AM radio band. To get on the air, I turn on the R-7 and TR-7 underneath it!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Since we are discussing receivers, what is the thinking of the "guru's" on which is the choice receiver, the R7 (or R7A) and the R8A?? I know there isn't syncronous AM on the R7, but what are the other features that might make the R8A superior??
> Thanks,
> Don, WB5HAK
>
>

4877. Re: [DrakeRadio]R8 series vs R7/A series, was R8 vs R8A vs R8B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 22:30:43 UTC
From: Don Cunningham
Topic: 4875 Message: 4877

Thanks, Garey, that was what I was looking for. I am getting the same about menus, with the 3 "major brands" sitting on my desk too. I ALWAYS manage to tap when I should hold and vice versa. I got lucky and bought the prototype 1544 that showed up on the "E" place, so with some wiring additionally, I can finally marry my R7/TR7 and RV75!!! I think that may replace 2 of the "major 3" here, hi. Again, thanks for the input, I hope others will join in as well.
73 from cold, snowy Oklahoma,
Don, WB5HAK

[Non-text portions of this message have been removed]

4878. Re: [DrakeRadio] Re: TR-3 schematic

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-03 23:39:52 UTC
From: Charles Rodecap
Topic: 4859 Message: 4878

Hi Andrew

I have a TR-3 schematic that I can have copied. This is for up to serial 1451A and has a number of 1018933001 on the page (not sure what that matches). I would have this put on an 11" x 17" page.

The serial should be located on the back lower left side of the chassis. The serial is a stamped on number.

Charlie

--- On Thu, 2/3/11, ljunggren.peter <ljunggren.peter@...> wrote:

From: ljunggren.peter <ljunggren.peter@yahoo.com>
Subject: [DrakeRadio] Re: TR-3 schematic
To: DrakeRadio@yahoogroups.com
Date: Thursday, February 3, 2011, 12:27 PM

Hi Andrew

You can try www.mods.dk and serch for the manual there. You have to register and are allowed one downlad/day for free I think.

I downloaded my manual from them and managed to enlarge the schematics

to e readable size, european size is A3 and with good quality. It's a

PDF document.

73 de SM7ZDE /Peter

--- In DrakeRadio@yahoogroups.com, "radiomanradioman" <radiomanl@...> wrote:

>

> no idea . does not seem to have a S/N plate on it . where should the number be located ?

>

> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:

> >

> > Andrew -

> >

> > There are at least two versions. Is your s/n over or under 3001?

> >

> > 73, Garey - K4OAH

> > Glen Allen, VA

> >

> > Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

> > and TR-4/C Service Supplement CDs

> > <www.k4oah.com>

> >

> >

> > radiomanradioman wrote:

> > > anyone have a original TR-3 schematic ? the one I have appears to be a 3rd or 4th generation and is almost to the point of being unreadable .

> > > andrew

> > > kd5pnt

> > >

> > >

> > >

> >

>

[Non-text portions of this message have been removed]

4879. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 00:03:58 UTC
From: Bob Macklin
Topic: 4862 Message: 4879

When you have hum that is independent of the volume control it is often power supply ripple. Check the power supply ripple on the output transformer with a scope.

If may just be a bad filter capacitor.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: randyinaura
To: DrakeRadio@yahoogroups.com
Sent: Thursday, February 03, 2011 11:23 AM
Subject: [DrakeRadio] Re: 60 Hz hum on 2-B

Richard,

Thanks for your help. You're right in that there is some hum coming out of the speaker, but you have to be right on top of it and even at that it's barely detectable. At a comfortable listening position, one can't hear any hum. I think the fact that the audio amp runs wide open has as much to do with the problem than anything. This fact was pointed out by Garey in another reply to this thread. I'm going to try his suggestion of a series resistor to essentially make the headphones a higher impedance. Since the hum volume is constant independent of volume control level, I'll have to turn up the volume with the resistor in the circuit and that should take care of the problem. Thanks again for your input. Maybe it's time to follow your suggestions and perhaps even recap the power supply.

73 de K8HRO - Randy

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "randyinaura" <rfb13@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, February 02, 2011 7:43 PM
> Subject: [DrakeRadio] 60 Hz hum on 2-B
>
>
> > When I plug in headphones (8 Ohm) to my Drake 2-B and turn
> > the volume or RF gain way down, I hear 60 cycle hum. No
> > hum is heard through the speaker when the headphones are
> > not plugged in. Is this due to the fact that the
> > headphones bandwidth is too wide, ie. to much low
> > frequency response compared to the speaker in the 2-BQ?
> > The specs on these headphones (Kenwood HS-5) list the low

> > frequency -6dB point at 150 Hz. What's going on here?
> >
> I am not familiar with the 2B but I had a similar
> problem on a Collins R-388/52J-3 receiver. _60_ hz hum, not
> 120Hz from the speaker (faint) and quite strong on low
> impedance headphones. It was there even when the rectifier
> tube was pulled out. After chasing some false leads I
> discovered that the frame of the headphone jack was being
> used as a ground return for something (never figured out
> what). The panel had probably been repainted, at any rate
> there was enough paint on the back and front to prevent the
> frame from making good contact. The audio return was OK but
> the AC being grounded at the frame was imposed on the audio.
> Scraping the paint away at the back of the connector fixed
> it as would have a toothed lockwasher there. My bet is that
> the hum is there on the speaker too but much weaker than on
> the phones. Try putting your ear right up against the
> speaker. The cause is probably a bad ground return
> somewhere. The general advice given for all older Drake
> stuff (and many other rigs too) is to work all the screws
> that might be used for making a ground return. That will
> include all screws holding tube sockets, terminal strips,
> printed circuit boards, etc. If that doesn't fix it try
> wiggling wires, there may be a cold solder joint somewhere.
> If the RX has a half-wave rectifier in it, to provide
> bias for instance, check that because it _can_ produce 60hz
> hum where a full wave rectifier or full wave bridge will
> generate only 120hz and even harmonics.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

[Non-text portions of this message have been removed]

4880. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 07:24:02 UTC
From: Richard Knoppow
Topic: 4862 Message: 4880

----- Original Message -----
From: "randyinaura" <rfb13@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, February 03, 2011 11:23 AM
Subject: [DrakeRadio] Re: 60 Hz hum on 2-B

> Richard,
>
> Thanks for your help. You're right in that there is some
> hum coming out of the speaker, but you have to be right on
> top of it and even at that it's barely detectable. At a
> comfortable listening position, one can't hear any hum. I
> think the fact that the audio amp runs wide open has as
> much to do with the problem than anything. This fact was
> pointed out by Garey in another reply to this thread. I'm
> going to try his suggestion of a series resistor to
> essentially make the headphones a higher impedance. Since
> the hum volume is constant independent of volume control
> level, I'll have to turn up the volume with the resistor
> in the circuit and that should take care of the problem.
> Thanks again for your input. Maybe it's time to follow
> your suggestions and perhaps even recap the power supply.
>
> 73 de K8HRO - Randy
>

If the RX is the same as my R4BX the headphone jack is
connected directly across the speaker leads, that means its
an 8 or is it 4 ohm output. In fact you can connect a
speaker there. Most old type phones had impedances of from
about 600 ohms for many military types to anywhere from
about 8K to 25K for magnetic types. While the high impedance
give them high sensitivity when used for crystal sets and
similar high impedance sources it gives low sensitivity when
connected to a speaker terminal. Modern Hi-Hi phones usually
have impedances close to speaker impedance, that is anywhere
from 8 to maybe 50 ohms so they have much greater output
than the old type phones.
You can pad down the output by putting the phones on a
series resistor similar to the impedance of old type phones,
say 10K. Or make an L pad with an 8 ohm resistor across the
jack and a series resistor of whatever value results in a
comfortable level, maybe anywhere from 2k to 10k.
Now, having said that, check the nature of the hum. If
its truely 60hz and not 120hz its more likely to be a hum

loop from the heater supply than power supply ripple. Where a full wave rectifier is used the hum ripple is 120hz. If its 120hz then it could be bad filter caps but that depends on the ripple level at the supply. If its 60hz then look around for bad grounds.
I can use low impedance phones on my R-4B without noticable hum. Your RX may be different but I would poke around tightening screws etc as I suggested. It may be that you can get the hum to disappear. If not, or if others with the same receiver say its normal, than pad the phones.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4881. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 07:25:39 UTC
From: Richard Knoppow
Topic: 4862 Message: 4881

----- Original Message -----
From: "randyinaura" <rfb13@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, February 03, 2011 11:23 AM
Subject: [DrakeRadio] Re: 60 Hz hum on 2-B

> Richard,
>
I forgot to say that 60hz hum can also come from a
heater to cathode leak in a tube. This will NOT show up on
tube testers, it can be found by substituting another tube.
Its not a very likely cause but easy enough to eliminate.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4882. Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 16:52:59 UTC
From: randyinaura
Topic: 4862 Message: 4882

Garey,

I used a 2.5K pot for my initial test. The signal to hum settles down nicely with 250 - 500 ohms in series. That results in a volume control setting of 10:00 to 12:00 for comfortable. I had a 310 ohm 1/4w resistor in the junk box, so I used that. It fit right in the headphone plug. It works just fine now. It also eliminates this problem on my R-4X as well. Thanks for the tip.

Maybe it's time to recap these old receivers of mine. They are still all original. Oh well, problem solved for now.

73 de K8HRO- Randy

> I dunno, you're forming a voltage divider between the series resistor
> and the 8 ohm phones so it's dependent upon the SPL (Sound Pressure
> Level) or sensitivity of the phones. I'd start with a 1000 ohm! :-)
> If you have a 10k or 100k or ... pot, clip lead it in place and adjust....
>
> More modern receivers seem to be less susceptible to this, perhaps
> designed for lo-Z phones, reducing AF gain at the PHONES jack, or ... ??
>
> Let us know what value works!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

4883. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 17:09:12 UTC
From: Garey Barrell
Topic: 4862 Message: 4883

Randy -

Great! Always nice when it's an easy fix.... :-)

Re your cap replacement. Here is a reply I just sent over on the Drakelist a little while ago.

>>>>>>>>
You'll get two sides (maybe more!) on this. The FACTS are ...

Electrolytic capacitors have a finite lifetime. Various sources give widely different _estimates_ of what this time 'is', and typically settle around 10 years in _typical_ environmental conditions, whatever those are. The cap has a paste that forms the dielectric, which contains water. Over time, this water evaporates resulting in a loss of insulating capabilities and/or capacity. Heat of course speeds up this evaporation, and depending upon how much stuff is piled on top of the radio, it can get pretty hot.

There are four main 'failure' conditions for an electrolytic. One is that the capacitance decreases considerably, another is that a 'series resistance' (presents as a resistor in series with the capacitor), another is it becomes 'open', usually as a result of a corroded internal lead, or, it just shorts out completely. All but the last one causes the power supply ripple to increase, (HUM,) and if the last one does happen, hopefully the power supply fuse will blow before the power transformer is destroyed! This last one is why the FIRST thing I do with a 'new' piece of vintage gear is check the fuse. I have found everything from the correct fuse, to a piece of #8 copper wire....

So obviously all of our Drake gear is on borrowed time if it has the original power supply caps. They may work for another ten years, or they may short out today. The choice is yours, 'do you feel lucky?', or are you a belt and suspenders kind of guy? If you feel lucky, just make sure the fuse is the RIGHT one. If B & S, check with Tom at hayseedhamfest.com. He has Twist-Lok caps that are a drop-in replacement and offers a complete kit that replaces ALL electrolytics in the various Drake radios.
>>>>>>>>>>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

randyinaura wrote:
> Garey,
>
> I used a 2.5K pot for my initial test. The signal to hum settles down nicely with 250 - 500 ohms in series. That results in a volume control setting of 10:00 to 12:00 for comfortable. I had a 310 ohm 1/4w resistor in the junk box, so I used that. It fit right in the headphone plug. It works just fine now. It also eliminates this problem on my R-4X as well. Thanks for the tip.
>
> Maybe it's time to recap these old receivers of mine. They are still all original. Oh well, problem solved for now.
>
> 73 de K8HRO- Randy
>
>
>
>> I dunno, you're forming a voltage divider between the series resistor
>> and the 8 ohm phones so it's dependent upon the SPL (Sound Pressure
>> Level) or sensitivity of the phones. I'd start with a 1000 ohm! :-)
>> If you have a 10k or 100k or ... pot, clip lead it in place and adjust....
>>
>> More modern receivers seem to be less susceptible to this, perhaps
>> designed for lo-Z phones, reducing AF gain at the PHONES jack, or ... ??
>>
>> Let us know what value works!
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>

4884. Re: [DrakeRadio] Re: 60 Hz hum on 2-B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-04 19:57:26 UTC
From: Richard Knoppow
Topic: 4862 Message: 4884

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, February 04, 2011 9:09 AM
Subject: Re: [DrakeRadio] Re: 60 Hz hum on 2-B

> Randy -
>
> Great! Always nice when it's an easy fix.... :-)
>
> Re your cap replacement. Here is a reply I just sent over
> on the
> Drakelist a little while ago.
>
> >>>>>>>>
> You'll get two sides (maybe more!) on this. The FACTS are
> ...
>
> Electrolytic capacitors have a finite lifetime. Various
> sources give
> widely different _estimates_ of what this time 'is', and
> typically
> settle around 10 years in _typical_ environmental
> conditions, whatever
> those are. The cap has a paste that forms the dielectric,
> which
> contains water. Over time, this water evaporates
> resulting in a loss of
> insulating capabilities and/or capacity. Heat of course
> speeds up this
> evaporation, and depending upon how much stuff is piled on
> top of the
> radio, it can get pretty hot.
>
> There are four main 'failure' conditions for an
> electrolytic. One is
> that the capacitance decreases considerably, another is
> that a 'series
> resistance' (presents as a resistor in series with the
> capacitor),
> another is it becomes 'open', usually as a result of a
> corroded internal
> lead, or, it just shorts out completely. All but the last
> one causes
> the power supply ripple to increase, (HUM,) and if the
```

> last one does
> happen, hopefully the power supply fuse will blow before
> the power
> transformer is destroyed! This last one is why the FIRST
> thing I do
> with a 'new' piece of vintage gear is check the fuse. I
> have found
> everything from the correct fuse, to a piece of #8 copper
> wire....
>
> So obviously all of our Drake gear is on borrowed time if
> it has the
> original power supply caps. They may work for another ten
> years, or
> they may short out today. The choice is yours, 'do you
> feel lucky?', or
> are you a belt and suspenders kind of guy? If you feel
> lucky, just make
> sure the fuse is the RIGHT one. If B & S, check with Tom
> at
> hayseedhamfest.com. He has Twist-Lok caps that are a
> drop-in
> replacement and offers a complete kit that replaces ALL
> electrolytics in
> the various Drake radios.
> >>>>>>>>>>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
Electrolytic caps won't last forever but the life seems
to vary over a very large range. I have equipment with caps
that are fifty years old and are still good, others fail
after only a few years. The difference is due partly to the
type and construction of the cap, and ambient temperature is
important, they don't like heat.
All capacitors have both series and parallel
resistance. While ESR or equivalent series resistance has
become a popular thing to test for parallel resistance may
be more important for electrolytics. Its also important for
any capacitor used for DC blocking, for instance coupling
caps in audio circuits. Parallel resistance is a measure of
how much DC the cap passes. Ideally, a capacitor should have
infinite parallel resistance but in practice they don't.
Parallel resistance generally will not show an indication on
conventional bridges and capacitance meters even when they

do measure series resistance. One way to measure parallel capacitance is to check the current throught the capacitor on a DC source. To do this you need a DC power supply, preferably an adjustable one, capable of delivering a voltage close to the operating voltage of the capacitor, although a valid reading can be gotten at a lower voltage. You also need a current meter capable of indicating micro-amps. The current from parallel resistance is also called leakage current.
A good plastic film cap should have such low leakage current that it will not even indicate on a sensitive meter. Old paper type caps should have about 5 micro-amps maximum. A good electrolytic with well-formed electrodes should meausure less than about 15 uA. In general, the leakage should trend down with time when a cap that has not recently been used is tested. That's because the electrodes are still forming. There are complex actions going on in most types of dielectrics that can cause the leakage reading to vary with time. It may take several minutes to obtain a final reading. A capacitor that measures good on a bridge where the dissipation factor (or ESR or Power Factor) is within limits may still be bad because the parallel resistance is not mesureed. Even when biased the reading may be false so its really necessry to measure the leakage either as current or on a device that measurers it as resistance (like a megger if the voltage is within the limits of the capacitor).
Some electrolytic caps drop in capacitance. This is due to the fact that one electrode is formed chemically. If the cap has not been used for some time this electrode tends to disappear. Sometimes operating the cap will re-form the plate, sometimes not. The other failure is developing such high leakage taht the cap is essentially shorted. That can be calamitous because it can burn out transformers, etc, if they are not protected. Running a power supply with a vacuum tube rectifier up on a Variac may not protect it because the filament of the rectfier has to reach a fairly high temperature before the tube begins to conduct and by that time it may be too late. The caps just have to be tested out of circuit if one is suspicious of them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4885. T4XC no output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-05 18:43:21 UTC
From: K4GM- George
Topic: 4885 Message: 4885

I turned on my trusty T-4XC a little while ago and it failed me! I will try to swap out a tube or two but here are my observations in case anyone might be able to point me to the fix.
1. The PTO appears to work fine because I can use it to operate the R-4C in transceive mode using the xmtr PTO. There is no transmit power
2. The sidetone works well and the radio keys.
3. The RF Tune will peak as it should.
4. There is no dip when tuning the plate. In fact there is a peak oddly enough.
5. Adjusting the Load control has no effect on plate current. Relative output is unchanged when adjusting the plate control.
6. These measurements were made loaded into a 50 ohm dummy load.

Hope I am lucky and it is only a tube. However I am seldom lucky; thus, I sent this email. Thanks to all who respond.
George K4GM

4886. Re: [DrakeRadio] T4XC no output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-05 19:39:55 UTC
From: Garey Barrell
Topic: 4885 Message: 4886

George -

If you set the T-4XC for 80M and tune the RF TUNE down around 6.5 on the 0-10 scale do you get any plate current in TUNE??

Since you say it controls the receiver ok in TRANSCEIVE, that means that the BAND oscillator and PTO and PreMixer stages are working ok.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

K4GM- George wrote:
> I turned on my trusty T-4XC a little while ago and it failed me! I
> will try to swap out a tube or two but here are my observations in case
> anyone might be able to point me to the fix.
> 1. The PTO appears to work fine because I can use it to operate the
> R-4C in transceive mode using the xmtr PTO. There is no transmit power
> 2. The sidetone works well and the radio keys.
> 3. The RF Tune will peak as it should.
> 4. There is no dip when tuning the plate. In fact there is a peak
> oddly enough.
> 5. Adjusting the Load control has no effect on plate current.
> Relative output is unchanged when adjusting the plate control.
> 6. These measurements were made loaded into a 50 ohm dummy load.
>
> Hope I am lucky and it is only a tube. However I am seldom lucky; thus,
> I sent this email. Thanks to all who respond.
> George K4GM
>
>

4887. RE: [DrakeRadio] T4XC no output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-05 23:22:14 UTC
From: Walter Milton
Topic: 4885 Message: 4887

George,

What is your bias when you key the T-4XC? You should have 70 ma of bias.

Walt KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Saturday, February 05, 2011 2:40 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] T4XC no output

George -

If you set the T-4XC for 80M and tune the RF TUNE down around 6.5 on the 0-10 scale do you get any plate current in TUNE??

Since you say it controls the receiver ok in TRANSCEIVE, that means that the BAND oscillator and PTO and PreMixer stages are working ok.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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K4GM- George wrote:
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> will try to swap out a tube or two but here are my observations in case
> anyone might be able to point me to the fix.
> 1. The PTO appears to work fine because I can use it to operate the
> R-4C in transceive mode using the xmtr PTO. There is no transmit power
> 2. The sidetone works well and the radio keys.
> 3. The RF Tune will peak as it should.
> 4. There is no dip when tuning the plate. In fact there is a peak
> oddly enough.
> 5. Adjusting the Load control has no effect on plate current.
> Relative output is unchanged when adjusting the plate control.
> 6. These measurements were made loaded into a 50 ohm dummy load.
>
> Hope I am lucky and it is only a tube. However I am seldom lucky; thus,
> I sent this email. Thanks to all who respond.
> George K4GM
>
>

[Non-text portions of this message have been removed]

4888. FS: Drake receiver $145.00

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 03:05:49 UTC
From: Bry Carling
Topic: 4888 Message: 4888

FOR SALE: R.L. Drake Company Model 1280 / PRN-1000 Shortwave
Receiver

Desktop shortwave receiver. Excellent working condition. Looks like new.
Covers 100 kHz to 30.000 MHz continuous.
Sensitivity < 2.0 uV for 10 dB S+N/N. Has readout to nearest 1 kHz.
Selectivity
5.5kHz at -6 dB and 12 kHz at -60 dB. First i.f. 45 MHz, and second i.f. 455
kHz.
Tuning steps are: fast 5kHz, slow, 1 kHz. Audio output 700 mW. Has
headphone jack.
Powered from 12V or use the supplied Wall wart for 120V AC operation
(included.)

Synthesized, Microprocessor Controlled Tuning For Enhanced Reception.
Easy Tuning With Tuning Dial, Up/Down Buttons, Or Direct Frequency Entry
Via Keypad.
Bright LED Display Indicates Frequency. This large green digital display is
easy to read in any lighting situation. Receiver a built-in speaker, front-firing.
Has signal strength indicator and RF gain control switch.

Weight 4.7 lbs. Dimensions: 10-7/8" W x 4-3/8" H x 7-5/8" D

This is a USA MADE, General Coverage receiver also known as model
1280.
MINT condition. Great little Drake receiver... Similar to the Drake SW1
receiver.

Available for $145.00 plus shipping

Picture and details here:

http://www.af4k.com/radios.htm

[Non-text portions of this message have been removed]

4889. B-line service

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 14:13:35 UTC
From: yash@aol.com
Topic: 4889 Message: 4889

Would like to send the B-line out for service,alignment and a good go thru. Any suggestions as to who to send them to? I'am in sw Florida.
thanks
dale wt4t

[Non-text portions of this message have been removed]

4890. Re: [DrakeRadio] T4XC no output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 15:22:38 UTC
From: K4GM- George
Topic: 4885 Message: 4890

The bias is good. The radio started working again so will wait until it goes out again.
73, George K4GM

On 2/5/2011 23:22, Walter Milton wrote:
>
> George,
>
> What is your bias when you key the T-4XC? You should have 70 ma of bias.
>
> Walt KA2NJF
>
> From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> [mailto:DrakeRadio@yahoogroups.com
> <mailto:DrakeRadio%40yahoogroups.com>] On
> Behalf Of Garey Barrell
> Sent: Saturday, February 05, 2011 2:40 PM
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> Subject: Re: [DrakeRadio] T4XC no output
>
>
> George -
>
> If you set the T-4XC for 80M and tune the RF TUNE down around 6.5 on the
> 0-10 scale do you get any plate current in TUNE??
>
> Since you say it controls the receiver ok in TRANSCEIVE, that means that
> the BAND oscillator and PTO and PreMixer stages are working ok.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> K4GM- George wrote:
> > I turned on my trusty T-4XC a little while ago and it failed me! I
> > will try to swap out a tube or two but here are my observations in case
> > anyone might be able to point me to the fix.
> > 1. The PTO appears to work fine because I can use it to operate the
> > R-4C in transceive mode using the xmtr PTO. There is no transmit power
> > 2. The sidetone works well and the radio keys.
> > 3. The RF Tune will peak as it should.
> > 4. There is no dip when tuning the plate. In fact there is a peak

> > oddly enough.
> > 5. Adjusting the Load control has no effect on plate current.
> > Relative output is unchanged when adjusting the plate control.
> > 6. These measurements were made loaded into a 50 ohm dummy load.
> >
> > Hope I am lucky and it is only a tube. However I am seldom lucky; thus,
> > I sent this email. Thanks to all who respond.
> > George K4GM
> >
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

4891. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 20:19:18 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4891

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

4892. Re: [DrakeRadio] B-line service

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 21:50:38 UTC
From: Dan Galligan
Topic: 4889 Message: 4892

I would send my stuff to NOBODY other than Jeff Covelli, WA8SAJ. Best small tube radio tech in the country, as far as I am concerned. He did my "B" Line and my Kenwood 599 Twins to perfection, and as far as I am concerned there is no one else.
73,
Dan
W3RXO/W6

4893. RE: [DrakeRadio] B-line service

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 22:14:13 UTC
From: Joel Levy
Topic: 4889 Message: 4893

I agree 100% - his hourly charge is very reasonable.

73, Joel AE2JL

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Dan Galligan
Sent: Sunday, February 06, 2011 4:51 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] B-line service

I would send my stuff to NOBODY other than Jeff Covelli, WA8SAJ. Best small tube radio tech in the country, as far as I am concerned. He did my "B" Line and my Kenwood 599 Twins to perfection, and as far as I am concerned there is no one else.
73,
Dan
W3RXO/W6

[Non-text portions of this message have been removed]

4894. Another TR7 implosion cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 22:56:52 UTC
From: Craig Roberts
Topic: 4837 Message: 4894

Jim -- you were absolutely correct.

Q307 and R363 on the Transmitter Exciter Board were fried -- literally - thus killing the T/R switching. It appears as if the 220 uf electrolytic on the Power Supply Board failed, sending unpleasantness down the +10V line. Replacing the three components mentioned has restored the radio to normal operation (at least for the time being).

Thanks very much!

73,
Craig
W3CRR

4895. Re: [DrakeRadio] Another TR7 implosion cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-06 23:42:25 UTC
From: Jim Shorney
Topic: 4837 Message: 4895

I'm glad that you got it going, Craig!

I'll say it again, for anyone within reading distance, replace that 220 uF cap as preventative maintenance! That is probably the one cap in the radio that is under the most stress, strange and bad things can happen when it fails (or even begins to fail). These caps are 30 years old now, it's time.

73

-Jim

On Sun, 06 Feb 2011 17:56:52 -0500, Craig Roberts wrote:

>Jim -- you were absolutely correct.
>
>Q307 and R363 on the Transmitter Exciter Board were fried -- literally -
>thus killing the T/R switching. It appears as if the 220 uf electrolytic
>on the Power Supply Board failed, sending unpleasantness down the +10V
>line. Replacing the three components mentioned has restored the radio
>to normal operation (at least for the time being).
>
>Thanks very much!
>
>73,
>Craig
>W3CRR
>
>
>
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4896. Re: [DrakeRadio] Another TR7 implosion cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 00:47:36 UTC
From: Craig Roberts
Topic: 4837 Message: 4896

Heed Jim's advice. That cap was one of those little things I was "going
to get to" but , somehow, never did. I just feel very lucky the damage
its failure caused wasn't worse.

73,

Craig
W3CRR

On 2/6/2011 6:42 PM, Jim Shorney wrote:
>
> I'm glad that you got it going, Craig!
>
> I'll say it again, for anyone within reading distance, replace that
> 220 uF cap
> as preventative maintenance! That is probably the one cap in the radio
> that is
> under the most stress, strange and bad things can happen when it fails
> (or even
> begins to fail). These caps are 30 years old now, it's time.
>
> 73
>
> -Jim
>
> On Sun, 06 Feb 2011 17:56:52 -0500, Craig Roberts wrote:
>
> >Jim -- you were absolutely correct.
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> >Q307 and R363 on the Transmitter Exciter Board were fried -- literally -
> >thus killing the T/R switching. It appears as if the 220 uf electrolytic
> >on the Power Supply Board failed, sending unpleasantness down the +10V
> >line. Replacing the three components mentioned has restored the radio
> >to normal operation (at least for the time being).
> >
> >Thanks very much!
> >
> >73,
> >Craig
> >W3CRR
> >
> >
> >
> >
> >
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>

> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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>
>

[Non-text portions of this message have been removed]

4897. TR7 Electrolytics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 01:19:58 UTC
From: Don Cunningham
Topic: 4897 Message: 4897

I am starting to wonder if one should start replacing some electrolytics in the TR7 as we do in the older tube Drakes?? Wow, where would you stop on the TR7???
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4898. Re: [DrakeRadio] TR7 Electrolytics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 01:27:22 UTC
From: Jim Shorney
Topic: 4897 Message: 4898

On Sun, 6 Feb 2011 19:19:58 -0600, Don Cunningham wrote:

>I am starting to wonder if one should start replacing some electrolytics in the TR7 as we do in the older tube Drakes?? Wow, where would you stop on the TR7???

I haven't noticed any trouble with any but that 220 uF on the PS board. I'm a proponent of "if it ain't broke, don't fix it". It would still be an interesting experiment, though, to document the results of cap changes. If I were going to go to the trouble, I would use high quality parts rated for 105C temperature. Not that it ever gets that hot inside the TR-7, but 105C caps are built better and generally last longer than 85C caps.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4899. Re: [DrakeRadio] TR7 Electrolytics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 01:29:58 UTC
From: Don Cunningham
Topic: 4897 Message: 4899

I will replace the 220uf cap in mine, likely with a higher voltage one 105c temp rating too ASAP. If any of the guys regularly doing repairs find other stressed ones, I hope they will advise us!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4900. TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 18:25:40 UTC
From: Paul Kraemer
Topic: 985 Message: 4900

I am looking for source for a new poished insert for the vfo knob and source for replacement for one of the small Drake knobs as used on TR4 and other models

Thanks
Paul K0UYA

4901. RE: [DrakeRadio] TR4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-07 19:01:29 UTC
From: John Page
Topic: 985 Message: 4901

Check with Charlie,K3ICH

John Page K4KWM Hollow State since 1953 (ex W8PKU,N8BLB,NA8O)

> To: DrakeRadio@yahoogroups.com; drake@...
> From: elespe@...
> Date: Mon, 7 Feb 2011 12:25:40 -0600
> Subject: [DrakeRadio] TR4C
>
> I am looking for source for a new poished insert for the vfo knob and source
> for replacement for one of the small Drake knobs as used on TR4 and other
> models
>
> Thanks
> Paul K0UYA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4902. Another TR7 implosion returns!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-08 19:19:36 UTC
From: Craig Roberts
Topic: 4837 Message: 4902

Shucks! I thought I had it.

After replacing the 220 uf electrolytic on the power supply board and a fried switching transistor and associated components on the Transmit Exciter board late yesterday, all seemed well. Receive and transmit were normal in all modes and a simple tweaking of the carrier null and power supply board voltage put everything in order quickly. The radio acted just fine for a couple of hours.

Then -- after several faultless CW QSOs on 40 meters, I switched modes to SSB. The radio wouldn't transmit (even though SSB had worked fine earlier in the evening). On receive, the display jumped to the dreaded 17.000 MHz range, squirreled around a bit and finally settled on 17.650 or so with the receiver dead. Keying the radio on CW returned it to normal transmit operation in the 7 MHz band in that mode, but releasing the key continued to result in an incorrect, out-of-band display and a dead receiver.

Apparently, the T/R transistors(s) on the transmit exciter board are gone again -- but freezing the rig in the transmit mode this time.

I am completely at a loss here. I fear it's time to break out the bubble wrap (again).

4903. Re: [DrakeRadio] Another TR7 implosion returns!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-08 21:33:01 UTC
From: Garey Barrell
Topic: 4837 Message: 4903

Craig -

The 17 MHz output just means the low band PLL is unlocked.

When you were working on the radio did you happen to measure the +24V bus? Unlocked PLLs that 'sometimes' lock are often an indication of low +24 V. If you switch to 20M or above does the frequency lock, or does it wander up to about 32 MHz?

The transistor 'fuses' on the Transmit Exciter board are just that. Totally unprotected and even a momentary short or overload on the 10R or 10T bus will kill one.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
> Shucks! I thought I had it.
>
> After replacing the 220 uf electrolytic on the power supply board and a
> fried switching transistor and associated components on the Transmit
> Exciter board late yesterday, all seemed well. Receive and transmit
> were normal in all modes and a simple tweaking of the carrier null and
> power supply board voltage put everything in order quickly. The radio
> acted just fine for a couple of hours.
>
> Then -- after several faultless CW QSOs on 40 meters, I switched modes
> to SSB. The radio wouldn't transmit (even though SSB had worked fine
> earlier in the evening). On receive, the display jumped to the dreaded
> 17.000 MHz range, squirreled around a bit and finally settled on 17.650
> or so with the receiver dead. Keying the radio on CW returned it to
> normal transmit operation in the 7 MHz band in that mode, but releasing
> the key continued to result in an incorrect, out-of-band display and a
> dead receiver.
>
> Apparently, the T/R transistors(s) on the transmit exciter board are
> gone again -- but freezing the rig in the transmit mode this time.
>
> I am completely at a loss here. I fear it's time to break out the
> bubble wrap (again).
>
>

>

4904. Re: [DrakeRadio] Another TR7 implosion returns!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-08 23:08:30 UTC
From: Craig Roberts
Topic: 4837 Message: 4904

Garey Barrell wrote:"If you switch to 20M or above does the frequency
lock, or does
it wander up to about 32 MHz?"

Yup -- it does wander up to 32 MHz or thereabouts on the higher bands.

Convinced my problem stemmed from the 220 uf electrolytic and the 10 V
line alone, I did NOT check the 24 volt line (foolish me). It could be,
I suppose, that another problem has befallen the power supply board.

I'll let you know.

Thanks very much, Garey.

73,

Craig
W3CRR

,
>
>
> The 17 MHz output just means the low band PLL is unlocked.
>
> When you were working on the radio did you happen to measure the +24V
> bus? Unlocked PLLs that 'sometimes' lock are often an indication of low
> +24 V.
>
> The transistor 'fuses' on the Transmit Exciter board are just that.
> Totally unprotected and even a momentary short or overload on the 10R or
> 10T bus will kill one.
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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
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> Craig Roberts wrote:
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> >
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> > gone again -- but freezing the rig in the transmit mode this time.
> >
> > I am completely at a loss here. I fear it's time to break out the
> > bubble wrap (again).
> >
> >
> >
>
>

[Non-text portions of this message have been removed]

4905. Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-09 23:34:31 UTC
From: Fraser
Topic: 4905 Message: 4905

Quick introduction, my name is Fraser, W3UTD and I just acquired a TR-3. I wanted something as a project, with no solid state devices. The rig is in quite good shape, some corrosion on the copper chassis, but at least everything is there.

I've been through it, finding and listing capacitors and resistors for replacement, but I'm having trouble finding on the schematic what appears to be three carbon comp resistors paralleled around a wire wound, not factory I would suspect. It measures 1.2 Ohms and is situated at the rear of the chassis, underneath and near the power plug.

One lead goes up top and comes out underneath the relay somewhere. The other lead goes to a feed through to another section and a small coil.

I have some pictures loaded in the photo section, look for W3UTD.

The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?

Thanks for any help. Fraser, W3UTD

4906. Re: [DrakeRadio] Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 03:18:19 UTC
From: Garey Barrell
Topic: 4905 Message: 4906

Fraser -

That is almost certainly R45, which should be 1.5 ohms and is the meter shunt for metering plate current. The original circuit is R45 is 1.5 ohms, and R131 is a series resistor to the meter that was selected at test to correct the meter reading at 0.1 A. Best to replace R45 with a 1.5 ohm, 1W ceramic composition resistor, then select R131 to set the meter reading correctly. Easiest is to measure R45, calculate the voltage for 0.1A, and then select R131 to make the meter read 0.1A with the transceiver sitting upright. This is the only critical meter reading. If you are using an AC-3, there is a test point to accurately measure idle current on top of the chassis, but nothing similar in the AC-4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
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>
> I have some pictures loaded in the photo section, look for W3UTD.
>
> The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?
>
> Thanks for any help. Fraser, W3UTD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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4907. Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 03:40:42 UTC
From: Fraser
Topic: 4905 Message: 4907

Thanks Garey. Any idea where to find a 1.5 Ohm 1W ceramic resistor? I looked at Mouser and Digikey and didn't find anything.

Fraser

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fraser -
>
> That is almost certainly R45, which should be 1.5 ohms and is the meter
> shunt for metering plate current. The original circuit is R45 is 1.5
> ohms, and R131 is a series resistor to the meter that was selected at
> test to correct the meter reading at 0.1 A. Best to replace R45 with a
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> meter reading correctly. Easiest is to measure R45, calculate the
> voltage for 0.1A, and then select R131 to make the meter read 0.1A with
> the transceiver sitting upright. This is the only critical meter
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> Glen Allen, VA
>
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> > One lead goes up top and comes out underneath the relay somewhere. The other lead goes to a feed through to another section and a small coil.
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> > The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?

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> > Thanks for any help. Fraser, W3UTD
> >
> >
> >
> > ------------------------------------
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> > Yahoo! Groups Links
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4908. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 04:10:23 UTC
From: Garey Barrell
Topic: 4905 Message: 4908

Fraser -

Yeah, apparently neither one still stocks the Ohmite OX / OY ceramic comps in values that low any more.

Digikey does have the metal oxide type, which is ok, mainly you want something that can withstand current surges as it will see up to 500 mA peaks when tuning. Metal film just do not like that! :-)

The Yageo RSF200JB-1R5 should do fine.

R131 can be anything from about 50 ohms to 270 ohms 1/2W depending upon tolerance of R45. Probably a lot narrower range now with better shunt resistor accuracy! :-) While you're ordering, you might want to check and/or replace R119, 120 and 121, along with R42, 43 and 44. These affect the balance of the three output tubes and you want to keep them as close as possible to evenly share the total current. Metal oxides are good there too, as they are non-inductive and able to handle current.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
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> Fraser
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Fraser -
>>
>> That is almost certainly R45, which should be 1.5 ohms and is the meter
>> shunt for metering plate current. The original circuit is R45 is 1.5
>> ohms, and R131 is a series resistor to the meter that was selected at
>> test to correct the meter reading at 0.1 A. Best to replace R45 with a
>> 1.5 ohm, 1W ceramic composition resistor, then select R131 to set the
>> meter reading correctly. Easiest is to measure R45, calculate the
>> voltage for 0.1A, and then select R131 to make the meter read 0.1A with
>> the transceiver sitting upright. This is the only critical meter
>> reading. If you are using an AC-3, there is a test point to accurately
>> measure idle current on top of the chassis, but nothing similar in the AC-4.
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>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Fraser wrote:
>>
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>>>
>>> I've been through it, finding and listing capacitors and resistors for replacement, but I'm having trouble finding on the schematic what appears to be three carbon comp resistors paralleled around a wire wound, not factory I would suspect. It measures 1.2 Ohms and is situated at the rear of the chassis, underneath and near the power plug.
>>>
>>> One lead goes up top and comes out underneath the relay somewhere. The other lead goes to a feed through to another section and a small coil.
>>>
>>> I have some pictures loaded in the photo section, look for W3UTD.
>>>
>>> The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?
>>>
>>> Thanks for any help. Fraser, W3UTD
>

4909. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 04:29:02 UTC
From: Richard Knoppow
Topic: 4905 Message: 4909

```
----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 09, 2011 8:10 PM
Subject: Re: [DrakeRadio] Re: Hello, and a question

> Fraser -
>
> Yeah, apparently neither one still stocks the Ohmite OX /
> OY ceramic
> comps in values that low any more.
>
> Digikey does have the metal oxide type, which is ok,
> mainly you want
> something that can withstand current surges as it will see
> up to 500 mA
> peaks when tuning. Metal film just do not like that! :-)
>
> The Yageo RSF200JB-1R5 should do fine.
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> R131 can be anything from about 50 ohms to 270 ohms 1/2W
> depending upon
> tolerance of R45. Probably a lot narrower range now with
> better shunt
> resistor accuracy! :-) While you're ordering, you might
> want to check
> and/or replace R119, 120 and 121, along with R42, 43 and
> 44. These
> affect the balance of the three output tubes and you want
> to keep them
> as close as possible to evenly share the total current.
> Metal oxides
> are good there too, as they are non-inductive and able to
> handle current.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
What's wrong with wire-wound resistors for this? They
can stand enormous short time overload and tend to be
stable.

--
Richard Knoppow
Los Angeles
```

WB6KBL
dickburk@...

4910. Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 13:08:08 UTC
From: Fraser
Topic: 4905 Message: 4910

Garey, thanks for the help. I have a question though. I can't find R131.

I have been over the schematic that is in the manual that came with the rig until I had a headache, but I couldn't find it. I then went online to the BAMA archive and looked at one, and I think I see R131 right next to one side of M1, but it is a very fuzzy image.

It's definitely not in my schematic, and it's not in my rig. The S/N is 1255. Would that put it as a low number, and possibly R131 was a later mod?

Fraser

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fraser -
>
> That is almost certainly R45, which should be 1.5 ohms and is the meter
> shunt for metering plate current. The original circuit is R45 is 1.5
> ohms, and R131 is a series resistor to the meter that was selected at
> test to correct the meter reading at 0.1 A. Best to replace R45 with a
> 1.5 ohm, 1W ceramic composition resistor, then select R131 to set the
> meter reading correctly. Easiest is to measure R45, calculate the
> voltage for 0.1A, and then select R131 to make the meter read 0.1A with
> the transceiver sitting upright. This is the only critical meter
> reading. If you are using an AC-3, there is a test point to accurately
> measure idle current on top of the chassis, but nothing similar in the AC-4.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Fraser wrote:
> > Quick introduction, my name is Fraser, W3UTD and I just acquired a TR-3. I wanted
something as a project, with no solid state devices. The rig is in quite good shape, some
corrosion on the copper chassis, but at least everything is there.
> >
> > I've been through it, finding and listing capacitors and resistors for replacement, but
I'm having trouble finding on the schematic what appears to be three carbon comp resistors
paralleled around a wire wound, not factory I would suspect. It measures 1.2 Ohms and is
situated at the rear of the chassis, underneath and near the power plug.
> >
> > One lead goes up top and comes out underneath the relay somewhere. The other lead goes
to a feed through to another section and a small coil.

> >
> > I have some pictures loaded in the photo section, look for W3UTD.
> >
> > The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?
> >
> > Thanks for any help. Fraser, W3UTD
> >
> >
> >
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> > Yahoo! Groups Links
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4911. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 14:36:35 UTC
From: Garey Barrell
Topic: 4905 Message: 4911

Richard Knoppow wrote:
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, February 09, 2011 8:10 PM
> Subject: Re: [DrakeRadio] Re: Hello, and a question
>
>
>
>> Fraser -
>>
>> Yeah, apparently neither one still stocks the Ohmite OX /
>> OY ceramic
>> comps in values that low any more.
>>
>> Digikey does have the metal oxide type, which is ok,
>> mainly you want
>> something that can withstand current surges as it will see
>> up to 500 mA
>> peaks when tuning. Metal film just do not like that! :-)
>>
>> The Yageo RSF200JB-1R5 should do fine.
>>
>> R131 can be anything from about 50 ohms to 270 ohms 1/2W
>> depending upon
>> tolerance of R45. Probably a lot narrower range now with
>> better shunt
>> resistor accuracy! :-) While you're ordering, you might
>> want to check
>> and/or replace R119, 120 and 121, along with R42, 43 and
>> 44. These
>> affect the balance of the three output tubes and you want
>> to keep them
>> as close as possible to evenly share the total current.
>> Metal oxides
>> are good there too, as they are non-inductive and able to
>> handle current.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
> What's wrong with wire-wound resistors for this? They
> can stand enormous short time overload and tend to be
> stable.

>
>
Probably nothing wrong with wirewound for R45, a little more expensive, but not significant. I'd be reluctant to use them in the other places though. I've been working with RF long enough to avoid connecting anything with inductance, no matter how small, to the active elements of high gain tubes. Ya just never know, I've seen some hard to locate problems.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

4912. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 14:53:27 UTC
From: Garey Barrell
Topic: 4905 Message: 4912

Fraser -

Look at the schematic near the bottom and look for 7-10 digit number, probably ending in 0001. This is the schematic s/n, in ddmmyyxxxx form. Some used single digit days and months. The only two schematics I've ever been able to find are 1018633001 and 6186410000, so if yours is a different number or no number I'd love to get a clean copy of it.

Yes, it's likely that R131 was an addition. It is located just above the shunt resistor and meter, and obviously is just jammed in there on the schematic. The 3001 schematic shows the last resistor as R132. The designer probably thought a 5% resistor was close enough since the AC-3 had a test point for setting idle current. This current is pretty critical for distortion and tube life and needs to be set accurately. The shunt resistor/selected series calibration resistor is used in all the 4 Series transmitters as well. The meters used were NOT precision units, and cost less than $1 at the time. Again, all that was critical was the idle current setting, so if they were 'calibrated' to read correctly there, the rest really didn't matter!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
> Garey, thanks for the help. I have a question though. I can't find R131.
>
> I have been over the schematic that is in the manual that came with the rig until I had a headache, but I couldn't find it. I then went online to the BAMA archive and looked at one, and I think I see R131 right next to one side of M1, but it is a very fuzzy image.
>
> It's definitely not in my schematic, and it's not in my rig. The S/N is 1255. Would that put it as a low number, and possibly R131 was a later mod?
>
> Fraser
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Fraser -
>>
>> That is almost certainly R45, which should be 1.5 ohms and is the meter
>> shunt for metering plate current. The original circuit is R45 is 1.5
>> ohms, and R131 is a series resistor to the meter that was selected at

>> test to correct the meter reading at 0.1 A. Best to replace R45 with a
>> 1.5 ohm, 1W ceramic composition resistor, then select R131 to set the
>> meter reading correctly. Easiest is to measure R45, calculate the
>> voltage for 0.1A, and then select R131 to make the meter read 0.1A with
>> the transceiver sitting upright. This is the only critical meter
>> reading. If you are using an AC-3, there is a test point to accurately
>> measure idle current on top of the chassis, but nothing similar in the AC-4.
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>> 73, Garey - K4OAH
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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Fraser wrote:
>>
>>> Quick introduction, my name is Fraser, W3UTD and I just acquired a TR-3. I wanted something as a project, with no solid state devices. The rig is in quite good shape, some corrosion on the copper chassis, but at least everything is there.
>>>
>>> I've been through it, finding and listing capacitors and resistors for replacement, but I'm having trouble finding on the schematic what appears to be three carbon comp resistors paralleled around a wire wound, not factory I would suspect. It measures 1.2 Ohms and is situated at the rear of the chassis, underneath and near the power plug.
>>>
>>> One lead goes up top and comes out underneath the relay somewhere. The other lead goes to a feed through to another section and a small coil.
>>>
>>> I have some pictures loaded in the photo section, look for W3UTD.
>>>
>>> The closest thing I can see on the schematic is R45 .8 Ohm 2W, but it appears to be either side of M1, isn't that a meter?
>>>
>>> Thanks for any help. Fraser, W3UTD
>>>

4913. Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 15:34:26 UTC
From: Fraser
Topic: 4905 Message: 4913

The number is 6363500 and it also says "Highest resistor is R118", so no wonder I can't find R131.

I'll see what quality of copy I can scan ...

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fraser -
>
> Look at the schematic near the bottom and look for 7-10 digit number,
> probably ending in 0001. This is the schematic s/n, in ddmmyyxxxx
> form. Some used single digit days and months. The only two schematics
> I've ever been able to find are 1018633001 and 6186410000, so if yours
> is a different number or no number I'd love to get a clean copy of it.
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> Yes, it's likely that R131 was an addition. It is located just above
> the shunt resistor and meter, and obviously is just jammed in there on
> the schematic. The 3001 schematic shows the last resistor as R132. The
> designer probably thought a 5% resistor was close enough since the AC-3
> had a test point for setting idle current. This current is pretty
> critical for distortion and tube life and needs to be set accurately.
> The shunt resistor/selected series calibration resistor is used in all
> the 4 Series transmitters as well. The meters used were NOT precision
> units, and cost less than $1 at the time. Again, all that was critical
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> >> meter reading correctly. Easiest is to measure R45, calculate the
> >> voltage for 0.1A, and then select R131 to make the meter read 0.1A with
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> >>
> >>
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> >>>
> >>> Thanks for any help. Fraser, W3UTD
> >>>
>

4914. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 15:43:54 UTC
From: Garey Barrell
Topic: 4905 Message: 4914

Fraser -

OK!! That's probably the first one. If you can make clean scans at 300 dpi or better of left, right and center, I can put them together. I'd really appreciate it!

I wonder where the other 13 resistors were added?!?! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
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>> Fraser -
>>
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>> probably ending in 0001. This is the schematic s/n, in ddmmyyxxxx
>> form. Some used single digit days and months. The only two schematics
>> I've ever been able to find are 1018633001 and 6186410000, so if yours
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>> designer probably thought a 5% resistor was close enough since the AC-3
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>> the 4 Series transmitters as well. The meters used were NOT precision
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>> Fraser wrote:
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>>> Fraser
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>
>>>> Fraser -
>>>>
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>>>>
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>>>> Fraser wrote:
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>>>>> I've been through it, finding and listing capacitors and resistors for replacement,

but I'm having trouble finding on the schematic what appears to be three carbon comp resistors paralleled around a wire wound, not factory I would suspect. It measures 1.2 Ohms and is situated at the rear of the chassis, underneath and near the power plug.
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>>>>> One lead goes up top and comes out underneath the relay somewhere. The other lead goes to a feed through to another section and a small coil.
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>>>>> Thanks for any help. Fraser, W3UTD
>>>>>
>>>>>
>>
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4915. Re: [DrakeRadio] Re: Hello, and a question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-10 17:34:54 UTC
From: Richard Knoppow
Topic: 4905 Message: 4915

>>
> Probably nothing wrong with wirewound for R45, a little
> more expensive,
> but not significant. I'd be reluctant to use them in the
> other places
> though. I've been working with RF long enough to avoid
> connecting
> anything with inductance, no matter how small, to the
> active elements of
> high gain tubes. Ya just never know, I've seen some hard
> to locate
> problems.
>
> 73, Garey - K4OAH
> Glen Allen, VA

I will have to see if I can find a WW of about this
value to test. I have a Boonton RX meter which was intended
for just this sort of thing. It goes up to about 250 mhz and
will indicate the series reactance of components. Its
capacitive range is pretty limited but it will measure
reasonably large inductances and can find resonant frequency
although thats a PITA requiring several measurements
bracketed in frequency.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

4916. DOLLAR TUBES

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-12 02:23:16 UTC
From: Bry Carling
Topic: 4916 Message: 4916

DOLLAR TUBES:

Pair of Planar Tubes - one is an Eimac 2C39 - the other looks the same but has a larger heatsink on top. Probably another brand of 2C39.
Will sell the pair for $2.00

2E26 tubes - good used. Will sell two for $2.00

Others: Cunningham 327 (looks new) - $1.00

RCA 6X5 - $1.00

Group of 5 tubes including a 2C51, 5670, 6C4, 6AL5 and a little triode (6C4?) - all 5 for $5.00

Philco 5V4 - $1.00

RCA 5Y3 - $1.00

OB2 regulator Sylvania - $1.00

6BM8 - ECL82 - Britain - $1.00

All of the above for $13.00 plus shipping

73 - Brian, AF4K

[Non-text portions of this message have been removed]

4917. FS: Powerstat 20 Amp Variac

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-12 04:49:30 UTC
From: Bry Carling
Topic: 4917 Message: 4917

FOR SALE: Powerstat 20 Amp Variable Transformer.
0 - 120V AC
Rugged, Quality USA made device with original large knob.

QTY 1 available for $75.00 plus shipping.

[Non-text portions of this message have been removed]

4918. FS: Drake TR3, MS4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-12 21:03:49 UTC
From: Bry Carling
Topic: 4918 Message: 4918

FOR SALE:

DRAKE MS4 speaker - looks excellent, plays fine.
Available for $125.00 plus shipping

DRAKE TR3, no P.S. - untested, but looks good.
Available for $135.00 plus shipping

[Non-text portions of this message have been removed]

4919. looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-13 23:48:36 UTC
From: Hans-Joachim Empel
Topic: 4919 Message: 4919

Hello to the Group ,

i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE No. 3041138.

Its a BCD to 7 Segment decoder.

I need two of them , one for the board and one in stock.

In Germany i found no distributor for this IC.

Maybe its possible to use a simular type ????

All answers and suggestions and idears are welcome.

Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4920. Tomorrow's project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 01:27:02 UTC
From: MIke
Topic: 4920 Message: 4920

I turned my TR7 on only to watch it immediately go off! I waited a few minutes and tried again...nothing!

Trouble shooting will start tomorrow! Hope it is just a fuse!

Mike,,WD5CCW

4921. Re: [DrakeRadio] looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 02:43:22 UTC
From: Paul Kraemer
Topic: 4919 Message: 4921

You can try 4558. The 1 in front is a Motorola thing.
Paul K0UYA
----- Original Message -----
From: "Hans-Joachim Empel" <hajoempel@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, February 13, 2011 5:48 PM
Subject: [DrakeRadio] looking for MC 14558 BCD to 7 segments

> Hello to the Group ,
>
> i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE
> No. 3041138.
>
> Its a BCD to 7 Segment decoder.
>
> I need two of them , one for the board and one in stock.
>
> In Germany i found no distributor for this IC.
>
> Maybe its possible to use a simular type ????
>
> All answers and suggestions and idears are welcome.
>
> Regards from Germany
>
> Joachim
>
> DL2388RB
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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4922. 34-PNB Noise Blanker alternative?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 15:56:10 UTC
From: billykatzz
Topic: 4922 Message: 4922

I'm running a TR-4Cw and am very happy with its performance. However, I'm curious to know if the noise blanker addition makes a big difference in the receiver's performance or not (the knob on the lower right-hand corner of the panel has always intrigued me)

Currently there's a 34-PNB offered on Ebay for the "buy it now" price of $299, which is almost as much as I paid for the transceiver. Are there any less expensive ways of either homebrewing or modifying a noise blanker for the TR-4's?

Bill in Pasadena
NK6Q

4923. continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 16:57:20 UTC
From: Craig Roberts
Topic: 4919 Message: 4923

So...

To make a long story short (so to speak), it would now appear that the T/R switching transistor(s) on the Transmit Exciter board in my TR7 are blowing when I change modes. It seems this would be caused by a transient or short on the +10V line when the mode switch is exercised.

This has occurred three times. The latest symptom: The receiver goes dead with the display futzing around in the 17 MHz region (changing to 33 MHz above 20 meters). When the rig is keyed on CW, transmit is normal. This has happened twice. The first time this failure occurred, it was the transmitter that died and Q307 literally exploded.

Where in the heck is this coming from? The power supply board is fine. I have two of them -- both with replaced 220 uf electrolytics -- and the failure is common with either one.

4924. Re: [DrakeRadio] 34-PNB Noise Blanker alternative?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 17:05:12 UTC
From: Don Cunningham
Topic: 4922 Message: 4924

Bill,
That "high price" is what has kept me from pursuing noise blankers in any of my Drake rigs. I did get lucky with the noise blanker being in one of my R4C's, BUT the Drake noise blankers only work on short duration noise like ignitions and electric fences. It does little or nothing for atmospheric noise. I haven't found any "after market" noise blankers for sale, but hopefully someone will design one eventually. "Cracker Box" welders and electric fences are my only plague out here in the woods, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4925. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 18:19:39 UTC
From: Garey Barrell
Topic: 4919 Message: 4925

Wellllll. Since it was at least working on transmit, perhaps the problem is on the 10R bus. Assuming a 'mechanical' inspection shows no shorted or broken wires, next most likely is a failed electrolytic cap. One approach is to just apply +10V to the 10R bus and see what pops! :-)

A more scientific, (albeit less exciting,) method is to make up a 'truth table' to see what happens when.

At turn on, the VCO is unlocked. Is the receiver working?? An unlocked VCO is just a moving LO, so if an antenna is connected you should hear signals (or a generator) as it sweeps by. The 24VDC supply is involved in the 'steering' of the VCO, to preset it to where the PLL can capture it. Does it continue to work, just settled around 17 MHz? No blown Transmit Exciter 'fuses'?

When you switch modes, does it matter 'which way' you are switching? Particular modes?

If you key the transmitter, the out-of-lock should keep it from transmitting. Does the 10R fuse blow when you switch? If not, does it blow when you return to receive? Does the 10T fuse blow? When? Do they BOTH blow???

With the TR-7, if cleaning the card and cable connectors doesn't fix it, the next most likely fault is one of the MANY electrolytic caps. The dipped tantalum caps seem to be much more reliable, but the aluminum electrolytics are failure prone.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
> So...
>
> To make a long story short (so to speak), it would now appear that the
> T/R switching transistor(s) on the Transmit Exciter board in my TR7 are
> blowing when I change modes. It seems this would be caused by a
> transient or short on the +10V line when the mode switch is exercised.
>
> This has occurred three times. The latest symptom: The receiver goes
> dead with the display futzing around in the 17 MHz region (changing to
> 33 MHz above 20 meters). When the rig is keyed on CW, transmit is
> normal. This has happened twice. The first time this failure occurred,

> it was the transmitter that died and Q307 literally exploded.
>
> Where in the heck is this coming from? The power supply board is fine.
> I have two of them -- both with replaced 220 uf electrolytics -- and the
> failure is common with either one.
>
>
>

4926. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 18:45:27 UTC
From: Craig Roberts
Topic: 4919 Message: 4926

Thanks, Garey. The 'truth table' approach certainly makes sense although applying 10 volts to the 10 R line does, indeed, sound exciting. I am intrigued by the simple efficacy of the 'flames n' smoke' troubleshooting method (which I have employed for decades).

I think -- and I emphasize 'I think' -- the failure occurs when I switch out of CW mode and back into it.

I am wondering of the problem component resides on the PBT board.

The last two statements do not necessarily relate to one another.

73,

Craig
W3CRR

4927. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 18:54:03 UTC
From: Garey Barrell
Topic: 4919 Message: 4927

Craig -

Which 'fuse' blows? Both? In what order?

Do you have an extender board set?

73, Garey - K4OAH
Glen Allen, VA

Craig Roberts wrote:
> Thanks, Garey. The 'truth table' approach certainly makes sense
> although applying 10 volts to the 10 R line does, indeed, sound
> exciting. I am intrigued by the simple efficacy of the 'flames n' smoke'
> troubleshooting method (which I have employed for decades).
>
> I think -- and I emphasize 'I think' -- the failure occurs when I switch
> out of CW mode and back into it.
>
> I am wondering of the problem component resides on the PBT board.
>
> The last two statements do not necessarily relate to one another.
>
> 73,
>
> Craig
> W3CRR
>
>
>

4928. Re: [DrakeRadio] 34-PNB Noise Blanker alternative?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 20:11:03 UTC
From: Paul Pollock
Topic: 4922 Message: 4928

Hi Bill NK6Q,

The Noise Blanker came with my TR-4, and I would never own a radio without it. In my locality, I presently have a constant S-5 noise level (AC line noise, I have a 203R power transformer within 60-ft of my antenna), and the Drake PNB-9? brings that down to a S-2/3 routinely. This boils down to a increase of 12-18db more receiver gain at the noise-floor end. On my old antenna, I was getting a noise factor of S-9, and the Drake Noise Blanker could still pull that down to a S-2/3. When you find one, be sure to align it. They get out of calibration over long periods of time.

I am a relative newcomer to Drake products, but I will tell you that a working Noise Blanker has no business quieting atmospheric or generalized noises. It is only intended for spikes. However, the Drake adaptive Noise Blanker scheme does work effectively on many more types of noises than the inventor of the circuit ever intended <grin>.

There is a good article on the "HFN" website about using the Noise Blanker out of a TenTec-555 transceiver, however it cannot be used in a Drake transceiver as it is mono-directional (works in the TenTec) and the Drake transceivers require a Noise Blanker that can handle signals in both receive and transmit. But it may give you a direction to start with. Otherwise, I would wait for a cheaper PNB-34, as $300 is way to much for a board that was included in virtually all TR-4C models, as I recall reading. And in earlier radios was a sub-$50 option; even accounting for inflation, this board should be less than $100.

Anyone who takes the PNB-34 out of an existing transceiver is in my book a slug beneath contempt. Why doesn't the likes of that kind of EBay'r take out the transmitter tubes and sell those separately while he's at it, or sell the sheet metal separately. Sheesh, sorry to vent, but I see this kind of junk on EBay far too often. Only good excuse for seeing a loose PNB-34 is when a radio becomes not-economic to repair, and the only thing that can be stripped for parts is the Noise Blanker board.

Same thing happens on EBay where one might be shopping for a good laptop; quite often the hard drive or the power supply brick is not included. These both came with the machine, and parting it to boost the overall price is contemptible. Even the argument that the seller says he's protecting the next owner from his data security, is baloney. There's all kinds of software that can effectively wipe a drive to the extent that DOD can't get anything from it, is cheap or free. Macs can do it from inside the OS. Any seller that needs to take security precautions by removing the drive, is ignorant, in the extreme, or a damn liar. There's no third way.

Again, I apologize if I've gotten too windy. Have fun with your search, and good luck!

-Paul Pollock
KD7BWB

On Feb 14, 2011, at 8:56 AM, billykatzz wrote:

> I'm running a TR-4Cw and am very happy with its performance. However, I'm curious to know if the noise blanker addition makes a big difference in the receiver's performance or not (the knob on the lower right-hand corner of the panel has always intrigued me)
>
> Currently there's a 34-PNB offered on Ebay for the "buy it now" price of $299, which is almost as much as I paid for the transceiver. Are there any less expensive ways of either homebrewing or modifying a noise blanker for the TR-4's?
>
> Bill in Pasadena
> NK6Q
>
>

[Non-text portions of this message have been removed]

4929. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 20:13:37 UTC
From: Craig Roberts
Topic: 4919 Message: 4929

The first time this happened, Q307 burned up (literally), disabling the transmitter. In two subsequent cases, Q308 has gone, killing the receiver. Sadly, I do not not have an extender board set. Guess I could use one, eh?

4930. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 20:50:14 UTC
From: Garey Barrell
Topic: 4919 Message: 4930

Craig -

Q307 and Q308 are both on the 10R receiver bus. Q307 IS the fuse, but Q308 is the control and shouldn't be damaged unless Q307 is shorted. Are you sure you got the replacement in the right orientation?? Both are E-B-C, leads toward you and flat up. Q307 is PNP and Q308 is NPN.

The most important part of the extender set is the Jumper Board that bridges two boards and allows the radio to run without the DR-7. You DON'T want to be removing and replacing the DR-7. Best extender option is Bob, W7AVK <http://www.wb4hfn.com/Services/W7AVK/tr7ext2.htm>.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
> The first time this happened, Q307 burned up (literally), disabling the
> transmitter. In two subsequent cases, Q308 has gone, killing the
> receiver. Sadly, I do not not have an extender board set. Guess I could
> use one, eh?
>
>

4931. Re: [DrakeRadio] continued TR7 weirdness

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 21:58:00 UTC
From: Jim Shorney
Topic: 4919 Message: 4931

On Mon, 14 Feb 2011 13:19:39 -0500, Garey Barrell wrote:

>If you key the transmitter, the out-of-lock should keep it from
>transmitting.

Important note: the Drake authorized general coverage transmit mod disables the out-of-lock transmit inhibit. It WILL transmit unlocked! This is why I came up with a better mod that does not disable the OOL inhibit.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4932. Drake parts needed.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-14 22:58:10 UTC
From: kf0hr
Topic: 4932 Message: 4932

I am looking for some IC chips for the SP-75.
U1 is XR2216
U2,3 is MC1496

Are these parts available and where would I order them?
Got a friend that wanted to give it a try to repair.
It isn't passing audio through one of the IC's. Don't remember which one?
So don't have a manual for it at this time. Friend has it.
Hope the above numbers are correct.

Thanks, de Teran in North Dakota

4933. RE: [DrakeRadio] Drake parts needed.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-15 00:22:50 UTC
From: Jerry
Topic: 4932 Message: 4933

Email me

Wb9jfr@...

I may be able to help on the MC1496

Looking to see if I have the xr 2216

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of kf0hr
Sent: Monday, February 14, 2011 4:58 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake parts needed.

I am looking for some IC chips for the SP-75.
U1 is XR2216
U2,3 is MC1496

Are these parts available and where would I order them?
Got a friend that wanted to give it a try to repair.
It isn't passing audio through one of the IC's. Don't remember which one?
So don't have a manual for it at this time. Friend has it.
Hope the above numbers are correct.

Thanks, de Teran in North Dakota

[Non-text portions of this message have been removed]

4934. RE: [DrakeRadio] Drake parts needed.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-15 00:25:53 UTC
From: Jerry
Topic: 4932 Message: 4934

I have the MC1496 in dip package

Will this help

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jerry
Sent: Monday, February 14, 2011 6:23 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Drake parts needed.

Email me

Wb9jfr@... <mailto:Wb9jfr%40comcast.net>

I may be able to help on the MC1496

Looking to see if I have the xr 2216

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> [mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>] On
Behalf Of kf0hr
Sent: Monday, February 14, 2011 4:58 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Drake parts needed.

I am looking for some IC chips for the SP-75.
U1 is XR2216
U2,3 is MC1496

Are these parts available and where would I order them?
Got a friend that wanted to give it a try to repair.
It isn't passing audio through one of the IC's. Don't remember which one?
So don't have a manual for it at this time. Friend has it.
Hope the above numbers are correct.

Thanks, de Teran in North Dakota

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4935. RE: [DrakeRadio] Drake parts needed.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-15 01:16:02 UTC
From: Teran W. Hermanson
Topic: 4932 Message: 4935

Jerry,
I don't know what a dip package is? 14 dip?
Does it come some other way?

I remember it is like a 14 pin dip chip?

I don't do much with solid state.
Mostly old tube stuff.

Some day I might get back into the low power building. HI HI

Thanks,
Teran KF0HR in North Dakota

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jerry
Sent: Monday, February 14, 2011 6:26 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Drake parts needed.

I have the MC1496 in dip package

Will this help

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jerry
Sent: Monday, February 14, 2011 6:23 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Drake parts needed.

Email me

Wb9jfr@... <mailto:Wb9jfr%40comcast.net>

I may be able to help on the MC1496

Looking to see if I have the xr 2216

Jerry

Wb9jfr

From: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
[mailto:DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>]
On
Behalf Of kf0hr
Sent: Monday, February 14, 2011 4:58 PM
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Subject: [DrakeRadio] Drake parts needed.

I am looking for some IC chips for the SP-75.
U1 is XR2216
U2,3 is MC1496

Are these parts available and where would I order them?
Got a friend that wanted to give it a try to repair.
It isn't passing audio through one of the IC's. Don't remember which one?
So don't have a manual for it at this time. Friend has it.
Hope the above numbers are correct.

Thanks, de Teran in North Dakota

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

4936. WTB - Drake R4C or PTO

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-15 14:41:22 UTC
From: arsnf7z
Topic: 4936 Message: 4936

I am looking for a R4C or the PTO from a R4C or T4XC.
I am doing PTO studies, and a PTO from the R4B or T4B would also meet my requirements.

73's

NF7Z, daniel

4937. Re: 34-PNB Noise Blanker alternative?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-15 14:56:36 UTC
From: Dave Drake
Topic: 4922 Message: 4937

Bill,
First, whether you need one or not depends on your environment. The Drake noise blankers all worked very well on removing pulse type emissions. This is not to be confused with the dsp noise reduction of today's new rigs. We could get technical, but sometimes is just best to pass along experiences. I once owned a R4C and all the options were installed, including the noise blanker. I recollect trying to use it several times, for power line noise, but it made no difference. Once there was some work being done nearby and I was picking up some engine noise from a large machine. The NB took it right out.

My current TR4C does not have the noise blanker, and I have not found an occasion that made me wish it had it inside. I continue to marvel at the receive audio and sensitivity of this radio, when compared to my new Ten Tec, Icom and my TR7. I've used the TR7 over the last 10 years quite a bit. Its got the NB7 installed. I think I've used it one time where it actually eliminated some noise,...again it was a pulse type noise.

I'd suggest to you that its not worth an additional $300 to have one. I've often wondered why someone has not offered a board or kit. I've heard its due to obsolete components. However a redesign would be acceptable if it worked, ... and at the same time, it might be improved upon. I seem to recall some efforts by a German ham in making a board for a TR7, but not sure. In summary, you should just have fun with the rig and put that knob out of your mind !! Hi Hi.
73's
David
Wd9cmd

[Non-text portions of this message have been removed]

4938. Fw: looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 09:36:45 UTC
From: Hans-Joachim Empel
Topic: 4938 Message: 4938

----- Original Message -----
From: Hans-Joachim Empel
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 14, 2011 12:48 AM
Subject: looking for MC 14558 BCD to 7 segments

Hello to the Group ,

i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE No. 3041138.

Its a BCD to 7 Segment decoder.

I found a Distributor , but he can deliver only the MC14588BCD IC.

can i use this IC for the original one installed on the board ????.

All answers and suggestions and idears are welcome.

Regards from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

4939. Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 10:46:25 UTC
From: Jorge Gomes
Topic: 4938 Message: 4939

Hallo Joachim,

Try this site

http://www.elettronicashop.it/ITAITA65N126-mc14558-circuito-integrato.htm

They apparently have the IC in stock, at 1,20 Euro each, with VAT.

I have no experience in trading with them, so I can not comment on their
reliability as suppliers.

But you may want to check them out...Let us know the results, OK?

Kind regards,

Jorge

Em 16-02-2011 9:36, Hans-Joachim Empel escreveu:
> ----- Original Message -----
> From: Hans-Joachim Empel
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, February 14, 2011 12:48 AM
> Subject: looking for MC 14558 BCD to 7 segments
>
>
> Hello to the Group ,
>
> i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE No. 3041138.
>
> Its a BCD to 7 Segment decoder.
>
> I found a Distributor , but he can deliver only the MC14588BCD IC.
>
> can i use this IC for the original one installed on the board ????.
>
> All answers and suggestions and idears are welcome.
>
> Regards from Germany
>
> Joachim
>
> DL2388RB
>
>

4940. Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 13:32:05 UTC
From: Jorge Gomes
Topic: 4938 Message: 4940

Hallo Joachim,

Another possible source:

www.eBay.de, item 220512808988; the seller has good feedback and is
based in the Netherlands.

Kind regards,

Jorge

Em 16-02-2011 9:36, Hans-Joachim Empel escreveu:
> ----- Original Message -----
> From: Hans-Joachim Empel
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, February 14, 2011 12:48 AM
> Subject: looking for MC 14558 BCD to 7 segments
>
>
> Hello to the Group ,
>
> i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE No. 3041138.
>
> Its a BCD to 7 Segment decoder.
>
> I found a Distributor , but he can deliver only the MC14588BCD IC.
>
> can i use this IC for the original one installed on the board ????.
>
> All answers and suggestions and idears are welcome.
>
> Regards from Germany
>
> Joachim
>
> DL2388RB
>

4941. Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 13:49:15 UTC
From: Hans-Joachim Empel
Topic: 4938 Message: 4941

THANKS FOR THE TIP .
I BOUGHT SOME OF THEM

REGARDS
Joachim

----- Original Message -----
From: "Jorge Gomes" <radiofan@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 16, 2011 2:32 PM
Subject: Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments

> Hallo Joachim,
>
> Another possible source:
>
> www.eBay.de, item 220512808988; the seller has good feedback and is
> based in the Netherlands.
>
> Kind regards,
>
> Jorge
>
> Em 16-02-2011 9:36, Hans-Joachim Empel escreveu:
>> ----- Original Message -----
>> From: Hans-Joachim Empel
>> To: DrakeRadio@yahoogroups.com
>> Sent: Monday, February 14, 2011 12:48 AM
>> Subject: looking for MC 14558 BCD to 7 segments
>>
>>
>> Hello to the Group ,
>>
>> i am looking for a MC14558 IC (Ref Number 9029 at the DR-7 Board) DRAKE
>> No. 3041138.
>>
>> Its a BCD to 7 Segment decoder.
>>
>> I found a Distributor , but he can deliver only the MC14588BCD IC.
>>
>> can i use this IC for the original one installed on the board ????.
>>
>> All answers and suggestions and idears are welcome.
>>
>> Regards from Germany
>>

>> Joachim
>>
>> DL2388RB
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4942. Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 14:22:05 UTC
From: Jorge Gomes
Topic: 4938 Message: 4942

Hallo Joachim,

Happy to be of assistance!

Kind regards from sunny Portugal,

Jorge

Em 16-02-2011 13:49, Hans-Joachim Empel escreveu:
> THANKS FOR THE TIP .
> I BOUGHT SOME OF THEM
>
> REGARDS
> Joachim
>
> ----- Original Message -----
> From: "Jorge Gomes"<radiofan@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Wednesday, February 16, 2011 2:32 PM
> Subject: Re: [DrakeRadio] Fw: looking for MC 14558 BCD to 7 segments
>
>
>> Hallo Joachim,
>>
>> Another possible source:
>>
>> www.eBay.de, item 220512808988; the seller has good feedback and is
>> based in the Netherlands.
>>
>> Kind regards,
>>
>> Jorge
>>
>> Em 16-02-2011 9:36, Hans-Joachim Empel escreveu:
>>

4943. FS-4 Adapter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 18:33:50 UTC
From: querencias
Topic: 4943 Message: 4943

Looking for the adapter kit for use with the "B" line and the SPR-4

thanks, Grant

4944. Re: [DrakeRadio] FS-4 Adapter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 19:11:22 UTC
From: Garey Barrell
Topic: 4943 Message: 4944

Grant -

No real 'adapter' needed. A piece of coax, RG-58 / 59, or low capacity microphone cable, as short as possible. The receiver end center conductor goes into any of the ACCESSORY XTAL sockets on the back panel. It needs to go into the pins that are all tied together with a piece of bus wire. Then the shield needs to go to chassis ground nearby, NOT the 'other' crystal pin. Then switch to ANY crystal switch except for NORM. The cable should be disconnected at the receiver end when crystals are being used, although there is no longer any reason to use crystals!

By the way, the FS-4 will be 10 kHz off frequency for ONE of the two receivers. The "B" and other 4 Series Ham receivers need an injection frequency that is 11.1 MHz above the bottom end of the desired band, while the SPR-4 requires 11.09 MHz. The crystal in the FS-4 must be changed to the 'correct' one for an accurate dial reading, i.e., 9.6 MHz for the R-4 series, and 9.59 for the SPR-4.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

querencias wrote:
> Looking for the adapter kit for use with the "B" line and the SPR-4
>
> thanks, Grant
>
>
>

4945. Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 21:16:39 UTC
From: billykatzz
Topic: 4945 Message: 4945

Another question to the Drake gurus out there:

With the thought that I might want to go QRO sometime in the future, I recently picked up a Drake MN-2000 matching network. Currently I am using an MN-4 with my TR-4Cw running barefoot.

A few months ago I strung up a G5RV antenna in the hopes that with it and the MN-4 I might be able to work 80 meters. Unfortunately the MN-4 doesn't seem to be able to get a good match on 80 with the antenna.

I understand the MN-4 is somewhat limited in matching, so my question is: does the MN-2000 have a greater capacity of matching than the MN-4, or is it pretty much the same performance with the exception of being able to handle higher power output?

Bill in Pasadena
NK6Q

4946. Re: [DrakeRadio] Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-16 21:28:50 UTC
From: Dennis Weal
Topic: 4945 Message: 4946

Off hand without knowing the particulars I would say that the antenna was at fault or the feedline. My TR-4C does just fine with just about anything I hang on it. For barefoot use I would take the MN-4 out of the loop. The tune and load control on the TR-4 will do just as good without the loss from the tuner. What version of G5RV are you using? Is it cut for 75-80 mtrs? More info from you will return more info from the group.

Denny
----- Original Message -----
From: billykatzz
Sent: 02/16/11 04:16 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake MN-2000 vs MN-4

Another question to the Drake gurus out there:

With the thought that I might want to go QRO sometime in the future, I recently picked up a Drake MN-2000 matching network. Currently I am using an MN-4 with my TR-4Cw running barefoot.

A few months ago I strung up a G5RV antenna in the hopes that with it and the MN-4 I might be able to work 80 meters. Unfortunately the MN-4 doesn't seem to be able to get a good match on 80 with the antenna.

I understand the MN-4 is somewhat limited in matching, so my question is: does the MN-2000 have a greater capacity of matching than the MN-4, or is it pretty much the same performance with the exception of being able to handle higher power output?

Bill in Pasadena
NK6Q

[Non-text portions of this message have been removed]

4947. Using a MFJ mini tuner(902) w/Dtake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 02:03:08 UTC
From: trapp7318
Topic: 4947 Message: 4947

Hi;
I am new to the group and I just got a real nice Drake TR-4, I checked with the previous owner, he told me the it put out about 150 watts and he only ran it at about 110 to 120 watts, but knowing that if I tuned it up to max watts out, I was wondering if the 902 could handle the load. I just wanted some real life experience from any member that used or uses a tuner say less than 300 watts.
Thank you
Wayne

4948. Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 03:05:41 UTC
From: Paul Kraemer
Topic: 4947 Message: 4948

I have used that little tuner and it worked just fine---after soldering
about 5 never soldered correct connections in it. That done it was FB at
couple hundred watts. It is rated at 300w pep I recall.
Paul K0UYA
----- Original Message -----
From: "trapp7318" <trapp7318@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 16, 2011 8:03 PM
Subject: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

> Hi;
> I am new to the group and I just got a real nice Drake TR-4, I checked
> with the previous owner, he told me the it put out about 150 watts and he
> only ran it at about 110 to 120 watts, but knowing that if I tuned it up
> to max watts out, I was wondering if the 902 could handle the load. I just
> wanted some real life experience from any member that used or uses a tuner
> say less than 300 watts.
> Thank you
> Wayne
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

4949. Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 03:15:09 UTC
From: Wayne Skiba
Topic: 4947 Message: 4949

Hi Paul:
Thank you Paul for the info, I kind of suspected that it would be able to handle a full load, as the tuner has, it seems, beefier components in it, I will give it a try and see what happens.
Thank you again for the info.
Wayne

--- On Wed, 2/16/11, Paul Kraemer <elespe@lisco.com> wrote:

From: Paul Kraemer <elespe@...>
Subject: Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4
To: DrakeRadio@yahoogroups.com
Date: Wednesday, February 16, 2011, 9:05 PM

I have used that little tuner and it worked just fine---after soldering
about 5 never soldered correct connections in it. That done it was FB at
couple hundred watts. It is rated at 300w pep I recall.
Paul K0UYA
----- Original Message -----
From: "trapp7318" <trapp7318@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 16, 2011 8:03 PM
Subject: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

> Hi;
> I am new to the group and I just got a real nice Drake TR-4, I checked
> with the previous owner, he told me the it put out about 150 watts and he
> only ran it at about 110 to 120 watts, but knowing that if I tuned it up
> to max watts out, I was wondering if the 902 could handle the load. I just
> wanted some real life experience from any member that used or uses a tuner
> say less than 300 watts.
> Thank you
> Wayne
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

4950. Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 16:58:23 UTC
From: billykatzz
Topic: 4945 Message: 4950

Denny:

I understand that the older tube transceivers can handle high SWR better than more modern rigs, but wouldn't trying to load the TR-4 directly into "just about anything (you) hang on it" potentially damage the rig, particularly the finals?

My G5RV is a homebrew 102 ft. dipole with 34 feet of homebrew ladderline going to a 1:1 toroid balun. Part of my problem may be that a portion of the ladderline is resting on my asphalt-shingled rooftop.

Although I can't get the MN-4 to tune to 1:1 SWR on 80, on 40 and 20 it's no sweat and the performance seems to be really good. This morning on 40 I worked Japan, Korea, Guadalajara, the Bahamas, and Sakalin Island. For running barefoot with a compromised G5RV I can't complain.

Bill in Pasadena

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> Off hand without knowing the particulars I would say that the antenna was at fault or the feedline. My TR-4C does just fine with just about anything I hang on it. For barefoot use I would take the MN-4 out of the loop. The tune and load control on the TR-4 will do just as good without the loss from the tuner. What version of G5RV are you using? Is it cut for 75-80 mtrs? More info from you will return more info from the group.
>
> Denny
> ----- Original Message -----
> From: billykatzz
> Sent: 02/16/11 04:16 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Drake MN-2000 vs MN-4
>
> Another question to the Drake gurus out there:
>
> With the thought that I might want to go QRO sometime in the future, I recently picked up a Drake MN-2000 matching network. Currently I am using an MN-4 with my TR-4Cw running barefoot.
>
> A few months ago I strung up a G5RV antenna in the hopes that with it and the MN-4 I might be able to work 80 meters. Unfortunately the MN-4 doesn't seem to be able to get a good match on 80 with the antenna.
>
> I understand the MN-4 is somewhat limited in matching, so my question is: does the MN-2000 have a greater capacity of matching than the MN-4, or is it pretty much the same performance with the exception of being able to handle higher power output?
>

> Bill in Pasadena
> NK6Q
>
>
>
>
> [Non-text portions of this message have been removed]
>

4951. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 17:53:53 UTC
From: Dennis Weal
Topic: 4945 Message: 4951

Hello Bill. The older tube transmitters can handle the higher swr due to the fact that the output network actually adjusts to the antenna load hence the LOAD capacitor. It is a sort of tuner in itself. Adding the outboard tuner can cause problems by adding loss and mis-matching can occur because you have to tune the rig to the tuner and then tune the tuner to the antenna. Just one more thing to cause problems. If you were using a solid state finaled rig the transistors in the final cannot stand a mismatch and have no built in tuning network just a system to reduce current to a level well below the operating specifications of the device to "save" it from destruction. The tubes when properly loaded may see some small variation in swr but can handle that. Swr changes can occur from rain, snow, humidity, leaves and even atmospheric conditions.

When you tune the load control on a tube rig you can tell if the SWR is high (or low) by reaction of the final tune adjustment (plate). In most cases it will not have any real effect on the signal. If the load (antenna) is open or shorted it will not load. Just take it back to standby or receive and go investigate the problem.

As for your custom hand made ladder line, are you running it directly to the tuner? Or is it through a balun or matching section? And I guarantee that it laying on the roof is having adverse effect. Even being in close proximity can cause strange weirdness. It needs to be 90 degrees from the feet point. Just one of several problems encountered with ladder line.

And finally have you done any trimming on the antenna length? The G5RV has inherent problems with 80 and 10 meters. Possibly removing an inch or more will bring it up in frequency. Here is some good info on the G5RV from G3TXQ:

http://www.karinya.net/g3txq/g5rv/

Personally I prefer the off center fed dipole.

Good luck
73
Denny

----- Original Message -----
From: billykatzz
Sent: 02/17/11 11:58 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Denny:

I understand that the older tube transceivers can handle high SWR better than more modern rigs, but wouldn't trying to load the TR-4 directly into "just about anything (you) hang on it" potentially damage the rig, particularly the finals?

My G5RV is a homebrew 102 ft. dipole with 34 feet of homebrew ladderline going to a 1:1 toroid balun. Part of my problem may be that a portion of the ladderline is resting on my asphalt-shingled rooftop.

Although I can't get the MN-4 to tune to 1:1 SWR on 80, on 40 and 20 it's no sweat and the performance seems to be really good. This morning on 40 I worked Japan, Korea, Guadalajara, the Bahamas, and Sakalin Island. For running barefoot with a compromised G5RV I can't complain.

Bill in Pasadena

--- In DrakeRadio%2540yahoogroups.com , "Dennis Weal" <w4eal@...> wrote:
>
> Off hand without knowing the particulars I would say that the antenna was at fault or the feedline. My TR-4C does just fine with just about anything I hang on it. For barefoot use I would take the MN-4 out of the loop. The tune and load control on the TR-4 will do just as good without the loss from the tuner. What version of G5RV are you using? Is it cut for 75-80 mtrs? More info from you will return more info from the group.
>
> Denny
> ----- Original Message -----
> From: billykatzz
> Sent: 02/16/11 04:16 PM
> To: DrakeRadio%2540yahoogroups.com
> Subject: [DrakeRadio] Drake MN-2000 vs MN-4
>
> Another question to the Drake gurus out there:
>
> With the thought that I might want to go QRO sometime in the future, I recently picked up a Drake MN-2000 matching network. Currently I am using an MN-4 with my TR-4Cw running barefoot.
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> A few months ago I strung up a G5RV antenna in the hopes that with it and the MN-4 I might be able to work 80 meters. Unfortunately the MN-4 doesn't seem to be able to get a good match on 80 with the antenna.
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> I understand the MN-4 is somewhat limited in matching, so my question is: does the MN-2000 have a greater capacity of matching than the MN-4, or is it pretty much the same performance with the exception of being able to handle higher power output?
>
> Bill in Pasadena
> NK6Q
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4952. Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 22:56:41 UTC
From: billykatzz
Topic: 4945 Message: 4952

Denny:

Thanks for the info. I'm certain you're right about the ladderline lying on the roof: I'm addressing that by making 8 inch spacers out of cheap plastic planter pots I picked up at Orchard Supply (they're also black, which is the same color as my roof shingles, so they should not look too obtrusive)

I initially tried just running the ladderline down to a 1:1 balun and then to a short run of RG213 into the shack, but everything went haywire. Things got better when I cut down the ladderline to the requesite "magical" 34 foot length. So the ladderline now terminates in the 1:1 toroid balun (from Balun Designs) and an extension of RG213 takes it down to the entry point of the shack.

The ladderline is definitely 90 degrees coming off the antenna (sure looks "purty" too hanging down above the roof), but I haven't attempted trimming the antenna length. I want to get to the low end of the band for CW only, so wouldn't I actually need a slightly longer length G5RV, or are we inching towards a regular 80 meter dipole?

Bill in Pasadena
NK6Q

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> Hello Bill. The older tube transmitters can handle the higher swr due to the fact that the output network actually adjusts to the antenna load hence the LOAD capacitor. It is a sort of tuner in itself. Adding the outboard tuner can cause problems by adding loss and mis-matching can occur because you have to tune the rig to the tuner and then tune the tuner to the antenna. Just one more thing to cause problems. If you were using a solid state finaled rig the transistors in the final cannot stand a mismatch and have no built in tuning network just a system to reduce current to a level well below the operating specifications of the device to "save" it from destruction. The tubes when properly loaded may see some small variation in swr but can handle that. Swr changes can occur from rain, snow, humidity, leaves and even atmospheric conditions.
>
> When you tune the load control on a tube rig you can tell if the SWR is high (or low) by reaction of the final tune adjustment (plate). In most cases it will not have any real effect on the signal. If the load (antenna) is open or shorted it will not load. Just take it back to standby or receive and go investigate the problem.
>
> As for your custom hand made ladder line, are you running it directly to the tuner? Or is it through a balun or matching section? And I guarantee that it laying on the roof is having adverse effect. Even being in close proximity can cause strange weirdness. It needs to be 90 degrees from the feet point. Just one of several problems encountered with ladder line.
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> And finally have you done any trimming on the antenna length? The G5RV has inherent

problems with 80 and 10 meters. Possibly removing an inch or more will bring it up in frequency. Here is some good info on the G5RV from G3TXQ:
>
> http://www.karinya.net/g3txq/g5rv/
>
> Personally I prefer the off center fed dipole.
>
> Good luck
> 73
> Denny

4953. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-17 23:23:03 UTC
From: Dennis Weal
Topic: 4945 Message: 4953

Bill the antenna you have is not a true dipole as the feedline is also radiating. Maybe you could beg, borrow or swipe (just kidding) an antenna analyzer and run through the bands and actually see where you are resonant. Could be a big surprize. Maybe some of the other guru's in the group have some experience with similar circumstances. But play away as it is all part of the experience of antenna farming. Wish there were "magic seeds" for antennas. Other things that will influence the antenna are ground conductivity (soil makeup) and other trees, poles, utility lines, fences and buildings. Also your station and building grounding. So many variables. It could drive a crazy man sane. Good luck

Denny
----- Original Message -----
From: billykatzz
Sent: 02/17/11 05:56 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Denny:

Thanks for the info. I'm certain you're right about the ladderline lying on the roof: I'm addressing that by making 8 inch spacers out of cheap plastic planter pots I picked up at Orchard Supply (they're also black, which is the same color as my roof shingles, so they should not look too obtrusive)

I initially tried just running the ladderline down to a 1:1 balun and then to a short run of RG213 into the shack, but everything went haywire. Things got better when I cut down the ladderline to the requesite "magical" 34 foot length. So the ladderline now terminates in the 1:1 toroid balun (from Balun Designs) and an extension of RG213 takes it down to the entry point of the shack.

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Bill in Pasadena
NK6Q

--- In DrakeRadio%2540yahoogroups.com , "Dennis Weal" <w4eal@...> wrote:
>
> Hello Bill. The older tube transmitters can handle the higher swr due to the fact that the output network actually adjusts to the antenna load hence the LOAD capacitor. It is a sort of tuner in itself. Adding the outboard tuner can cause problems by adding loss and mis-matching can occur because you have to tune the rig to the tuner and then tune the tuner to the antenna. Just one more thing to cause problems. If you were using a solid state finaled rig the transistors in the final cannot stand a mismatch and have no built in tuning network just a system to reduce current to a level well below the operating specifications of the device to "save" it from destruction. The tubes when properly loaded

may see some small variation in swr but can handle that. Swr changes can occur from rain, snow, humidity, leaves and even atmospheric conditions.
>
> When you tune the load control on a tube rig you can tell if the SWR is high (or low) by reaction of the final tune adjustment (plate). In most cases it will not have any real effect on the signal. If the load (antenna) is open or shorted it will not load. Just take it back to standby or receive and go investigate the problem.
>
> As for your custom hand made ladder line, are you running it directly to the tuner? Or is it through a balun or matching section? And I guarantee that it laying on the roof is having adverse effect. Even being in close proximity can cause strange weirdness. It needs to be 90 degrees from the feet point. Just one of several problems encountered with ladder line.
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> And finally have you done any trimming on the antenna length? The G5RV has inherent problems with 80 and 10 meters. Possibly removing an inch or more will bring it up in frequency. Here is some good info on the G5RV from G3TXQ:
>
> http://www.karinya.net/g3txq/g5rv/
>
> Personally I prefer the off center fed dipole.
>
> Good luck
> 73
> Denny

[Non-text portions of this message have been removed]

4954. Corrosion?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-18 02:02:54 UTC
From: Bob Macklin
Topic: 4954 Message: 4954

Has anyone ever tried removing the chassis corrosion with white vinegar on a cotton swab?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

4955. Re: [DrakeRadio] Corrosion?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-18 02:04:53 UTC
From: Dennis Weal
Topic: 4954 Message: 4955

No. But tarn-x worked good.

Denny
w4eal

----- Original Message -----
From: Bob Macklin
Sent: 02/17/11 09:02 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Corrosion?

Has anyone ever tried removing the chassis corrosion with white vinegar on a cotton swab?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4956. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-18 14:38:29 UTC
From: W6IDS
Topic: 4945 Message: 4956

Hi Dennis,

Pardon me, but you might consider this line of thought which I've followed for years, even unto today -

Tune the Drakes into a 50 ohm dummy load DIRECTLY, without the "tuner."

Then, without touching Plate - Load on the Drake, key up again into the "tuner" and tune the external MN-4 or whatever to "match" the antenna for lowest SWR.

Works for me without fail.

Howard W6IDS
Richmond, IN EM79NV

----- Original Message -----
From: Dennis Weal
To: DrakeRadio@yahoogroups.com
Sent: Thursday, February 17, 2011 12:53 PM
Subject: Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Hello Bill. The older tube transmitters can handle the higher swr due to the fact that the output network actually adjusts to the antenna load hence the LOAD capacitor. It is a sort of tuner in itself. Adding the outboard tuner can cause problems by adding loss and mis-matching can occur because you have to tune the rig to the tuner and then tune the tuner to the antenna. Just one more thing to cause problems. If you were using a solid state finaled rig the transistors in the final cannot stand a mismatch and have no built in tuning network just a system to reduce current to a level well below the operating specifications of the device to "save" it from destruction. The tubes when properly loaded may see some small variation in swr but can handle that. Swr changes can occur from rain, snow, humidity, leaves and even atmospheric conditions.

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And finally have you done any trimming on the antenna length? The G5RV has inherent problems with 80 and 10 meters. Possibly removing an inch or more will bring it up in frequency. Here is some good info on the G5RV from G3TXQ:

http://www.karinya.net/g3txq/g5rv/

Personally I prefer the off center fed dipole.

Good luck
73
Denny

<SNIP> <SNIP>

[Non-text portions of this message have been removed]

4957. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-18 16:35:22 UTC
From: Don Cunningham
Topic: 4945 Message: 4957

Excellent advice, Howard!!! FYI, if you don't follow Howard's advice, you will end up chasing your tail on most antennas until you have NO 6JB6's left!!! The only thing I might add to Howard's procedure is after you have reached that "lowest SWR", that you peak plate one last time to insure you have the "dip" in the best place for the plates.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4958. Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-19 17:41:01 UTC
From: billykatzz
Topic: 4945 Message: 4958

Thanks, guys.

Actually, that's my procedure too. I'll tune the transceiver into a dummy load and then switch to the antenna. I lower the transmitter gain control and tune the MN-4 for lowest SWR, then turn the gain back up: good to go.

I hadn't heard about retuning the plate control for optimum dip afterwards, but that sounds like a good idea. Of course, if the dummy load is presenting a 50 ohm load and the MN-4 has been tuned to match, ideally they should be the same.

Bill in Pasadena
NK6Q

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Excellent advice, Howard!!! FYI, if you don't follow Howard's advice, you will end up chasing your tail on most antennas until you have NO 6JB6's left!!! The only thing I might add to Howard's procedure is after you have reached that "lowest SWR", that you peak plate one last time to insure you have the "dip" in the best place for the plates.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

4959. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-19 17:53:35 UTC
From: Bob Macklin
Topic: 4945 Message: 4959

If you are tuning a tube type transmitter with a Pi Network output in to anything less than probably 100 ohms you really do not need a tuner.

A tuner does not fix antenna problems. It only hides them from the transmitter. Tuners did not become commonplace until the switch to broadband solid state finals.

Heath did not sell the SA-2040 and SA-2060 until they were selling the SB-104. It needed a tuner. The previous SB line did not need a tuner. The Pi Network is the tuner.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: billykatzz
To: DrakeRadio@yahoogroups.com
Sent: Saturday, February 19, 2011 9:41 AM
Subject: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Thanks, guys.

Actually, that's my procedure too. I'll tune the transceiver into a dummy load and then switch to the antenna. I lower the transmitter gain control and tune the MN-4 for lowest SWR, then turn the gain back up: good to go.

I hadn't heard about retuning the plate control for optimum dip afterwards, but that sounds like a good idea. Of course, if the dummy load is presenting a 50 ohm load and the MN-4 has been tuned to match, ideally they should be the same.

Bill in Pasadena
NK6Q

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Excellent advice, Howard!!! FYI, if you don't follow Howard's advice, you will end up chasing your tail on most antennas until you have NO 6JB6's left!!! The only thing I might add to Howard's procedure is after you have reached that "lowest SWR", that you peak plate one last time to insure you have the "dip" in the best place for the plates.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

4960. Re: [DrakeRadio] Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-19 17:57:31 UTC
From: Jim Shorney
Topic: 4945 Message: 4960

On Sat, 19 Feb 2011 17:41:01 -0000, billykatzz wrote:

>
>Actually, that's my procedure too. I'll tune the transceiver into a dummy load and then switch to the antenna. I lower the transmitter gain control and tune the MN-4 for lowest SWR, then turn the gain back up: good to go.

Same here, with my amp. I tune up (L-7 in CW mode) into my turbo-DL-1000, then switch the MN-2700 to the matched antenna.

Before anyone asks, the turbo-DL-1000 is a 32 CFM fan on a standard DL-1000. Pulling air OUT.... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

4961. Re: Drake MN-2000 vs MN-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 00:03:02 UTC
From: Ralph
Topic: 4945 Message: 4961

--- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@...> wrote:
> Thanks, guys.
>
> Actually, that's my procedure too. I'll tune the transceiver into a dummy load and then switch to the antenna. I lower the transmitter gain control and tune the MN-4 for lowest SWR, then turn the gain back up: good to go.
>
> I hadn't heard about retuning the plate control for optimum dip afterwards, but that sounds like a good idea. Of course, if the dummy load is presenting a 50 ohm load and the MN-4 has been tuned to match, ideally they should be the same.
>
> Bill in Pasadena
> NK6Q
>
>

I usually tune into a dummy load if moving the transmitt frequency very far. Then the tuner gets adjusted to the antenna with about 25 to 50 watts. Then back to the rig or amp for a full power tune up going into the tuner.

The rig or amp should be the last thing to be tuned as your dummy load may not be exectally 50 ohms and the input to the amp or tuner will not be exectally 50 ohms.

If the swr is less than about 2 or 2.5 to 1 then the tuner is not used. For solid state rigs without a built in tuner I usually go through one if the swr is above about 1.5:1 or where the rig cuts back the power.

4962. are there differences between the B-line and C-line PTO's?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 19:54:10 UTC
From: arsnf7z
Topic: 4962 Message: 4962

I have not received a response regarding my quest to find a C-line PTO, but I have found one from a T4XB. obviously the dial mechanism is different, but I am wondering if there are any changes that would prevent me from replacing the old dial/gear mechanism with one from my R4C. the feel of the tuning dial on the R4C is silky smooth and I would love to have that on the replacement PTO. it has the metal gears and is perfect. it's conceivable that the tuning ratio was slightly different, necessitating a different winding on the inductor. I doubt this, but I've found it best to ask questions before purchasing!

comments?

73's

NF7Z, daniel

4963. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 20:09:54 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 4963

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

4964. RE: [DrakeRadio] are there differences between the B-line and C-line PTO's?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 20:21:17 UTC
From: Martin
Topic: 4962 Message: 4964

Hello Daniel if you prefer i also have a extra TR4 transceiver for 85$ + shipping.

Martin

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de arsnf7z
Envoyé : 20 février 2011 14:54
À : DrakeRadio@yahoogroups.com
Objet : [DrakeRadio] are there differences between the B-line and C-line PTO's?

I have not received a response regarding my quest to find a C-line PTO, but I have found one from a T4XB. obviously the dial mechanism is different, but I am wondering if there are any changes that would prevent me from replacing the old dial/gear mechanism with one from my R4C. the feel of the tuning dial on the R4C is silky smooth and I would love to have that on the replacement PTO. it has the metal gears and is perfect. it's conceivable that the tuning ratio was slightly different, necessitating a different winding on the inductor. I doubt this, but I've found it best to ask questions before purchasing!

comments?

73's

NF7Z, daniel

[Non-text portions of this message have been removed]

4965. Re: [DrakeRadio] are there differences between the B-line and C-line PTO's?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 20:31:40 UTC
From: Garey Barrell
Topic: 4962 Message: 4965

Daniel -

I don't 'know', but the frequency range covered is identical. It's possible that you could just remove the PC board and change it to the other one, BUT the cores were not perfect, and I understand that the core and coil were always kept together.

Again, I've never compared them directly, but it would be interesting to know if just a board swap would retain linearity. You could always swap the boards back if it was not satisfactory.

Is there a reason you're not just repairing the C-Line PTO board??

Interesting question and let us know what you discover!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

arsnf7z wrote:
> I have not received a response regarding my quest to find a C-line PTO, but I have found one from a T4XB. obviously the dial mechanism is different, but I am wondering if there are any changes that would prevent me from replacing the old dial/gear mechanism with one from my R4C. the feel of the tuning dial on the R4C is silky smooth and I would love to have that on the replacement PTO. it has the metal gears and is perfect. it's conceivable that the tuning ratio was slightly different, necessitating a different winding on the inductor. I doubt this, but I've found it best to ask questions before purchasing!
>
> comments?
>
> 73's
>
> NF7Z, daniel
>
>
>
>

4966. Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-20 23:23:54 UTC
From: Paul Kraemer
Topic: 4947 Message: 4966

Sure it will be fine
Paul
----- Original Message -----
From: "Wayne Skiba" <trapp7318@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 16, 2011 9:15 PM
Subject: Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

Hi Paul:
Thank you Paul for the info, I kind of suspected that it would be able to handle a full load, as the tuner has, it seems, beefier components in it, I will give it a try and see what happens.
Thank you again for the info.
Wayne

--- On Wed, 2/16/11, Paul Kraemer <elespe@...> wrote:

From: Paul Kraemer <elespe@...>
Subject: Re: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4
To: DrakeRadio@yahoogroups.com
Date: Wednesday, February 16, 2011, 9:05 PM

I have used that little tuner and it worked just fine---after soldering about 5 never soldered correct connections in it. That done it was FB at couple hundred watts. It is rated at 300w pep I recall.
Paul K0UYA
----- Original Message -----
From: "trapp7318" <trapp7318@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, February 16, 2011 8:03 PM
Subject: [DrakeRadio] Using a MFJ mini tuner(902) w/Dtake TR-4

> Hi;
> I am new to the group and I just got a real nice Drake TR-4, I checked
> with the previous owner, he told me the it put out about 150 watts and he
> only ran it at about 110 to 120 watts, but knowing that if I tuned it up
> to max watts out, I was wondering if the 902 could handle the load. I just
> wanted some real life experience from any member that used or uses a tuner
> say less than 300 watts.
> Thank you
> Wayne
>
>
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> ------------------------------------
>

> Yahoo! Groups Links
>
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

4967. Re: are there differences between the B-line and C-line PTO's?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-21 01:10:52 UTC
From: arsnf7z
Topic: 4962 Message: 4967

well Gary, it's a long and sad story. the PTO in my R4C developed a drift problem, in the radio, and on the bench, where it drifted 1.5khz over 8 hours ... slowing down but never really settling. my other PTO's settle within an hour. so, I replaced the active components without success, then sequenced through the resistors and capacitors without luck. using a lab bench supply, I supplied the 10.0v directly and all bias voltages never changed appreciably over the duration. the drift always remained the same and in the same direction (increasing). I swapped out the capacitors in the tuned circuit with the same results, which left only the inductor. in the process of swapping capacitors, I discovered how critical the tracking is, and managed to break the windings on the inductor. after my best repair, the tracking was unacceptable, and the drift still existed! drat ...

so, I took the PTO out of my T4XC and it is rock-solid. it just happens to be the one dial mechanism that has fallen out of favour. I've reworked it a bit, and it is good but not near as smooth as my metal-geared anti-backlashed PTO original to my radio (sn:27k). I now see that the entire dial mechanism has been changed so I'm not sure I can swap gears on a different tuned core. perhaps.

one final point .. always hearing intermodulation-distortion from the product detector of the R4B and R4C, I finally decided to install the Sherwood detector which cleaned it up and made listening enjoyable once again. highly recommended.

daniel

4968. New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-22 03:39:46 UTC
From: wb6tnf
Topic: 2736 Message: 4968

Hello group. My name is Jim (WB6TNF). I am new to the group. I recently aquired a TR-4CW/RIT, MS-4, AC-4 & MN-2000 all in Mint Condition. I am still looking for a TR-6 and L-4B to round off my collection (Drake Station). Also does anyone know the status of Tony Mills the Drake Front Panel guy? I have tried to contact him with no luck so far. I am looking forward to future posts (and reading thru the archives).

4969. Re: [DrakeRadio] New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-22 15:18:26 UTC
From: Garey Barrell
Topic: 2736 Message: 4969

Jim -

Welcome to the group. The L-4B will be 'findable' relatively easily.
The TR-6 however is considerably more difficult a find.

There are some mixed messages regarding Tony Mills, but I have recently
heard from a very reliable source that he HAS indeed stopped
production. His website was still up the last time I looked, so I
suppose it's possible that he has a few odd panels left to dispose of.

There is a LOT of useful information stored away in those archives.
They're not easily perused, but when the search function is working you
can narrow down the amount of chaff.

Feel free to post any wants or calls for help! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wb6tnf wrote:
> Hello group. My name is Jim (WB6TNF). I am new to the group. I recently aquired a TR-4CW/RIT, MS-4, AC-4& MN-2000 all in Mint Condition. I am still looking for a TR-6 and L-4B to round off my collection (Drake Station). Also does anyone know the status of Tony Mills the Drake Front Panel guy? I have tried to contact him with no luck so far. I am looking forward to future posts (and reading thru the archives).
>
>
>
>
>

4970. TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-22 20:56:22 UTC
From: w1kilofoxtrot
Topic: 4970 Message: 4970

I'm back on the case, getting my TR-4C up to snuff. Got nice new (to me) filters in, and the carrier oscillator crystal replaced and on frequency. I decided to put LEDs in to replace the #47 bulbs. I picked blue for the meters, red for the sideband indicators. I put a bit of shrink wrap on them, so light doesn't spill, kind of like the metal clips on the existing bulbs. I like the look, and I didn't change any of the filters, so can go back in a blink. I got the bulbs from www.cointaker.com. Fast shipping, great pricing, I highly recommend them!

I've picked up a bit of 60Hz hum, so I think I'm losing an electrolytic somewhere. Before I start digging around, is there a short form listing of all of the likely caps that should be replaced? It might save me a few precious minutes of searching :-)

And, of course, the relay contacts are now dirty, so I only get receive sometimes after I activate the relay a bit.

Never ends! Good thing I like it, or I'd be forced to get rid of it!!!

73,
Steve
W1KF

4971. Re: [DrakeRadio] TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-22 21:10:19 UTC
From: Garey Barrell
Topic: 4970 Message: 4971

Steve -

IF it's _really_ 60 hz, (not 120 Hz,) then it's either the BIAS supply in the AC-4, or possibly heater-cathode leakage in a tube.

If it's actually 120 Hz, then the 'other' AC-4 filter caps and the four section electrolytic inside the TR-4C is suspect.

Tom at 'hayseedhamfest.com' has a kit that includes the TR-4C can type electrolytic along with a couple of other small electrolytic caps for a very reasonable price. The AC-4R kit from 'heathkitshop.com' is a good way to go for the AC-4. ALL of these caps are many years past their 'expected' life. Yes, a lot of them are still working fine, but any one or more could fail tomorrow with catastrophic damage, even if the TR-4C is just sitting in RECEIVE. The odds of a failure are considerably higher this year than whey were ten years ago. The odds are also higher tomorrow than today!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
> I'm back on the case, getting my TR-4C up to snuff. Got nice new (to me) filters in, and the carrier oscillator crystal replaced and on frequency. I decided to put LEDs in to replace the #47 bulbs. I picked blue for the meters, red for the sideband indicators. I put a bit of shrink wrap on them, so light doesn't spill, kind of like the metal clips on the existing bulbs. I like the look, and I didn't change any of the filters, so can go back in a blink. I got the bulbs from www.cointaker.com. Fast shipping, great pricing, I highly recommend them!
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> And, of course, the relay contacts are now dirty, so I only get receive sometimes after I activate the relay a bit.
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> Never ends! Good thing I like it, or I'd be forced to get rid of it!!!
>
> 73,
> Steve
> W1KF

>
>

4972. Re: [DrakeRadio] TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 04:24:30 UTC
From: Paul Pollock
Topic: 4970 Message: 4972

Hi Steve W1KF,

I had most of the same problems as you, when I got into a Drake TR-4/AC-4 package, about a year ago. First thing I did was to get the AC-4R kit and install it (killed all the humming I was getting on the radio).

Then I sent the radio to Jeff Covelli (a very reputable Drake Technician) and let him refurbish the radio. I was very lucky, the radio needed no parts, just an alignment, and some cleaning. He also tried to fix a sticky K2 relay drive circuit (which occasionally dogs me these days since. I think the relay is fine it just sticks occasionally because a circuit doesn't quite close when I want to tune-up). Jeff sent it back looking and working almost like new, and works like it should. It is still putting out 200-watts on 80-meters with the tubes that came in it, and hears a rats' whisker <grin>. Best sounding radio I have ever used in 40 years of radio, should have done this a long time ago.

I originally bought it to have a tube radio in case we get Sun-Flared severely, and my solid-state radio fails. TR-4 now on a shelf in storage, for now.

This group is a great resource for new Drake owners like you and I. There are quite a few helpful folks that enjoy pitching in, to keep those old radios still glowing <grin>!

Have fun and good luck!

-Paul Pollock
KD7BWB

On Feb 22, 2011, at 1:56 PM, w1kilofoxtrot wrote:

> I'm back on the case, getting my TR-4C up to snuff. Got nice new (to me) filters in, and the carrier oscillator crystal replaced and on frequency. I decided to put LEDs in to replace the #47 bulbs. I picked blue for the meters, red for the sideband indicators. I put a bit of shrink wrap on them, so light doesn't spill, kind of like the metal clips on the existing bulbs. I like the look, and I didn't change any of the filters, so can go back in a blink. I got the bulbs from www.cointaker.com. Fast shipping, great pricing, I highly recommend them!
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> I've picked up a bit of 60Hz hum, so I think I'm losing an electrolytic somewhere. Before I start digging around, is there a short form listing of all of the likely caps that should be replaced? It might save me a few precious minutes of searching :-)
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> And, of course, the relay contacts are now dirty, so I only get receive sometimes after I activate the relay a bit.
>
> Never ends! Good thing I like it, or I'd be forced to get rid of it!!!
>
> 73,
> Steve

> W1KF
>
>

[Non-text portions of this message have been removed]

4973. New member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 05:17:03 UTC
From: trapp7318
Topic: 4973 Message: 4973

Hi All:
I have recently joined the Drake radio Users' group earlier this month, my name is Wayne and have been a ham since 1974 and currently hold an advanced ticket.
I recently purchased a very clean TR-4 with the MS-4 and AC-4 power supply and D104 silver eagle desk mike, and am very happy with it, and it works great so far. The previous owner had the radio aligned and the power supply rebuilt in 2008 by a well known Drake radio technician.
I really do enjoy the group with all the very informative information that is shared it really makes for some very interesting reading.
I just wanted to introduce myself to the group, and tell you guys/gals thank you for letting me be a part of this great Drake family.
73's
Wayne
WD9HKP

4974. Re: TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 15:51:09 UTC
From: w1kilofoxtrot
Topic: 4970 Message: 4974

Paul,

This is not my first trip to the bench. I had a pair of TR-3s a couple of years back, which I went through. I didn't want to sell them, but I did want to experience a 'modern' radio, so I sold them both and got an Icom IC-718. Loved it, but missed the warm glow.

So, I found this TR-4C in a little rough shape; and have been bringing it back, little by little. Learning a lot from the fine folks in this group as well. Looks like a full re-cap is in the works real soon now.

Part of the joy is doing it myself, part is that fact I just bought a Yaesu FT-950 to get a feel for DSP signal processing, and I'm loving that too. But, it's removed a large part of discretionary income that I might have had an urge to leave with Mr. Covelli (sorry, Jeff!)

The Drake will stay, the Icom, sadly, will find another home, since I don't need 3 HF rigs. It's in like new condition, with all original accessories. I just haven't gotten to doing anything about it yet.

73,
Steve
W1KF
--- In DrakeRadio@yahoogroups.com, Paul Pollock <pbell3@...> wrote:
>
> Hi Steve W1KF,
>
> I had most of the same problems as you, when I got into a Drake TR-4/AC-4 package, about a year ago. First thing I did was to get the AC-4R kit and install it (killed all the humming I was getting on the radio).
>
> Then I sent the radio to Jeff Covelli (a very reputable Drake Technician) and let him refurbish the radio. I was very lucky, the radio needed no parts, just an alignment, and some cleaning. He also tried to fix a sticky K2 relay drive circuit (which occasionally dogs me these days since. I think the relay is fine it just sticks occasionally because a circuit doesn't quite close when I want to tune-up). Jeff sent it back looking and working almost like new, and works like it should. It is still putting out 200-watts on 80-meters with the tubes that came in it, and hears a rats' whisker <grin>. Best sounding radio I have ever used in 40 years of radio, should have done this a long time ago.
>
> I originally bought it to have a tube radio in case we get Sun-Flared severely, and my solid-state radio fails. TR-4 now on a shelf in storage, for now.
>
> This group is a great resource for new Drake owners like you and I. There are quite a few helpful folks that enjoy pitching in, to keep those old radios still glowing <grin>!
>
> Have fun and good luck!
>

> -Paul Pollock
> KD7BWB
>
>
> On Feb 22, 2011, at 1:56 PM, w1kilofoxtrot wrote:
>
> > I'm back on the case, getting my TR-4C up to snuff. Got nice new (to me) filters in, and the carrier oscillator crystal replaced and on frequency. I decided to put LEDs in to replace the #47 bulbs. I picked blue for the meters, red for the sideband indicators. I put a bit of shrink wrap on them, so light doesn't spill, kind of like the metal clips on the existing bulbs. I like the look, and I didn't change any of the filters, so can go back in a blink. I got the bulbs from www.cointaker.com. Fast shipping, great pricing, I highly recommend them!
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> >
> > Never ends! Good thing I like it, or I'd be forced to get rid of it!!!
> >
> > 73,
> > Steve
> > W1KF
> >
> >
>
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>
> [Non-text portions of this message have been removed]
>

4975. Re: [DrakeRadio] New member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 15:52:03 UTC
From: Don Cunningham
Topic: 4973 Message: 4975

Welcome to the group, Wayne!
You will find this a VERY helpful group as you experience problems with your Drakes. At their age, they will "hiccup" at times and cause us to scratch our heads. Many knowledgeable hams frequent this group, and help is usually right at hand. Enjoy your Drakes!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4976. 4 line coverage crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 17:17:01 UTC
From: Galassi
Topic: 4976 Message: 4976

Good evening,I'm new to the group.
I'm looking for some optional crystals for my R-4B rx, maybe you have a few spares or unused ones?
Coverage needed is (real frequency is + 11,1)
1,5 mhz (180 m)
3,0 mhz (90 m.band)
9,5 (31 m band)
11,5 (25 .band)
13,5
15,0 (19 m.band)

PM are welcome.

Thank you
Best 73s- Giampaolo, Italy

4977. Re: [DrakeRadio] 4 line coverage crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 18:20:28 UTC
From: Bob Macklin
Topic: 4976 Message: 4977

Try here:
http://www.af4k.com/hc6u_crystals.htm#drake

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Galassi
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, February 23, 2011 9:17 AM
Subject: [DrakeRadio] 4 line coverage crystals

Good evening,I'm new to the group.
I'm looking for some optional crystals for my R-4B rx, maybe you have a few spares or unused ones?
Coverage needed is (real frequency is + 11,1)
1,5 mhz (180 m)
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13,5
15,0 (19 m.band)

PM are welcome.

Thank you
Best 73s- Giampaolo, Italy

[Non-text portions of this message have been removed]

4978. RE: [DrakeRadio] 4 line coverage crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 18:30:47 UTC
From: Joel Levy
Topic: 4976 Message: 4978

Giampaolo, good evening. I have a 26.1 mHz xtal available.

73, Joel AE2JL

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Galassi
Sent: Wednesday, February 23, 2011 12:17 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] 4 line coverage crystals

Good evening,I'm new to the group.
I'm looking for some optional crystals for my R-4B rx, maybe you have a few spares or unused ones?
Coverage needed is (real frequency is + 11,1)
1,5 mhz (180 m)
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9,5 (31 m band)
11,5 (25 .band)
13,5
15,0 (19 m.band)

PM are welcome.

Thank you
Best 73s- Giampaolo, Italy

[Non-text portions of this message have been removed]

4979. Re: [DrakeRadio] Re: TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 22:03:52 UTC
From: Paul Pollock
Topic: 4970 Message: 4979

Hi Steve W1KF,

Oops, my apologies about you being a new guy. Fixing radios can be fun, but I had a bad scare once trying to fix a tube amp awhile back. Damn near fried me to the ground. So now I let braver individuals do it when I can <grin>.

TR-3's are nice radios, but I got spoiled by Noise Blankers, so I was glad to get a TR-4 with the Blanker. It really does help on noises in my locale.

FT-950 is said to be a very good radio. I'm using a FT-450at on my present station. Only thing about the FT-450 I don't like is it don't have an Auto-Notch, but the FT-950 is almost double the cost. So I'll stick with this for awhile.

I did look at the IC-718, several of my friends swear by them. But I've used its' DSP when I used to have a R-75 receiver (with the AM-Synch and modified to work). Great radio, but the Notch filter only works on 2.5 tones (spec from a tech I know at Icom), and there are many times when the thing has to work on more than that. I eventually sold it to one of my friends who had a IC-718, he wanted to create a set of splits (as some folks have <grin>). R-75 is a much better receiver than the receiver in the IC-718, by most accounts. He sold me the Drake TR-4. It was an excellent trade, both of us got exactly what we wanted. He has since also acquired a set of "B" series splits, and wants to put that on the air when he gets them refurbished.

When I can find one in good shape, I would like also to acquire a Drake R-4b receiver, just to see how it does against the TR-4. Articles on the web suggest it is much more sensitive, while remaining a quiet radio. Only minus in the Drake line, is that the UP-Conversion scheme does not let me use the R-4x receivers to hear signals in the Tropical Bands. Especially the frequencies in the 5.8-6.5Mhz range. I like to listen to AM Broadcasts in this range. I understand why I can't, but it's an irritation anyhow <grin>.

I hope you get the TR-4c fixed soon, I'm sure it will serve well.

-Paul Pollock
KD7BWB

On Feb 23, 2011, at 8:51 AM, w1kilofoxtrot wrote:

> Paul,
>
> This is not my first trip to the bench. I had a pair of TR-3s a couple of years back, which I went through. I didn't want to sell them, but I did want to experience a 'modern' radio, so I sold them both and got an Icom IC-718. Loved it, but missed the warm glow.
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> 73,
> Steve
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> --- In DrakeRadio@yahoogroups.com, Paul Pollock <pbell3@...> wrote:
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> > Hi Steve W1KF,
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> > I had most of the same problems as you, when I got into a Drake TR-4/AC-4 package, about a year ago. First thing I did was to get the AC-4R kit and install it (killed all the humming I was getting on the radio).
> >
> > Then I sent the radio to Jeff Covelli (a very reputable Drake Technician) and let him refurbish the radio. I was very lucky, the radio needed no parts, just an alignment, and some cleaning. He also tried to fix a sticky K2 relay drive circuit (which occasionally dogs me these days since. I think the relay is fine it just sticks occasionally because a circuit doesn't quite close when I want to tune-up). Jeff sent it back looking and working almost like new, and works like it should. It is still putting out 200-watts on 80-meters with the tubes that came in it, and hears a rats' whisker <grin>. Best sounding radio I have ever used in 40 years of radio, should have done this a long time ago.
> >
> > I originally bought it to have a tube radio in case we get Sun-Flared severely, and my solid-state radio fails. TR-4 now on a shelf in storage, for now.
> >
> > This group is a great resource for new Drake owners like you and I. There are quite a few helpful folks that enjoy pitching in, to keep those old radios still glowing <grin>!
> >
> > Have fun and good luck!
> >
> > -Paul Pollock
> > KD7BWB
> >
> >
> > On Feb 22, 2011, at 1:56 PM, w1kilofoxtrot wrote:
> >
> > > I'm back on the case, getting my TR-4C up to snuff. Got nice new (to me) filters in, and the carrier oscillator crystal replaced and on frequency. I decided to put LEDs in to replace the #47 bulbs. I picked blue for the meters, red for the sideband indicators. I put a bit of shrink wrap on them, so light doesn't spill, kind of like the metal clips on the existing bulbs. I like the look, and I didn't change any of the filters, so can go back in a blink. I got the bulbs from www.cointaker.com. Fast shipping, great pricing, I highly recommend them!

> > >
> > > I've picked up a bit of 60Hz hum, so I think I'm losing an electrolytic somewhere. Before I start digging around, is there a short form listing of all of the likely caps that should be replaced? It might save me a few precious minutes of searching :-)
> > >
> > > And, of course, the relay contacts are now dirty, so I only get receive sometimes after I activate the relay a bit.
> > >
> > > Never ends! Good thing I like it, or I'd be forced to get rid of it!!!
> > >
> > > 73,
> > > Steve
> > > W1KF
> > >
> > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

4980. Re: [DrakeRadio] Re: TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-23 22:13:23 UTC
From: Don Cunningham
Topic: 4970 Message: 4980

Paul,
You can listen to frequencies in the 5.8 to 6.5 range with any R4(x) receiver. It's only the 5.0 to 5.5 that you shouldn't TRANSMIT in, you can listen there too as far as I know. In any case, 5.8 to 6.5 is certainly allowed. I do it all the time.
73,
Don, WB5HAK

4981. Re: [DrakeRadio] New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 01:39:27 UTC
From: Ed Berbari
Topic: 2736 Message: 4981

What is the current market value for a TR-6? I have one and I am not emotionally attached to it.

Ed, W9EJB

----- Original Message -----
From: wb6tnf
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 21, 2011 10:39 PM
Subject: [DrakeRadio] New to Group

Hello group. My name is Jim (WB6TNF). I am new to the group. I recently aquired a TR-4CW/RIT, MS-4, AC-4 & MN-2000 all in Mint Condition. I am still looking for a TR-6 and L-4B to round off my collection (Drake Station). Also does anyone know the status of Tony Mills the Drake Front Panel guy? I have tried to contact him with no luck so far. I am looking forward to future posts (and reading thru the archives).

[Non-text portions of this message have been removed]

4982. Re: [DrakeRadio] New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 01:47:36 UTC
From: john garko
Topic: 2736 Message: 4982

Ed... what does that have to do with Jim?

On Wed, Feb 23, 2011 at 8:39 PM, Ed Berbari <eberbari@...> wrote:

>
>
> What is the current market value for a TR-6? I have one and I am not
> emotionally attached to it.
>
> Ed, W9EJB
>
> ----- Original Message -----
> From: wb6tnf
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, February 21, 2011 10:39 PM
> Subject: [DrakeRadio] New to Group
>
> Hello group. My name is Jim (WB6TNF). I am new to the group. I recently
> aquired a TR-4CW/RIT, MS-4, AC-4 & MN-2000 all in Mint Condition. I am still
> looking for a TR-6 and L-4B to round off my collection (Drake Station). Also
> does anyone know the status of Tony Mills the Drake Front Panel guy? I have
> tried to contact him with no luck so far. I am looking forward to future
> posts (and reading thru the archives).
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

4983. Re: [DrakeRadio] New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 01:58:27 UTC
From: Joe
Topic: 2736 Message: 4983

John......I suspect Ed is hinting that he would be willing to part with his TR-6...to Jim, who is looking to purchase one, "To round off his Drake collection".

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "john garko" <radioman91@...>
Subject: Re: [DrakeRadio] New to Group

> Ed... what does that have to do with Jim?
>>
>> What is the current market value for a TR-6? I have one and I am not
>> emotionally attached to it.
>>
>> Ed, W9EJB
>>
>> ----- Original Message -----
>> From: wb6tnf
>> Subject: [DrakeRadio] New to Group
I am still
>> looking for a TR-6 and L-4B to round off my collection (Drake Station).

4984. Re: [DrakeRadio] New to Group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 02:06:52 UTC
From: Mr James Sullivan
Topic: 2736 Message: 4984

Ed, I sent some pricing to you to look at. My direct Email is:
wb6tnf@...
Jim - WB6TNF

_____
From: Ed Berbari <eberbari@...>
To: DrakeRadio@...m
Sent: Wed, February 23, 2011 5:39:27 PM
Subject: Re: [DrakeRadio] New to Group

What is the current market value for a TR-6? I have one and I am not emotionally attached to it.

Ed, W9EJB

----- Original Message -----
From: wb6tnf
To: DrakeRadio@yahoogroups.com
Sent: Monday, February 21, 2011 10:39 PM
Subject: [DrakeRadio] New to Group

Hello group. My name is Jim (WB6TNF). I am new to the group. I recently aquired a TR-4CW/RIT, MS-4, AC-4 & MN-2000 all in Mint Condition. I am still looking for a TR-6 and L-4B to round off my collection (Drake Station). Also does anyone know the status of Tony Mills the Drake Front Panel guy? I have tried to contact him with no luck so far. I am looking forward to future posts (and reading thru the archives).

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

4985. Re: TR-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 02:09:39 UTC
From: Mr James Sullivan
Topic: 4985 Message: 4985

I'll take that as a hint. WB6TNF

4986. TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 16:49:59 UTC
From: billykatzz
Topic: 4986 Message: 4986

I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.

Are there any considerations about pairing the TR4Cw with the SB-200?

TNX ES 73

Bill in Pasadena
NK6Q

4987. Re: 4 line coverage crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 17:25:22 UTC
From: Galassi
Topic: 4976 Message: 4987

Thank you!
Best 73s
G.

--- In DrakeRadio@yahoogroups.com, Bob Macklin <macklinbob@...> wrote:
>
> Try here:
> http://www.af4k.com/hc6u_crystals.htm#drake
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: Galassi
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, February 23, 2011 9:17 AM
> Subject: [DrakeRadio] 4 line coverage crystals
>
>
>
> Good evening,I'm new to the group.
> I'm looking for some optional crystals for my R-4B rx, maybe you have a few spares or unused ones?
> Coverage needed is (real frequency is + 11,1)
> 1,5 mhz (180 m)
> 3,0 mhz (90 m.band)
> 9,5 (31 m band)
> 11,5 (25 .band)
> 13,5
> 15,0 (19 m.band)
>
> PM are welcome.
>
> Thank you
> Best 73s- Giampaolo, Italy
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

4988. Re: [DrakeRadio] TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 18:52:34 UTC
From: Garey Barrell
Topic: 4986 Message: 4988

The SB-200 only buys you one s-unit. (200 W output > 500 W output.)
Not to mention that you have to dump more than half of that 200W
'somewhere else' as heat.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
> I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.
>
> Are there any considerations about pairing the TR4Cw with the SB-200?
>
> TNX ES 73
>
> Bill in Pasadena
> NK6Q
>
>
>
>

4989. Re: [DrakeRadio] TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 20:44:09 UTC
From: Joe
Topic: 4986 Message: 4989

Hi Garey!!..

Heathkit specs state the SB200 is rated at 1200w input on SSB, PEP, and 1000w on CW.....

Mine puts out close to 600w, (Average) in Tune, into a DL, 80w from exciter, according to my Bird.

Joe - WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] TR4Cw with SB-200

> The SB-200 only buys you one s-unit. (200 W output > 500 W output.)
> Not to mention that you have to dump more than half of that 200W
> 'somewhere else' as heat.

4990. Re: [DrakeRadio] TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 20:55:49 UTC
From: Garey Barrell
Topic: 4986 Message: 4990

Joe -

Precisely. 200 W you have now, to 600 W is 4.8 dB. One Drake S-unit is
5 dB. Plus you still gotta dump 120 W 'somewhere'.

Hardly seems worth the cost / complication ??

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Joe wrote:
> Hi Garey!!..
>
> Heathkit specs state the SB200 is rated at 1200w input on SSB, PEP, and
> 1000w on CW.....
>
> Mine puts out close to 600w, (Average) in Tune, into a DL, 80w from exciter,
> according to my Bird.
>
> Joe - WA6RKN
>
> ----- Original Message -----
> From: "Garey Barrell"<k4oah@...>
> Subject: Re: [DrakeRadio] TR4Cw with SB-200
>
>
>
>> The SB-200 only buys you one s-unit. (200 W output> 500 W output.)
>> Not to mention that you have to dump more than half of that 200W
>> 'somewhere else' as heat.
>>
>

4991. Re: [DrakeRadio] TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 21:01:51 UTC
From: Joe
Topic: 4986 Message: 4991

OK...finally sunk in what you were saying...yeah....not really worth the cost.....

However, with the L-4B.....<<GRIN>>

LOL.

Joe - WA6RKN

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] TR4Cw with SB-200

> Joe -
>
> Precisely. 200 W you have now, to 600 W is 4.8 dB. One Drake S-unit is
> 5 dB. Plus you still gotta dump 120 W 'somewhere'.
>
> Hardly seems worth the cost / complication ??

4992. Re: [DrakeRadio] TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-24 21:24:24 UTC
From: Craig Roberts
Topic: 4986 Message: 4992

I have managed to enjoy a 40+ year career in amateur radio without ever owning or even operating a linear amplifier -- but I understand the psychology. After all, I own a 193hp motorcycle that tops out at 206 mph. Its capability is completely useless in everyday riding -- and beyond my "vintage" skills on the track these days -- but it sure feels good!

4993. Re: [DrakeRadio] Re: TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 00:33:04 UTC
From: Paul Pollock
Topic: 4970 Message: 4993

To Don WB5HAK,

I've been misinformed than. Thanks a lot!

-Paul Pollock
KD7BWB

On Feb 23, 2011, at 3:13 PM, Don Cunningham wrote:

> Paul,
> You can listen to frequencies in the 5.8 to 6.5 range with any R4(x)
> receiver. It's only the 5.0 to 5.5 that you shouldn't TRANSMIT in, you can
> listen there too as far as I know. In any case, 5.8 to 6.5 is certainly
> allowed. I do it all the time.
> 73,
> Don, WB5HAK
>
>

[Non-text portions of this message have been removed]

4994. Re: [DrakeRadio] Re: TR-4C recap recommendations?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 00:39:22 UTC
From: Don Cunningham
Topic: 4970 Message: 4994

You are welcome, Paul. 5.8 to 6.3 would actually be the range of one crystal. If you want full coverage to 6.5, you would need two crystals and would actually get 5.5 to 6.5 but we can't transmit there anyway, and that band is fun to listen to in the evenings.
73,
Don, WB5HAK

4995. Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 15:37:32 UTC
From: billykatzz
Topic: 4986 Message: 4995

Garey:

Thanks for the info. My TR4Cw doesn't come close to 200 W output, more like 120 with fresh 6JB6's, according to the wattmeter on my MN4 tuner. However, I'm loading up the rig to a max of 350 mA on the plate current, according to an addendum in my manual.

I'm operating CW only, so what stupid thing am I doing/not doing?

Bill in Pasadena
NK6Q

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> The SB-200 only buys you one s-unit. (200 W output > 500 W output.)
> Not to mention that you have to dump more than half of that 200W
> 'somewhere else' as heat.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> billykatzz wrote:
> > I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.
> >
> > Are there any considerations about pairing the TR4Cw with the SB-200?
> >
> > TNX ES 73
> >
> > Bill in Pasadena
> > NK6Q
> >
> >
> >
> >
>

4996. TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 16:38:48 UTC
From: billykatzz
Topic: 4996 Message: 4996

Sorry for all the dumb questions, but can't find any Elmers around Pasadena who know tube gear. How sad.

I may have finally figured out how to get my MN4 and G5RV to cooperate and let me get on 80 without a bazillion-to-one SWR. However, I'm confused about several issues:

I've found on 80 that I get a dip on the plate control at around the 9-10 O'Clock position. I found a stronger dip reading around 3 O'Clock, but the SWR on the tuner/antenna combo goes way up and seems to "like" the other dip better. What's going on here?

Also, after tuning the rig up in what I "think" is the correct method on 80 meters, according to the internal wattmeter in the MN4 I'm only getting about 80 watts output.

So what am I doing wrong?

Bill in Pasadena
NK6Q (the "N" stands for Novice)

4997. Re: [DrakeRadio] TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 16:57:09 UTC
From: Don Cunningham
Topic: 4996 Message: 4997

Bill,
First question, do you have a dummy load that will work with the TR4?? If so, are you initially tuning into the dummy load? The correct way to tune especially a "wide range" antenna like the G5RV is to use the dummy load to tune up the rig, THEN adjust the MN4 to get the SWR down to a reasonable level.

What I do here is use my MFJ antenna analyzer into the tuner to get the best match I can and use that as a starting point. I write down those settings, and can put the tuner on them in a heartbeat, tune the rig to the dummy load, then switch to the tuner and be VERY close to right with less wear on the finals. I don't have an answer for the "double peak" if it is to a dummy load. If you get that to the G5RV, then that's another matter and may reflect some strange impedances in the antenna. Hope that helps and is understandable, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

4998. 300 watt Tuner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 17:07:20 UTC
From: trapp7318
Topic: 4998 Message: 4998

Hi Everyone:
I am interested in getting a 300 watt tuner for my Drake TR4,I am looking at possibly a MN4 or a MFJ 945,948 or 949 in good electrical and physical condition.
I have been trying to trade or sell(In QTH.com), a small mfj mini tuner and 300 watt meter to trade or purchase a beefier tuner, and to date I have had no luck in either trading for a better tuner or selling what I have and purchasing one.
Can anyone in the group help.
Thank you
Wayne

4999. Re: TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 17:17:59 UTC
From: billykatzz
Topic: 4996 Message: 4999

Don:

Yes, I tune into a dummy load prior to switching to the tuner/antenna, and do notice the double dip on the dummy load, which theoretically is a "perfect" resistive load, on 80 meters.

And, yes, I also have my crib sheet with the settings written down. I've found with different weather conditions (like rain) or outdoor temperatures, and at different frequencies, of course, the settings can change.

In regard to my wattage output, I'm wondering if the MN4's wattmeter could be inaccurate?

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Bill,
> First question, do you have a dummy load that will work with the TR4?? If so, are you initially tuning into the dummy load? The correct way to tune especially a "wide range" antenna like the G5RV is to use the dummy load to tune up the rig, THEN adjust the MN4 to get the SWR down to a reasonable level.
>
> What I do here is use my MFJ antenna analyzer into the tuner to get the best match I can and use that as a starting point. I write down those settings, and can put the tuner on them in a heartbeat, tune the rig to the dummy load, then switch to the tuner and be VERY close to right with less wear on the finals. I don't have an answer for the "double peak" if it is to a dummy load. If you get that to the G5RV, then that's another matter and may reflect some strange impedances in the antenna. Hope that helps and is understandable, hi.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

5000. Re: [DrakeRadio] Re: TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 17:44:17 UTC
From: Don Cunningham
Topic: 4996 Message: 5000

Bill,
It soundws like you have a good proceedure down and are using it just right. Yes, the wattmeter could be inaccurate, BUT remember that the meter is reading average power, not peak on SSB. Isn't "tune" mode a bit less power than full output?? I haven't messed with my TR4 in long enough that I have forgotten, hi. However, if you are in CW with the key down, then I would expect a bit more from the TR4 than 85 watts. Remember that the specs are written usually in input values, which is what we had to deal with when these were manufactured, and actual output is much less (like 1/2) of stated ratings, but my T4X(x)'s do more like 120w PEP two tubes, so you are correct that the 85 watts you are getting is low. That could be weak finals, weak driver tube, alignment needed, etc. Garey may have more tips later in the morning.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5001. Re: [DrakeRadio] TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 17:51:20 UTC
From: Paul Kraemer
Topic: 4996 Message: 5001

Bill
I think you could avoid a lot of confusion if you include in your arsenal a 50 ohm dummy load.
1. Set the antenna tuner to the bypass position and tune the rig into the dummy load and leave those settings alone
2. Set the antenna tuner to be inline and tune the antenna tuner to match the antenna or load to the transmitter
3. Touch up the plate tuning on the rig if necessary but it shouldn't be required or very much unless something is really wrong like the antenna tuner won't match the load.
4. Enjoy the operating
Paul K0UYA

----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, February 25, 2011 10:38 AM
Subject: [DrakeRadio] TR4Cw double dip on 80?

> Sorry for all the dumb questions, but can't find any Elmers around
> Pasadena who know tube gear. How sad.
>
> I may have finally figured out how to get my MN4 and G5RV to cooperate and
> let me get on 80 without a bazillion-to-one SWR. However, I'm confused
> about several issues:
>
> I've found on 80 that I get a dip on the plate control at around the 9-10
> O'Clock position. I found a stronger dip reading around 3 O'Clock, but
> the SWR on the tuner/antenna combo goes way up and seems to "like" the
> other dip better. What's going on here?
>
> Also, after tuning the rig up in what I "think" is the correct method on
> 80 meters, according to the internal wattmeter in the MN4 I'm only getting
> about 80 watts output.
>
> So what am I doing wrong?
>
> Bill in Pasadena
> NK6Q (the "N" stands for Novice)
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
>

5002. Re: TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 18:36:48 UTC
From: billykatzz
Topic: 4996 Message: 5002

Paul:

Already done! One of my first purchases before I tried going back on the air was a dummy load. I wouldn't think about tuning the transmitter directly into the antenna.

I've been operating the TR4Cw for about a year now and have had good reports on 40 and 20.

When I was a young ham back in the mid-60's, 80 meters had always been untouchable because A) I didn't have the yardspace to erect a full 80 meter dipole B) None of my ham friends was aware of G5RV or W3DZZ antennas C) matching tuners didn't seem that widespread back then. Consequently my current fascination with 80 meters (160 meters? Fugedaboudit!!)

Bill, NK6Q

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> Bill
> I think you could avoid a lot of confusion if you include in your arsenal a
> 50 ohm dummy load.
> 1. Set the antenna tuner to the bypass position and tune the rig into the
> dummy load and leave those settings alone
> 2. Set the antenna tuner to be inline and tune the antenna tuner to match
> the antenna or load to the transmitter
> 3. Touch up the plate tuning on the rig if necessary but it shouldn't be
> required or very much unless something is really wrong like the antenna
> tuner won't match the load.
> 4. Enjoy the operating
> Paul K0UYA
>
> ----- Original Message -----
> From: "billykatzz" <rsilvercat@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, February 25, 2011 10:38 AM
> Subject: [DrakeRadio] TR4Cw double dip on 80?
>
>
> > Sorry for all the dumb questions, but can't find any Elmers around
> > Pasadena who know tube gear. How sad.
> >
> > I may have finally figured out how to get my MN4 and G5RV to cooperate and
> > let me get on 80 without a bazillion-to-one SWR. However, I'm confused
> > about several issues:
> >
> > I've found on 80 that I get a dip on the plate control at around the 9-10

> > O'Clock position. I found a stronger dip reading around 3 O'Clock, but
> > the SWR on the tuner/antenna combo goes way up and seems to "like" the
> > other dip better. What's going on here?
> >
> > Also, after tuning the rig up in what I "think" is the correct method on
> > 80 meters, according to the internal wattmeter in the MN4 I'm only getting
> > about 80 watts output.
> >
> > So what am I doing wrong?
> >
> > Bill in Pasadena
> > NK6Q (the "N" stands for Novice)
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

5003. Re: [DrakeRadio] Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 19:21:06 UTC
From: Garey Barrell
Topic: 4986 Message: 5003

Bill -

Nothing 'stupid' !! The 200 W I quoted is MAX output, which is where most people run them. The reduced plate current in that addendum was recommended after the FCC reduced the allowable levels of spurious, IMD and harmonic output some years ago. I find it interesting that whatever the problem is, the T-4X(any) transmitters with two tubes are limited to 340 mA also, which results in the same power output from two tubes as with three.! These transmitters are exempted by 'grandfathering' I believe, but certainly we don't want to put out more trash than necessary.

I can't find anyone who _KNOWS_ what the problem is/was at the higher levels, but I believe it is related primarily to IMD, so if you are going to use an amp, then this becomes just that much more of a problem. I don't think that the problem is significant on CW, but could be on SSB.

All that said, I'd bet you could run the full 200W output on CW and no-one would ever notice anything different. Certainly NOT the FCC! :-) Of course from 120 to 200W we're talking 2 dB or less than a half of an S-Unit. And with 120 to 600W we're up to 7 dB, or a little less than an S-Unit and a half!! Probably not noticeable in a typical QSO, but perhaps the difference in a DX pileup! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
> Garey:
>
> Thanks for the info. My TR4Cw doesn't come close to 200 W output, more like 120 with fresh 6JB6's, according to the wattmeter on my MN4 tuner. However, I'm loading up the rig to a max of 350 mA on the plate current, according to an addendum in my manual.
>
> I'm operating CW only, so what stupid thing am I doing/not doing?
>
> Bill in Pasadena
> NK6Q
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> The SB-200 only buys you one s-unit. (200 W output> 500 W output.)

>> Not to mention that you have to dump more than half of that 200W
>> 'somewhere else' as heat.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
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>>
>> billykatzz wrote:
>>
>>> I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.
>>>
>>> Are there any considerations about pairing the TR4Cw with the SB-200?
>>>
>>> TNX ES 73
>>>
>>> Bill in Pasadena
>>> NK6Q
>>>

5004. Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 21:29:20 UTC
From: jb
Topic: 4986 Message: 5004

...or maybe the SB-220...if you can find one. 1k watts. Was looking for one myself until I stumbled onto my L-4B. Between the two, I definately go with the Drake though. Street prices were close enough to not flinch at it. Might need to be patient though.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> OK...finally sunk in what you were saying...yeah....not really worth the
> cost.....
>
> However, with the L-4B.................<<GRIN>>
>
> LOL.
>
> Joe - WA6RKN
>
> ----- Original Message -----
> From: "Garey Barrell" <k4oah@...>
> Subject: Re: [DrakeRadio] TR4Cw with SB-200
>
>
> > Joe -
> >
> > Precisely. 200 W you have now, to 600 W is 4.8 dB. One Drake S-unit is
> > 5 dB. Plus you still gotta dump 120 W 'somewhere'.
> >
> > Hardly seems worth the cost / complication ??
>

5005. Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 21:46:31 UTC
From: Fraser
Topic: 5005 Message: 5005

I have a TR-4, a Shure 450 mic with an XLR plug, and a Switchcraft plug to replace the XLR.

The mic has White and Green wires inside a foil shield, then Red and Black

The Switchcraft has 3 connections, Ring, Tip, Shield.

I'm guessing:
Tip to Red (for PTT)
Ring to White (for Mic)
Shield to Black and Green together (for Ground)

?

5006. Re: [DrakeRadio] Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 21:51:30 UTC
From: Lee Hiers
Topic: 5005 Message: 5006

http://www.shure.com/idc/groups/tech_pubs/@global_managed/documents/webcontent/us_pro_450seriesii_ug.pdf

On Fri, Feb 25, 2011 at 4:46 PM, Fraser <fraser_w3utd@...> wrote:

>
>
> I have a TR-4, a Shure 450 mic with an XLR plug, and a Switchcraft plug to
> replace the XLR.
>
> The mic has White and Green wires inside a foil shield, then Red and Black
>
> The Switchcraft has 3 connections, Ring, Tip, Shield.
>
> I'm guessing:
> Tip to Red (for PTT)
> Ring to White (for Mic)
> Shield to Black and Green together (for Ground)
>
>

[Non-text portions of this message have been removed]

5007. Re: [DrakeRadio] Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 22:55:29 UTC
From: Jim Shorney
Topic: 5005 Message: 5007

On Fri, 25 Feb 2011 21:46:31 -0000, Fraser wrote:

>I have a TR-4, a Shure 450 mic with an XLR plug, and a Switchcraft plug to replace the XLR.

>The mic has White and Green wires inside a foil shield, then Red and Black

>The Switchcraft has 3 connections, Ring, Tip, Shield.

>I'm guessing:
>Tip to Red (for PTT)
>Ring to White (for Mic)
>Shield to Black and Green together (for Ground)

This may be of help:

http://www.shure.com/idc/groups/tech_pubs/@global_managed/documents/webcontent/us_pro_450seriesii_ug.pdf

http://www.shure.com/idc/groups/tech_pubs/@global_managed/documents/webcontent/us_pro_450seriesii_ug.pdf

Between the two, you should be able to figure out what you have. The mic will beed to be configured for high impedance for the TR-4.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5008. Re: Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 23:21:43 UTC
From: Fraser
Topic: 5005 Message: 5008

I have 450 not the 450 Series II but it looks similar. Am I Balanced or unbalanced? :)

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Fri, 25 Feb 2011 21:46:31 -0000, Fraser wrote:
>
> >I have a TR-4, a Shure 450 mic with an XLR plug, and a Switchcraft plug to replace the XLR.
>
> >The mic has White and Green wires inside a foil shield, then Red and Black
>
> >The Switchcraft has 3 connections, Ring, Tip, Shield.
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> >I'm guessing:
> >Tip to Red (for PTT)
> >Ring to White (for Mic)
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> http://www.shure.com/idc/groups/tech_pubs/@global_managed/documents/webcontent/us_pro_450seriesii_ug.pdf
>
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>
> Between the two, you should be able to figure out what you have. The mic will beed to be configured for high impedance for the TR-4.
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> 73
>
> -Jim
>
>
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>
>
> --
> Ham Radio NU0C
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>

5009. Re: [DrakeRadio] Re: Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-25 23:57:47 UTC
From: Jim Shorney
Topic: 5005 Message: 5009

On Fri, 25 Feb 2011 23:21:43 -0000, Fraser wrote:

>I have 450 not the 450 Series II but it looks similar. Am I Balanced or unbalanced? :)

Spec sheet sent by direct mail. I don't know about you personally, but the TR-4
is unbalanced. :D

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://www.nebraskaghosts.org

5010. Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 00:05:42 UTC
From: billykatzz
Topic: 4986 Message: 5010

Garey:

Thanks for the info. That's kind of what I thought: if I adjusted the transmitter to max output rather than maintaining it at 350 mA I'd probably see close to 200 watts out.

Maybe you can address the other thread I started earlier today regarding observing two locations of dips on the plate control setting on 80 meters. One results in a reasonably low SWR tuning when I switch to my MN4/G5RV combo; the other dip seems more pronounced, but the SWR reading is through the roof and can't be resolved with the transmatch!!

I'm new to operating the TR4 on 80 meters: according to that addendum tuneup is different on that frequency too. Is it abnormal to find two settings that result in a plate tuning dip on the unit?

regards

Bill in Pasadena, NK6Q

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
> Nothing 'stupid' !! The 200 W I quoted is MAX output, which is where
> most people run them. The reduced plate current in that addendum was
> recommended after the FCC reduced the allowable levels of spurious, IMD
> and harmonic output some years ago. I find it interesting that whatever
> the problem is, the T-4X(any) transmitters with two tubes are limited to
> 340 mA also, which results in the same power output from two tubes as
> with three.! These transmitters are exempted by 'grandfathering' I
> believe, but certainly we don't want to put out more trash than necessary.
>
> I can't find anyone who _KNOWS_ what the problem is/was at the higher
> levels, but I believe it is related primarily to IMD, so if you are
> going to use an amp, then this becomes just that much more of a
> problem. I don't think that the problem is significant on CW, but could
> be on SSB.
>
> All that said, I'd bet you could run the full 200W output on CW and
> no-one would ever notice anything different. Certainly NOT the FCC!
> :-) Of course from 120 to 200W we're talking 2 dB or less than a half
> of an S-Unit. And with 120 to 600W we're up to 7 dB, or a little less
> than an S-Unit and a half!! Probably not noticeable in a typical QSO,
> but perhaps the difference in a DX pileup! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA

>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> <www.k4oah.com>
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>
> billykatzz wrote:
> > Garey:
> >
> > Thanks for the info. My TR4Cw doesn't come close to 200 W output, more like 120 with fresh 6JB6's, according to the wattmeter on my MN4 tuner. However, I'm loading up the rig to a max of 350 mA on the plate current, according to an addendum in my manual.
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> > I'm operating CW only, so what stupid thing am I doing/not doing?
> >
> > Bill in Pasadena
> > NK6Q
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> The SB-200 only buys you one s-unit. (200 W output> 500 W output.)
> >> Not to mention that you have to dump more than half of that 200W
> >> 'somewhere else' as heat.
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> >> 73, Garey - K4OAH
> >> Glen Allen, VA
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> >>
> >> billykatzz wrote:
> >>
> >>> I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.
> >>>
> >>> Are there any considerations about pairing the TR4Cw with the SB-200?
> >>>
> >>> TNX ES 73
> >>>
> >>> Bill in Pasadena
> >>> NK6Q
> >>>
>

5011. Re: Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 00:25:20 UTC
From: Fraser
Topic: 5005 Message: 5011

Got it wired, it seems to work, I'll get on the air later. I'm feeling unbalanced today anyway.

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Fri, 25 Feb 2011 23:21:43 -0000, Fraser wrote:
>
> >I have 450 not the 450 Series II but it looks similar. Am I Balanced or unbalanced? :)
>
>
> Spec sheet sent by direct mail. I don't know about you personally, but the TR-4
> is unbalanced. :D
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> 73
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>

5012. Re: [DrakeRadio] Re: Sorry, I have to ask a silly question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 01:18:47 UTC
From: Jim Shorney
Topic: 5005 Message: 5012

On Sat, 26 Feb 2011 00:25:20 -0000, Fraser wrote:

>Got it wired, it seems to work, I'll get on the air later. I'm feeling unbalanced today anyway.

Good to know, on both counts.

It should sound very good.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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5013. Re: [DrakeRadio] Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 03:33:25 UTC
From: Garey Barrell
Topic: 4986 Message: 5013

Bill -

Most likely cause is that you are tuning up on a spurious signal with the 'crazy' dip. You should start with the LOAD control at "0". I don't recall, but I would expect the PLATE control to dip around 4-5 on it's scale, but that's just a guess. If the other dip is above say 5, then I'd suspect that perhaps you're tuning on the PTO signal at around 5 MHz. This would indicate an alignment problem, since the PTO signal out of the mixer shouldn't be that high. If you are going directly into the 50 ohm dummy load, it should tune ok and show power with little or no VSWR. But if you're trying to tune it into the antenna via the tuner, you may not be able to find a match.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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billykatzz wrote:
>
>
>
>
>
>
>
> Garey:
>
> Thanks for the info. That's kind of what I thought: if I adjusted the transmitter to max output rather than maintaining it at 350 mA I'd probably see close to 200 watts out.
>
> Maybe you can address the other thread I started earlier today regarding observing two locations of dips on the plate control setting on 80 meters. One results in a reasonably low SWR tuning when I switch to my MN4/G5RV combo; the other dip seems more pronounced, but the SWR reading is through the roof and can't be resolved with the transmatch!!
>
> I'm new to operating the TR4 on 80 meters: according to that addendum tuneup is different on that frequency too. Is it abnormal to find two settings that result in a plate tuning dip on the unit?
>
> regards
>
> Bill in Pasadena, NK6Q
>

> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Bill -
>>
>> Nothing 'stupid' !! The 200 W I quoted is MAX output, which is where
>> most people run them. The reduced plate current in that addendum was
>> recommended after the FCC reduced the allowable levels of spurious, IMD
>> and harmonic output some years ago. I find it interesting that whatever
>> the problem is, the T-4X(any) transmitters with two tubes are limited to
>> 340 mA also, which results in the same power output from two tubes as
>> with three.! These transmitters are exempted by 'grandfathering' I
>> believe, but certainly we don't want to put out more trash than necessary.
>>
>> I can't find anyone who _KNOWS_ what the problem is/was at the higher
>> levels, but I believe it is related primarily to IMD, so if you are
>> going to use an amp, then this becomes just that much more of a
>> problem. I don't think that the problem is significant on CW, but could
>> be on SSB.
>>
>> All that said, I'd bet you could run the full 200W output on CW and
>> no-one would ever notice anything different. Certainly NOT the FCC!
>> :-) Of course from 120 to 200W we're talking 2 dB or less than a half
>> of an S-Unit. And with 120 to 600W we're up to 7 dB, or a little less
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>> billykatzz wrote:
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>>>
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>>> Bill in Pasadena
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>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>

>>>> The SB-200 only buys you one s-unit. (200 W output> 500 W output.)
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>>>>>
>>>>>
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> ------------------------------------
>
> Yahoo! Groups Links
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5014. Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 17:12:21 UTC
From: billykatzz
Topic: 4986 Message: 5014

Garey:

That's my procedure. As recommended in that addendum, for operation on 80 the LOAD control stays at "0", fully CCW (counter-clockwise), as it states.

I'm tuning into a 50 ohm dummy load, adjusting the GAIN control until I get a reading, adjusting the RF TUNE for highest reading, then adjusting the PLATE for the dip. The first dip is around 2-to-3 on the the dial, the more pronounced dip is around 7-8. But the SWR is crazy at the 7-8 position and the MN4 can't even attempt to bring it down.

I tried working 80 last night and heard arcing in the MN4 at the 80B position, switched to 80A and got a near 1:1 match. Afterwards, I worked a station and received a 599 +15 report, but it was only a couple hundred miles away. At least it's nice to know some signal is getting out.

I think I remember why I left ham radio in the first place back in '70.

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
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> the 'crazy' dip. You should start with the LOAD control at "0". I
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> >>>> 'somewhere else' as heat.
> >>>>
> >>>> 73, Garey - K4OAH
> >>>> Glen Allen, VA
> >>>>
> >>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >>>> and TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
> >>>>
> >>>>
> >>>> billykatzz wrote:
> >>>>
> >>>>
> >>>>> I'm considering QRO and thinking the Heathkit SB-200 might be the least expensive way to go.
> >>>>>
> >>>>> Are there any considerations about pairing the TR4Cw with the SB-200?
> >>>>>
> >>>>> TNX ES 73
> >>>>>
> >>>>> Bill in Pasadena
> >>>>> NK6Q
> >>>>>
> >>>>>
> >>
> >

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> >
> > Yahoo! Groups Links
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>

5015. Re: [DrakeRadio] Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 18:44:07 UTC
From: Garey Barrell
Topic: 4986 Message: 5015

Bill -

If you switch the tuner OUT, ('straight through',) and tune into the
dummy load on 80B (7-8?), is the SWR ok?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
> Garey:
>
> That's my procedure. As recommended in that addendum, for operation on 80 the LOAD control stays at "0", fully CCW (counter-clockwise), as it states.
>
> I'm tuning into a 50 ohm dummy load, adjusting the GAIN control until I get a reading, adjusting the RF TUNE for highest reading, then adjusting the PLATE for the dip. The first dip is around 2-to-3 on the the dial, the more pronounced dip is around 7-8. But the SWR is crazy at the 7-8 position and the MN4 can't even attempt to bring it down.
>
> I tried working 80 last night and heard arcing in the MN4 at the 80B position, switched to 80A and got a near 1:1 match. Afterwards, I worked a station and received a 599 +15 report, but it was only a couple hundred miles away. At least it's nice to know some signal is getting out.
>
> I think I remember why I left ham radio in the first place back in '70.
>
> Bill, NK6Q
>
> --- InDrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Bill -
>>
>> Most likely cause is that you are tuning up on a spurious signal with
>> the 'crazy' dip. You should start with the LOAD control at "0". I
>> don't recall, but I would expect the PLATE control to dip around 4-5 on
>> it's scale, but that's just a guess. If the other dip is above say 5,
>> then I'd suspect that perhaps you're tuning on the PTO signal at around
>> 5 MHz. This would indicate an alignment problem, since the PTO signal
>> out of the mixer shouldn't be that high. If you are going directly into
>> the 50 ohm dummy load, it should tune ok and show power with little or
>> no VSWR. But if you're trying to tune it into the antenna via the
>> tuner, you may not be able to find a match.

>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> billykatzz wrote:
>>
>>>
>>>
>>>
>>>
>>>
>>> Garey:
>>>
>>> Thanks for the info. That's kind of what I thought: if I adjusted the transmitter to max output rather than maintaining it at 350 mA I'd probably see close to 200 watts out.
>>>
>>> Maybe you can address the other thread I started earlier today regarding observing two locations of dips on the plate control setting on 80 meters. One results in a reasonably low SWR tuning when I switch to my MN4/G5RV combo; the other dip seems more pronounced, but the SWR reading is through the roof and can't be resolved with the transmatch!!
>>>
>>> I'm new to operating the TR4 on 80 meters: according to that addendum tuneup is different on that frequency too. Is it abnormal to find two settings that result in a plate tuning dip on the unit?
>>>
>>> regards
>>>
>>> Bill in Pasadena, NK6Q
>>>

5016. FS: DRAKE MS4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 21:50:19 UTC
From: Bry Carling
Topic: 5016 Message: 5016

For sale: Exceptionally nice DRAKE MS4 Speaker.
Selling for $125.00 plus shipping

Pictures and details are available at:

http://www.af4k.com/radios.htm

73 - Brian "Bry" Carling, AF4K

[Non-text portions of this message have been removed]

5017. FS: Exceptional Drake MS4 speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-26 22:26:51 UTC
From: Bry Carling
Topic: 5017 Message: 5017

FOR SALE: Drake MS4 speaker - excellent, working condition

Extra clean, nice collector condition. Unbeatable appearance.
Drake 4-line station speaker in excellent, near mint condition.

Available for $125.00 plus shipping

Picture and details at:
http://www.af4k.com/radios.htm

73 - Bry, AF4K

[Non-text portions of this message have been removed]

5018. 30M Crystals?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 01:23:51 UTC
From: Bob Macklin
Topic: 5018 Message: 5018

I have a T4X. I want to get a crystal for 10MHz WWV and 30M.

The manual specifies a 20.8MHz crystal instead of a 21.1MHz like my R4A receiver.

Following the general formula it should a 21.1MHz but there are apparent problems in that region?

Can anyone enlighten me?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

5019. RE: [DrakeRadio] 30M Crystals?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 01:42:20 UTC
From: Walter Milton
Topic: 5018 Message: 5019

Bob,

I have the 21.1 MHZ crystal in my T-4XC and I have not had any problems yet. It has been in there since the 80's.

Walt KA2NJF

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Macklin
Sent: Saturday, February 26, 2011 8:24 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] 30M Crystals?

I have a T4X. I want to get a crystal for 10MHz WWV and 30M.

The manual specifies a 20.8MHz crystal instead of a 21.1MHz like my R4A receiver.

Following the general formula it should a 21.1MHz but there are apparent problems in that region?

Can anyone enlighten me?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5020. Re: TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 02:05:19 UTC
From: Ralph
Topic: 4996 Message: 5020

--- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@...> wrote:
>
> Don:
>
> Yes, I tune into a dummy load prior to switching to the tuner/antenna, and do notice the double dip on the dummy load, which theoretically is a "perfect" resistive load, on 80 meters.
>
> And, yes, I also have my crib sheet with the settings written down. I've found with different weather conditions (like rain) or outdoor temperatures, and at different frequencies, of course, the settings can change.
>
> In regard to my wattage output, I'm wondering if the MN4's wattmeter could be inaccurate?
>
> Bill, NK6Q
>

YOu are probably tuning to a spur or maybe doubling in the final to get you to 40 meters. When going into a dummy load, it is 50 ohms at all frequencies so no reflected power will be seen on a swr meter. . If you tune to the second dip and then go into the antenna tuner, if set to 80 meters you will not be able to obtain a good match. If you set the tuner to 40 meters, you probably will have a good match to the antenna. This is not recommended as you may even be out of the ham band depending on the frequency you are actually putting out.

5021. Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 07:40:01 UTC
From: billykatzz
Topic: 4986 Message: 5021

Garey:

Yep, SWR is fine, 1:1 into the dummy load on 80 meter setting.

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
> If you switch the tuner OUT, ('straight through',) and tune into the
> dummy load on 80B (7-8?), is the SWR ok?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> billykatzz wrote:
> > Garey:
> >
> > That's my procedure. As recommended in that addendum, for operation on 80 the LOAD control stays at "0", fully CCW (counter-clockwise), as it states.
> >
> > I'm tuning into a 50 ohm dummy load, adjusting the GAIN control until I get a reading, adjusting the RF TUNE for highest reading, then adjusting the PLATE for the dip. The first dip is around 2-to-3 on the the dial, the more pronounced dip is around 7-8. But the SWR is crazy at the 7-8 position and the MN4 can't even attempt to bring it down.
> >
> > I tried working 80 last night and heard arcing in the MN4 at the 80B position, switched to 80A and got a near 1:1 match. Afterwards, I worked a station and received a 599 +15 report, but it was only a couple hundred miles away. At least it's nice to know some signal is getting out.
> >
> > I think I remember why I left ham radio in the first place back in '70.
> >
> > Bill, NK6Q
> >
> > --- InDrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Bill -
> >>
> >> Most likely cause is that you are tuning up on a spurious signal with
> >> the 'crazy' dip. You should start with the LOAD control at "0". I

> >> don't recall, but I would expect the PLATE control to dip around 4-5 on
> >> it's scale, but that's just a guess. If the other dip is above say 5,
> >> then I'd suspect that perhaps you're tuning on the PTO signal at around
> >> 5 MHz. This would indicate an alignment problem, since the PTO signal
> >> out of the mixer shouldn't be that high. If you are going directly into
> >> the 50 ohm dummy load, it should tune ok and show power with little or
> >> no VSWR. But if you're trying to tune it into the antenna via the
> >> tuner, you may not be able to find a match.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> billykatzz wrote:
> >>
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> Garey:
> >>>
> >>> Thanks for the info. That's kind of what I thought: if I adjusted the transmitter to max output rather than maintaining it at 350 mA I'd probably see close to 200 watts out.
> >>>
> >>> Maybe you can address the other thread I started earlier today regarding observing two locations of dips on the plate control setting on 80 meters. One results in a reasonably low SWR tuning when I switch to my MN4/G5RV combo; the other dip seems more pronounced, but the SWR reading is through the roof and can't be resolved with the transmatch!!
> >>>
> >>> I'm new to operating the TR4 on 80 meters: according to that addendum tuneup is different on that frequency too. Is it abnormal to find two settings that result in a plate tuning dip on the unit?
> >>>
> >>> regards
> >>>
> >>> Bill in Pasadena, NK6Q
> >>>
>

5022. Re: TR4Cw double dip on 80?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 07:48:14 UTC
From: billykatzz
Topic: 4996 Message: 5022

Ralph:

Aha, you may have something there. I figured it was some sort of phenomenon curious perhaps to thermionic finals and "dipped" output.

I'm assuming the rig is probably functioning properly and I just stumbled upon a quirk of the electronics/harmonics.

If I start seeing sparks and smoke I'll post a message.

Bill, NK6Q

--- In DrakeRadio@yahoogroups.com, "Ralph" <ku4pt@...> wrote:
>
>
>
> --- In DrakeRadio@yahoogroups.com, "billykatzz" <rsilvercat@> wrote:
> >
> > Don:
> >
> > Yes, I tune into a dummy load prior to switching to the tuner/antenna, and do notice the double dip on the dummy load, which theoretically is a "perfect" resistive load, on 80 meters.
> >
> > And, yes, I also have my crib sheet with the settings written down. I've found with different weather conditions (like rain) or outdoor temperatures, and at different frequencies, of course, the settings can change.
> >
> > In regard to my wattage output, I'm wondering if the MN4's wattmeter could be inaccurate?
> >
> > Bill, NK6Q
> >
>
> YOu are probably tuning to a spur or maybe doubling in the final to get you to 40 meters. When going into a dummy load, it is 50 ohms at all frequencies so no reflected power will be seen on a swr meter. . If you tune to the second dip and then go into the antenna tuner, if set to 80 meters you will not be able to obtain a good match. If you set the tuner to 40 meters, you probably will have a good match to the antenna. This is not recommended as you may even be out of the ham band depending on the frequency you are actually putting out.
>

5023. Apology

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 14:33:24 UTC
From: Bry Carling
Topic: 5023 Message: 5023

Sorry for the duplicate message about the MS4 speaker. It has been sold.

I still have the Drake TR3 available.

Bry, AF4K

[Non-text portions of this message have been removed]

5024. RE: 30M Crystals?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 14:33:23 UTC
From: Bry Carling
Topic: 5018 Message: 5024

Bob - I think Drake recokoned that there was some reduction in sensitivity at that range and thus recommended the 20.8 MHz crystals.

I know guys who have used 20.6 MHz ones too.

I have both the 20.8 MHz and 21.1 MHz crystals available.

73 - Bry, AF4K

Posted by: "Bob Macklin" macklinbob@... k5myj

I have a T4X. I want to get a crystal for 10MHz WWV and 30M.

The manual specifies a 20.8MHz crystal instead of a 21.1MHz like my R4A receiver.

Following the general formula it should a 21.1MHz but there are apparent problems in that region?

Can anyone enlighten me?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

5025. Re: [DrakeRadio] Re: TR4Cw with SB-200

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 14:41:48 UTC
From: Garey Barrell
Topic: 4986 Message: 5025

Bill -

You didn't specify, but I assume you mean SWR is fine on BOTH tuning spots into the dummy load.

I suspect you are tuning up on the PTO frequency around 5 MHz when you dip the plate at that higher reading, although I would expect the Mixer tuning (RF TUNE) to be able to 'discriminate' against it. You're not retuning RF TUNE when you move to the higher dip are you? If the radio is in correct alignment, RF TUNE should peak near the center of it's range at 3.8 MHz.

That would be the T7 adjustments in the Alignment procedure, but it can be risky doing just part of the procedure. Simplest answer is just don't tune to the higher reading!!

There is a rule de thumb with transmitters, always start tuning at the maximum capacitance point and tune to the FIRST dip. Any additional dips are usually a spur or second harmonic of the desired frequency.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
> Garey:
>
> Yep, SWR is fine, 1:1 into the dummy load on 80 meter setting.
>
> Bill, NK6Q
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Bill -
>>
>> If you switch the tuner OUT, ('straight through',) and tune into the
>> dummy load on 80B (7-8?), is the SWR ok?
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>> 73, Garey - K4OAH
>> Glen Allen, VA
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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
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>> billykatzz wrote:
>>
>>> Garey:
>>>
>>> That's my procedure. As recommended in that addendum, for operation on 80 the LOAD control stays at "0", fully CCW (counter-clockwise), as it states.
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>>> I tried working 80 last night and heard arcing in the MN4 at the 80B position, switched to 80A and got a near 1:1 match. Afterwards, I worked a station and received a 599 +15 report, but it was only a couple hundred miles away. At least it's nice to know some signal is getting out.
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>>>
>>> Bill, NK6Q
>>>
>>> --- InDrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
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>>>
>>>> Bill -
>>>>
>>>> Most likely cause is that you are tuning up on a spurious signal with
>>>> the 'crazy' dip. You should start with the LOAD control at "0". I
>>>> don't recall, but I would expect the PLATE control to dip around 4-5 on
>>>> it's scale, but that's just a guess. If the other dip is above say 5,
>>>> then I'd suspect that perhaps you're tuning on the PTO signal at around
>>>> 5 MHz. This would indicate an alignment problem, since the PTO signal
>>>> out of the mixer shouldn't be that high. If you are going directly into
>>>> the 50 ohm dummy load, it should tune ok and show power with little or
>>>> no VSWR. But if you're trying to tune it into the antenna via the
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>>>>
>>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>>>> and TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>> billykatzz wrote:
>>>>
>>>>
>>>>>

>>>>>
>>>>>
>>>>>
>>>>> Garey:
>>>>>
>>>>> Thanks for the info. That's kind of what I thought: if I adjusted the transmitter to max output rather than maintaining it at 350 mA I'd probably see close to 200 watts out.
>>>>>
>>>>> Maybe you can address the other thread I started earlier today regarding observing two locations of dips on the plate control setting on 80 meters. One results in a reasonably low SWR tuning when I switch to my MN4/G5RV combo; the other dip seems more pronounced, but the SWR reading is through the roof and can't be resolved with the transmatch!!
>>>>>
>>>>> I'm new to operating the TR4 on 80 meters: according to that addendum tuneup is different on that frequency too. Is it abnormal to find two settings that result in a plate tuning dip on the unit?
>>>>>
>>>>> regards
>>>>>
>>>>> Bill in Pasadena, NK6Q
>>>>>
>

5026. AC4R Supply Rebuild Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 22:24:45 UTC
From: Fraser
Topic: 5026 Message: 5026

I have finished wiring the AC4R board, turned it on and at least nothing blew up. A good day so far...

I went through the power supply checklist based on a page on WB4HFN's site, and all voltages check out except, I'm confused by:

"Turn your meter to AC and put either lead in pin #6 and pin #4. You should read around 12-14 volts AC. This is the filament supply voltage."

I have 14VAC on pin #4, but nothing on Pin #6. Should I have something on Pin #6? Is it an either/or, or should the voltage be on both pins?

Fraser, W3UTD

5027. Re: [DrakeRadio] AC4R Supply Rebuild Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 22:53:05 UTC
From: Garey Barrell
Topic: 5026 Message: 5027

Fraser -

Pin 4 is the 12.6 VAC filament lead, Pin 6 is chassis Ground. So you should read 12.6 VAC between 4 and 6 or between 4 and chassis, and 0 VAC between 6 and chassis.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
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> "Turn your meter to AC and put either lead in pin #6 and pin #4. You should read around 12-14 volts AC. This is the filament supply voltage."
>
> I have 14VAC on pin #4, but nothing on Pin #6. Should I have something on Pin #6? Is it an either/or, or should the voltage be on both pins?
>
> Fraser, W3UTD
>
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5028. Drake DR-7 board schematic question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 23:00:30 UTC
From: Hans-Joachim Empel
Topic: 5028 Message: 5028

hello to the group.

i have a small question about the DR-7 board schematic. (page 4-9)

at U9032 (ULN-2003A) Pin 8 and Pin 9 is a resistor 1kOhm connected.

at the connection point from Pin 9 and the resistor is also a arrow (shows to the top of the schematic).

i think the arrow is a indication for connecting this point to ground ore +5V DC. ????????

if anybody can give me please an explanation what this arrow means.

i am rebulding a part of the board (its damaged from the owner before).

Kind regards and many thanks for the help and explanation from Germany

Joachim

DL2388RB

[Non-text portions of this message have been removed]

5029. Re: AC4R Supply Rebuild Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 23:22:55 UTC
From: Fraser
Topic: 5026 Message: 5029

Thanks Garey, Everything checks out ok.

Fraser

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fraser -
>
> Pin 4 is the 12.6 VAC filament lead, Pin 6 is chassis Ground. So you
> should read 12.6 VAC between 4 and 6 or between 4 and chassis, and 0 VAC
> between 6 and chassis.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
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>
> Fraser wrote:
> > I have finished wiring the AC4R board, turned it on and at least nothing blew up. A
good day so far...
> >
> > I went through the power supply checklist based on a page on WB4HFN's site, and all
voltages check out except, I'm confused by:
> >
> > "Turn your meter to AC and put either lead in pin #6 and pin #4. You should read around
12-14 volts AC. This is the filament supply voltage."
> >
> > I have 14VAC on pin #4, but nothing on Pin #6. Should I have something on Pin #6? Is it
an either/or, or should the voltage be on both pins?
> >
> > Fraser, W3UTD
> >
> >
> >
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> > ------------------------------------
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> >
>

5030. Re: [DrakeRadio] Drake DR-7 board schematic question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-27 23:29:45 UTC
From: Garey Barrell
Topic: 5028 Message: 5030

Joachim -

Looks like the person who drew the schematic left off the "+5" that is
appended to all the other upward pointing arrows!!!

U9032 is part of the Display section, so I would assume that it should
go to the +5 output of U9034.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Hans-Joachim Empel wrote:
> hello to the group.
>
> i have a small question about the DR-7 board schematic. (page 4-9)
>
> at U9032 (ULN-2003A) Pin 8 and Pin 9 is a resistor 1kOhm connected.
>
> at the connection point from Pin 9 and the resistor is also a arrow (shows to the top of
the schematic).
>
> i think the arrow is a indication for connecting this point to ground ore +5V DC.
????????
>
> if anybody can give me please an explanation what this arrow means.
>
> i am rebulding a part of the board (its damaged from the owner before).
>
> Kind regards and many thanks for the help and explanation from Germany
>
> Joachim
>
> DL2388RB
>
>

5031. TR7 implosion follow up - more advice needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-02-28 17:20:29 UTC
From: Craig Roberts
Topic: 5031 Message: 5031

Having been distracted by other matters (like the acquisition of a couple of nifty Patcomm rigs) I haven't been working on my TR7 problem lately. It's back on the bench now, though.

To recap (so to speak): After switching modes on 40 meters one day and keying the transmitter, my TR7's display went haywire (cycling around 17.500 MHz or so and at about 33.000MHz on higher bands). The receiver worked normally. Moments later, however, I noted a burning smell and shut down the radio immediately. The bad odor was traced to Q307 on the Transmit Exciter board. I replaced the charred transistor (which had actually damaged the circuit board beneath it) and also replaced the suspected cause of the problem, C2108 -- the 220 uF electrolytic on the Power Supply board.

After reassembly, the radio worked fine and voltages looked good for several hours of operation. Then, a variant of the problem occurred. This time, on receive (after the mode switch was rotated for the 10th time or so) the T/R replay tripped spontaneously, the display went screwy again and the receiver went dead. The transmitter worked okay, however.

I have rebuilt the Transmit Exciter board again, but am afraid to power up the radio. Obviously, C2108 on the 10 volt line was not the problem.

Now I am wondering if C9 -- the 470 uF 'lytic on the Parent Board, might be the culprit. It's on the +10V line and is wired to the mode switch, the cycling of which appears to trigger the failure. Has anyone experienced the failure - leakage or shorting -- of this capacitor? What would be the effect(s) if it did blow?

Thanks and 73,

Craig
W3CRR

5032. Re: [DrakeRadio] TR7 implosion follow up - more advice needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 03:53:49 UTC
From: Jim Shorney
Topic: 5031 Message: 5032

On Mon, 28 Feb 2011 12:20:29 -0500, Craig Roberts wrote:

>The bad odor was traced to Q307 on the
>Transmit Exciter board. I replaced the charred transistor

Did you check the other parts in the circuit? With Q307 nuked, I would have
been real suspicious of Q308 also. It's possible that Q306 could have been
damaged during the original event too. C324 might be worth looking at.

>Now I am wondering if C9 -- the 470 uF 'lytic on the Parent Board, might
>be the culprit.

I wouldn't think so, but given it's age, it wouldn't hurt to replace it anyway.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5033. Re: [DrakeRadio] TR7 implosion follow up - more advice needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 04:16:03 UTC
From: Craig Roberts
Topic: 5031 Message: 5033

/Jim Shorney wrote: "Did you check the other parts in the circuit? With Q307 nuked, I would have been real suspicious of Q308 also. It's possible that Q306 could have been//damaged during the original event too. C324 might be worth looking at."/

Thanks, Jim. I already have replaced all three transistors and will renew the electrolytic, too. Good point.

I am still trying to figure out what caused the original incident, however. I figure I'll just blow the transmit exciter board again if I can't work that out. The power supply board seems fine (besides, I cheated and swapped it our with a known good one).

[Non-text portions of this message have been removed]

5034. Re: [Boatanchors] Drake TR-3 Transceiver or T4X 160m?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 08:41:19 UTC
From: Bry Carling
Topic: 5034 Message: 5034

Yes, the TR3 covers only down to 80m. There is no band for 160m
operation.

Doc, KD4E has sold his for $95.00 and I would sell my similar TR3 radio
for the same price if anyone else is interested. Great price for a fine piece of
Drake 4-line technology.

73 - Brian "Bry" Carling

On 27 Feb 2011 at 21:52, doc@... wrote:

> According to this site:
> http://www.universal-radio.com/catalog/hamhf/TR3.html
>
> The Drake TR-3 covers 160-10m but according to the
> Drake TR-3 sitting on my shelf the bandswitch is only
> labeled for 80-10M.
>
> I was planning to buy a T4X instead (I really only need
> a TX to go with my Pierson KE-93) because it is listed
> for 160-10m.
>
> Are either of these rigs really designed for 160m, please?
>
> --
>
> Thanks!& 73, KD4E
> David Colburn http://kd4e.com
> SE-GA Tailgate - April 9th, 2011
> Have an http://ultrafidian.com day
> I don't google I SEARCH! http://ixquick.com
> Shop Freedom-Friendly http://kd4e.com/of.html
>
> _____
> Boatanchors mailing list
> Boatanchors@...
> https://puck.nether.net/mailman/listinfo/boatanchors

[Non-text portions of this message have been removed]

5035. R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 09:32:49 UTC
From: Galassi
Topic: 4985 Message: 5035

Hi all,
when the receiver (a Drake R-4B) is on, etx mute,NB or Cal, the S-meter dial start from S4 reading.
Same if I switch off the agc, and with the right side S-meter calibration at zero and the preselector away from the tuning range.
When off it turn back to zero, as it should be.
Any idea? I suspect that I will have to replace one or more bulbs..
Thank you and best 73s!
Giampaolo

5036. Re: [DrakeRadio] R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 15:47:49 UTC
From: Garey Barrell
Topic: 4985 Message: 5036

Giampaolo -

I'm not sure I follow your question, but most S-Meter 'drift' problems
are caused by V4, V5 and V1.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Galassi wrote:
> Hi all,
> when the receiver (a Drake R-4B) is on, etx mute,NB or Cal, the S-meter
> dial start from S4 reading.
> Same if I switch off the agc, and with the right side S-meter
> calibration at zero and the preselector away from the tuning range.
> When off it turn back to zero, as it should be.
> Any idea? I suspect that I will have to replace one or more bulbs..
> Thank you and best 73s!
> Giampaolo
>
>

5037. Re: R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 16:00:12 UTC
From: Galassi
Topic: 4985 Message: 5037

Good morning mr.Allen
sorry for the basic english.
Just wanted to say that in my rx S-meter starts with signal 4-5 units. Overall signals do not appear to be "the signal+5" btw.
And 5 it's not my noise background, 4-5 is what I have with the AVC off. Thank you.
Giampaolo

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Giampaolo -
>
> I'm not sure I follow your question, but most S-Meter 'drift' problems
> are caused by V4, V5 and V1.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Galassi wrote:
> > Hi all,
> > when the receiver (a Drake R-4B) is on, etx mute,NB or Cal, the S-meter
> > dial start from S4 reading.
> > Same if I switch off the agc, and with the right side S-meter
> > calibration at zero and the preselector away from the tuning range.
> > When off it turn back to zero, as it should be.
> > Any idea? I suspect that I will have to replace one or more bulbs..
> > Thank you and best 73s!
> > Giampaolo
> >
> >
>

5038. Re: [DrakeRadio] Re: R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 16:58:06 UTC
From: Garey Barrell
Topic: 4985 Message: 5038

Giampaolo -

If the S-Meter is set to ZERO with the side mounted ZERO control, it should stay there if the receiver is turned off for a while and then turned back on. If a strong signal is heard, moving the needle up scale, when the signal is removed the meter should return to ZERO.

Do you perhaps mean that if the meter is set to ZERO, and then signals move it upscale, that it does not fall back to ZERO when the signal is removed? Does it fall to exactly the same spot on the scale? Possibly a mechanical fault in the meter causing it to stick at a point.

The meter should be ZERO with the AVC off. The meter should be zero'ed with the side control, AVC on FAST. Switching from OFF to FAST to SLOW should not cause the meter to move from zero. Turning the side ZERO control full ON should cause the meter to read up to S6 or higher.

Turning the RF GAIN control full OFF (CCW) should cause the meter to go to full scale.

73, Garey - K4OAH

Galassi wrote:
> Good morning mr.Allen
> sorry for the basic english.
> Just wanted to say that in my rx S-meter starts with signal 4-5 units. Overall signals do not appear to be "the signal+5" btw.
> And 5 it's not my noise background, 4-5 is what I have with the AVC off. Thank you.
> Giampaolo
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>
>> Giampaolo -
>>
>> I'm not sure I follow your question, but most S-Meter 'drift' problems
>> are caused by V4, V5 and V1.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>

>> Galassi wrote:
>>
>>> Hi all,
>>> when the receiver (a Drake R-4B) is on, etx mute,NB or Cal, the S-meter
>>> dial start from S4 reading.
>>> Same if I switch off the agc, and with the right side S-meter
>>> calibration at zero and the preselector away from the tuning range.
>>> When off it turn back to zero, as it should be.
>>> Any idea? I suspect that I will have to replace one or more bulbs..
>>> Thank you and best 73s!
>>> Giampaolo
>>>
>>>

5039. Re: R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 17:23:27 UTC
From: Galassi
Topic: 4985 Message: 5039

Thank you K4OAH Gary,
> Do you perhaps mean that if the meter is set to ZERO, and then signals
> move it upscale, that it does not fall back to ZERO when the signal is
> removed?

Yes

> Turning the RF GAIN control full OFF (CCW) should cause the meter to go
> to full scale.

Yes, full scale. BUT back to zero ONLY when the rx is switched off.

I get S 9+5 when using the Calibrator.

Best 73s
G.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Giampaolo -
>
>
> If the S-Meter is set to ZERO with the side mounted ZERO control, it
> should stay there if the receiver is turned off for a while and then
> turned back on. If a strong signal is heard, moving the needle up
> scale, when the signal is removed the meter should return to ZERO.
>
> Do you perhaps mean that if the meter is set to ZERO, and then signals
> move it upscale, that it does not fall back to ZERO when the signal is
> removed? Does it fall to exactly the same spot on the scale? Possibly
> a mechanical fault in the meter causing it to stick at a point.
>
> The meter should be ZERO with the AVC off. The meter should be zero'ed
> with the side control, AVC on FAST. Switching from OFF to FAST to SLOW
> should not cause the meter to move from zero. Turning the side ZERO
> control full ON should cause the meter to read up to S6 or higher.
>
> Turning the RF GAIN control full OFF (CCW) should cause the meter to go
> to full scale.
>
> 73, Garey - K4OAH
>
> Galassi wrote:
> > Good morning mr.Allen
> > sorry for the basic english.
> > Just wanted to say that in my rx S-meter starts with signal 4-5 units. Overall signals

do not appear to be "the signal+5" btw.
> > And 5 it's not my noise background, 4-5 is what I have with the AVC off. Thank you.
> > Giampaolo
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >
> >> Giampaolo -
> >>
> >> I'm not sure I follow your question, but most S-Meter 'drift' problems
> >> are caused by V4, V5 and V1.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> Galassi wrote:
> >>
> >>> Hi all,
> >>> when the receiver (a Drake R-4B) is on, etx mute,NB or Cal, the S-meter
> >>> dial start from S4 reading.
> >>> Same if I switch off the agc, and with the right side S-meter
> >>> calibration at zero and the preselector away from the tuning range.
> >>> When off it turn back to zero, as it should be.
> >>> Any idea? I suspect that I will have to replace one or more bulbs..
> >>> Thank you and best 73s!
> >>> Giampaolo
> >>>
> >>>
>

5040. Mystery TR7 tantalums

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 17:46:10 UTC
From: Craig Roberts
Topic: 5040 Message: 5040

The TR7 has two tantalums close together near the rear of the Parent Board. I don't have the rig nearby, so I can't tell you upon what traces they are soldered and I can't find any mention of them in the service manual. What is their value and what in the heck do they do? There are scorch marks on the underside of the radio's bottom plate at their location so at least one of the caps blew and was replaced at some time.

I am still trying to figure out why my Transmit Exciter board keeps losing T/R switching transistors. It's getting mighty frustrating.

Thanks, gurus.

73,
Craig
W3CRR

5041. T4XC Final cage Cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 19:49:17 UTC
From: Richard Hanna
Topic: 5041 Message: 5041

I bought a T4XC some time ago, works really well, but it is missing the Final Cage Cover. Anyone have one they would part with? Please contact me direct.

Dick Hanna
K3VYY
k3vyy@...

[Non-text portions of this message have been removed]

5042. Re: [DrakeRadio] Mystery TR7 tantalums

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 21:24:44 UTC
From: Garey Barrell
Topic: 5040 Message: 5042

Craig -

Those are 10 uF, 35 V tantalum caps, one on the +10 V (Pin 13) bus and one on the +5 V (Pin 12) bus to Ground on Pin 11 on Board 11, the 2nd IF/AF board. I don't think either one is on the schematic, probably 'field changes' to reduce BFO leakage and ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
> The TR7 has two tantalums close together near the rear of the Parent
> Board. I don't have the rig nearby, so I can't tell you upon what
> traces they are soldered and I can't find any mention of them in the
> service manual. What is their value and what in the heck do they do?
> There are scorch marks on the underside of the radio's bottom plate at
> their location so at least one of the caps blew and was replaced at some
> time.
>
> I am still trying to figure out why my Transmit Exciter board keeps
> losing T/R switching transistors. It's getting mighty frustrating.
>
> Thanks, gurus.
>
> 73,
> Craig
> W3CRR
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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5043. Re: [DrakeRadio] Mystery TR7 tantalums

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-01 21:59:54 UTC
From: crgrbrts@verizon.net
Topic: 5040 Message: 5043

Aha! Thanks, Garey. I'll have to look at the radio when I get home, but I think the one on the 10V line is the replacement from a failure before my time.

Hmmm.

Sent via BlackBerry by AT&T

-----Original Message-----
From: Garey Barrell <k4oah@...>
Sender: DrakeRadio@yahoogroups.com
Date: Tue, 01 Mar 2011 16:24:44
To: <DrakeRadio@yahoogroups.com>
Reply-to: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Mystery TR7 tantalums

Craig -

Those are 10 uF, 35 V tantalum caps, one on the +10 V (Pin 13) bus and one on the +5 V (Pin 12) bus to Ground on Pin 11 on Board 11, the 2nd IF/AF board. I don't think either one is on the schematic, probably 'field changes' to reduce BFO leakage and ...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
> The TR7 has two tantalums close together near the rear of the Parent
> Board. I don't have the rig nearby, so I can't tell you upon what
> traces they are soldered and I can't find any mention of them in the
> service manual. What is their value and what in the heck do they do?
> There are scorch marks on the underside of the radio's bottom plate at
> their location so at least one of the caps blew and was replaced at some
> time.
>
> I am still trying to figure out why my Transmit Exciter board keeps
> losing T/R switching transistors. It's getting mighty frustrating.
>
> Thanks, gurus.
>
> 73,
> Craig
> W3CRR
>

>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

5044. Re: [DrakeRadio] Re: R-4B S-meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 00:20:16 UTC
From: Lee Hiers
Topic: 4985 Message: 5044

On Tue, Mar 1, 2011 at 12:23 PM, Galassi <w.matilda@...> wrote:

> Do you perhaps mean that if the meter is set to ZERO, and then signals
> > move it upscale, that it does not fall back to ZERO when the signal is
> > removed?
>
> Yes
>

My R-4 started doing this last night. I only have about 20' of wire strung around the "shack" for an antenna, and was just listening to 40 CW in the background when it sounded like a pretty strong signal was tuning up zero beat. After a few minutes I walked over to tune off that frequency, noting that the signal was about an S6 or so (which is a decent signal with this antenna), and when I turned the PTO knob, the "signal" didn't go away. I just turned the RX off, guessing it was probably something to do with the AGC circuit...I won't have any time to dig through the radio for a while unfortunately.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

5045. R-4A prescaler mechanics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 00:35:49 UTC
From: William Houghton
Topic: 5045 Message: 5045

Garey & the group,

I never quite finished the work on my R-4A and thought I might get back to it very soon. My troubles are in the area of the mechanical aspects of the prescaler. When you turn the prescaler knob the slugs of a series of transformers are raised or lowered. In my case, the movement of the slugs stop, and the prescaler knob "slips" before the pulley hits the mechanical stop. Maybe about 1/4 inch before reaching the stop. This happens on both ends of the prescaler travel. If I apply light finger pressure to the metal bar that mechanically connects all of the slugs together and turn the prescaler knob, I can get the slugs to continue their path until the mechanical stop is reached.

Q1: The slugs should move with rotation of the prescaler knob until the stop is reached, correct?
Q2: Any idea what causes the problem I am experiencing?

Thanks - Bill WA6NEQ

[Non-text portions of this message have been removed]

5046. T4 Reciter /R4 Combo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 03:54:46 UTC
From: Fernando
Topic: 5046 Message: 5046

Hello

Awhile back someone was asking about this pair.

I have decided to liquidate mine set

and can't find your email.

Email me direct if still interested.

tnx Fernando N2FQ

5047. Re: [DrakeRadio] R-4A prescaler mechanics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 04:54:56 UTC
From: Garey Barrell
Topic: 5045 Message: 5047

Bill -

See attached........

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Garey& the group,
>
> I never quite finished the work on my R-4A and thought I might get back to it
> very soon. My troubles are in the area of the mechanical aspects of the
> prescaler. When you turn the prescaler knob the slugs of a series of
> transformers are raised or lowered. In my case, the movement of the slugs stop,
> and the prescaler knob "slips" before the pulley hits the mechanical stop. Maybe
> about 1/4 inch before reaching the stop. This happens on both ends of the
> prescaler travel. If I apply light finger pressure to the metal bar that
> mechanically connects all of the slugs together and turn the prescaler knob, I
> can get the slugs to continue their path until the mechanical stop is reached.
>
> Q1: The slugs should move with rotation of the prescaler knob until the stop is
> reached, correct?
> Q2: Any idea what causes the problem I am experiencing?
>
> Thanks - Bill WA6NEQ
>
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5048. Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 03:50:34 UTC
From: Russ
Topic: 5048 Message: 5048

Hi folks, I'm trying to decide whether to go with the Drake r4b or one of the 75S Line of Collins receivers. I find it difficult to justify the expense of competing with the Collins collectors and would really appreciate some advice from experienced Drake users on the R4B. Also should I be looking at the R4B or another fine Drake receiver. Looks like it's hard to beat the Drake when it comes to sensitivity from the specs but I wonder what you guys and gals think is the best features of the Drakes..... Thanks Russ K5ZZR (licensed since 1964)

5049. Re: [DrakeRadio] Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 16:41:46 UTC
From: Richard Knoppow
Topic: 5048 Message: 5049

----- Original Message -----
From: "Russ" <champsruss@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, March 01, 2011 7:50 PM
Subject: [DrakeRadio] Drake r4b VS Collins 75S Line
Receivers

> Hi folks, I'm trying to decide whether to go with the
> Drake r4b or one of the 75S Line of Collins receivers. I
> find it difficult to justify the expense of competing with
> the Collins collectors and would really appreciate some
> advice from experienced Drake users on the R4B. Also
> should I be looking at the R4B or another fine Drake
> receiver. Looks like it's hard to beat the Drake when it
> comes to sensitivity from the specs but I wonder what you
> guys and gals think is the best features of the
> Drakes..... Thanks Russ K5ZZR (licensed since 1964)
>
>
All I can say is that its an excellent receiver. Does
not have quite the selectivity of the mechanical filter but
its selective enough. It also has an excellent noise
blanker. This is important because when a receiver has a
fast-attack/slow release AVC it can be desensitized by short
noise pulses. An ordinarly noise clipper has no effect on
this beause it comes after the AVC detector. The blanker in
the Drake eliminates the problem without having any effect
on the desired signal. Plus its a quite good CW receiver and
has good audio.
Drakes are not built to the near military standard of
Collins but that does not affect performance and they were
built well enough so that they still survive and are
supportable. Drake used good quality parts.
If you ask about the T4XB transmitter, its specs are
better than Collins and it meets them.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5050. Re: [DrakeRadio] Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 17:29:13 UTC
From: Garey Barrell
Topic: 5048 Message: 5050

Russ -

The R-4 through R-4B are pretty much the same receiver. Each succeeding model replaced a few more vacuum tubes with transistors. Actually there's not a whole lot of difference between the 2-B and the R-4 either! The 2-B used a pretty conventional L-C oscillator / tuned IF at 3.5 - 4.1 MHz with a crystal controlled HFO in front of it to a 455 kHz IF and then down to a 50 kHz IF with an L-C passband tuner. The 4 series all use a PTO mixed with a crystal oscillator to develop a "premixed&" injection signal for the first mixer to an IF of about 5.6 MHz. That is then converted down to a 50 kHz IF with the same L-C passband tuner From that point on, however, they are all pretty much the same functionally. The Passband Tuner has approximately a 2.8:1 shape factor on SSB and almost 6:1 on the 400 Hz CW filter. Dial calibration is a single disc with 25 kHz marks and one kHz marks on the knob skirt. The PTO is linear and resettability is more than adequate. The R-4 and 13 tube R-4A had a tube type product detector. The 11 tube R-4A and forward changed to a two diode product detector.

The biggest difference came with the R-4C. Here you have the same basic receiver, but with 5.6 MHz IF crystal filters with a 1.8:1 shape factor on SSB and 500 Hz CW. The audio output stage IS solid state, but it is also Class A, so none of the crossover distortion of the more typical Class B audio amps. Drake DID make it a little TOO hi-fi, so there is a hiss level, especially with phones. A simple two capacitor mod resolves that. The R-4C_used_ to be found on the market with all filters and the noise blanker "accessories" included. The E-Bay mentality, with separate "auctions" for the receiver, the noise blanker, each filter, the manual, the line cord... (well, not the line cord, it's attached!,) has put an end to that. It's only a matter of time before the tubes are yanked for the same treatment. The 2.4 kHz filter is "attached", and so you could add a 500 or 250 Hz Drake filter or others from InRad for CW use.

The dial calibration is a geared two disc system with one kHz marks on the second dial disc, and no markings on the knob skirt. Same PTO and resettability is about the same as with the knob skirt. There are a bunch of mods for the R-4C, primarily from Sherwood Engineering, most aimed at improving the IM performance of the front end with narrower (600 Hz) roofing filters in place of the stock 8 kHz, but at the cost of metalwork and relay switching, and an IC based product detector or, power supply mod, and audio output mod. Unless you are planning a multi-multi station with the inherent IM problems, not worth the effort or money in my opinion.

By the way, the R-4 will transceive with any T-4 and vice versa.

So.... For general band crawling in today's (generally) less crowded bands, the A or B series is fine. I personally prefer the wider slope on the L-C tuner over the sharp crystal filters. I get claustrophobic with narrow filters. I prefer to hear what's going on around me, at a reduced level, and let my ears do the filtering. This is no doubt a product of my first BC-454 surplus receiver which with it's 1415 kHz IF strip LET me listen to the entire 50 kHz of the 80 M Novice band without moving the tuning knob! For contesting or other high density operations, it's nice to be able to switch in a 500 or even 250 Hz filter. You can

even hear the DX station amongst the "policemen".

As for a comparison with Collins, mechanically the Collins is beautiful. Machined metal parts, turret tube sockets, teflon wire, etc. BUT the Collins sold for approximately 50% more than the Drake. At least up until Collins went berserk under Rockwell and discontinued subsidizing ham gear with their military sales. From a functional standpoint, neither I nor the other station can tell if I'm using the Collins or Drake. There is a story that an early R-4 was purchased by Collins. Inside the PTO housing was a note saying something to the effect of ... Pretty slick, huh Art?? (Signed) Bob Drake.

I have owned / own at least one example of each of the above, starting with the 2-B in 1961. Currently my B and C Lines are each on their own desks, and the S-Line is on the shelves with the backup B and C Lines. I keep saying I want to set up the Collins again, but the 200 kHz wide bands and limited additional band coverage (I can't spend an additional $500+ for the privilege of having the ($30) extra crystal deck,) keeps putting me off.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Russ wrote:
> Hi folks, I'm trying to decide whether to go with the Drake r4b or one of the 75S Line of Collins receivers. I find it difficult to justify the expense of competing with the Collins collectors and would really appreciate some advice from experienced Drake users on the R4B. Also should I be looking at the R4B or another fine Drake receiver. Looks like it's hard to beat the Drake when it comes to sensitivity from the specs but I wonder what you guys and gals think is the best features of the Drakes..... Thanks Russ K5ZZR (licensed since 1964)
>
>
>
>

5051. Re: T4XC Final cage Cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-02 23:42:12 UTC
From: captcurt2000
Topic: 5041 Message: 5051

I just today saw one for sale on the bay. Search under Drake transmitter or similar. I'll look also.

Curt

--- In DrakeRadio@yahoogroups.com, Richard Hanna <k3vyy@...> wrote:
>
> I bought a T4XC some time ago, works really well, but it is missing the Final Cage Cover. Anyone have one they would part with? Please contact me direct.
>
> Dick Hanna
> K3VYY
> k3vyy@...
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

5052. Re: T4XC Final cage Cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-03 00:05:41 UTC
From: captcurt2000
Topic: 5041 Message: 5052

http://cgi.ebay.com/DRAKE-FINAL-CAGE-LID-COVER-T-4XC-TR-4-TR-4C-TR-4CW-/180631416334?pt=LH_DefaultDomain_0&hash=item2a0e78ae0e

--- In DrakeRadio@yahoogroups.com, Richard Hanna <k3vyy@...> wrote:
>
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>
> Dick Hanna
> K3VYY
> k3vyy@...
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

5053. Re: [DrakeRadio] Re: T4XC Final cage Cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-03 00:52:45 UTC
From: Richard Hanna
Topic: 5041 Message: 5053

Thanks Curt..I found it.

Dick

Sent from Yahoo! Mail on Android

[Non-text portions of this message have been removed]

5054. Re: Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-03 18:58:31 UTC
From: querencias
Topic: 5048 Message: 5054

Richard,

For some reason that I can't articulate, my favorite receiver of all time is the R-4B. The gear in my shack consists of the TR-7 Transceiver with remote VFO, external speaker and PS-7 power supply, R-4B + T-4XB _ power supply/speaker, 2B receiver, SPR-4 receiver, FS-4 synthesizer, Yaesu FT-857D (plus a ridiculous number of boat anchors stored in my shed awaiting their turn on the work bench). I used to have a Collins 75A-4 and operated the S line at a radio club.

The best receiver to operate, in my experience, is the R-4B even though it's a pain to go from end to end of the bands, requiring many twists of the wrist. Using an auxiliary crystal I've operating on the 30 meter band, and that's really a pain to tune to the far end of the band, but worth the effort. The R-4B L/C filter, as Gary/K4OAH wrote, has softer, wider skirts than the crystal filters but gives really great results used with the passband tuning.

I wish I could explain, even to myself, why I like operating the R-4B over all the other gear that I have and have used; it's a mystery, like "love," but so far I cannot.

The Drake B Line is fairly easy to work on and repair, especially with the help of the K4OAH CDs, well worth the investment. The Collins gear is also very repair friendly, having been laid-out and designed by a mechanical engineer, Art collins. With the exception of its inherent "noise," the 75A-4 is also an awesome receiver; S line is less noisy.

Either choice is good, both are "top drawer" machines - the best solution might be to sacrifice and get both!

73 Grant

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Russ" <champsruss@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, March 01, 2011 7:50 PM
> Subject: [DrakeRadio] Drake r4b VS Collins 75S Line
> Receivers
>
>
> > Hi folks, I'm trying to decide whether to go with the
> > Drake r4b or one of the 75S Line of Collins receivers. I
> > find it difficult to justify the expense of competing with
> > the Collins collectors and would really appreciate some
> > advice from experienced Drake users on the R4B. Also
> > should I be looking at the R4B or another fine Drake
> > receiver. Looks like it's hard to beat the Drake when it

> > comes to sensitivity from the specs but I wonder what you
> > guys and gals think is the best features of the
> > Drakes..... Thanks Russ K5ZZR (licensed since 1964)
> >
> >
> All I can say is that its an excellent receiver. Does
> not have quite the selectivity of the mechanical filter but
> its selective enough. It also has an excellent noise
> blanker. This is important because when a receiver has a
> fast-attack/slow release AVC it can be desensitized by short
> noise pulses. An ordinarly noise clipper has no effect on
> this beause it comes after the AVC detector. The blanker in
> the Drake eliminates the problem without having any effect
> on the desired signal. Plus its a quite good CW receiver and
> has good audio.
> Drakes are not built to the near military standard of
> Collins but that does not affect performance and they were
> built well enough so that they still survive and are
> supportable. Drake used good quality parts.
> If you ask about the T4XB transmitter, its specs are
> better than Collins and it meets them.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

5055. Re: [DrakeRadio] Re: Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-03 19:34:56 UTC
From: Richard Knoppow
Topic: 5048 Message: 5055

----- Original Message -----
From: "querencias" <tuquerencia@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 03, 2011 10:58 AM
Subject: [DrakeRadio] Re: Drake r4b VS Collins 75S Line Receivers

I got the B Drake twins when I got my license back after many years. I am not sure why I had the impression they were the best choice of the affordable equipment but some memory of the old days told me that. I was right, I think. My receiver had few problems but I had to struggle with the transmitter until I got Gary's disc. I discovered from the picturs that the balanced modulator was wired wrong. Probably from someone who had worked on it before because it was also modified with a standard RTS jack for the microphone (which I've left). Its not hard to work on although rather crowded. I also installed the Heathkit Shop mod to the AC-4 power supply.
I think Drake made some compromises to the design of both to get the price down but the performance was not compromised. In fact, the specs are better than the Collins S line except for the mechanical filters in the receivers and from what I read on the Collins reflector I think Drake may be more trouble free.
When Drake came out it blew Collins out of the water because the stuff worked as well or better and was perhaps half the price.
I also have a Kenwood TS-520S rice box. This is a nice tranceiver but is strictly an SSB rig. Although it will do CW its pretty much for emergencies. The Drake twins are actually very good for CW.
I also have a modified R-388. Its a very good receiver but in practice is not as selective as the R4B and does not have the noise blanker.
I have lusted after a 75A4 since they came out. Perhaps I will eventually find one but from all reports the R4B is a better receiver.
What I need now is a good antenna. This is mostly a matter of talking my landlord into letting me do it. Perhaps an appeal to homeland security would do it.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

5056. Re: Drake r4b VS Collins 75S Line Receivers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 02:33:29 UTC
From: Russ
Topic: 5048 Message: 5056

Thank everyone so far for their great insights and experience stories. I'll be going to the Green Country Hamfest on the 11th and 12th of March and feel that I'll come across the one receiver that will jump out and say take me home.... Kind of like going to the animal shelter for a rescue.. Hi K5ZZR

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "querencias" <tuquerencia@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, March 03, 2011 10:58 AM
> Subject: [DrakeRadio] Re: Drake r4b VS Collins 75S Line
> Receivers
>
> I got the B Drake twins when I got my license back
> after many years. I am not sure why I had the impression
> they were the best choice of the affordable equipment but
> some memory of the old days told me that. I was right, I
> think. My receiver had few problems but I had to struggle
> with the transmitter until I got Gary's disc. I discovered
> from the picturs that the balanced modulator was wired
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> because it was also modified with a standard RTS jack for
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> but in practice is not as selective as the R4B and does not
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> better receiver.
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> matter of talking my landlord into letting me do it. Perhaps
> an appeal to homeland security would do it.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

5057. Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 05:43:44 UTC
From: querencias
Topic: 5048 Message: 5057

I almost take back what I said about the R-4B being repair-friendly : received the recap set from Hayseed Hamfest today - the new electrolytic can is beautiful, it sparkles.

Taking out the old, original wasn't a piece of cake - getting the connections off was easy but then I realized that two of the tabs were soldered to the chassis in places without acces - after 45 minutes of head-scratching/hair pulling realized it will take BRUTE FORCE.

Disconnected and moved slightly the phone jack and the boad adjacent then sawed for about 10 minutes with a short blade, all on the top side of the chassis - got to the point where the "stuffings" were easy to pull out - then with a massive pair of vice grips ripped the old can off the chassis - came clean as a whistle, no scratch marks! amazing. Then a rat-tail file cleaned up the rough solder edges on the under side - the new can went in smooth as silk.

Have to get and connect a 1KR resistor between the two tabs then we're done - not easy getting BIG solder blobs off the chassis in deep, crowded spaces/volumes using a small tip iron.

73 de Grant

5058. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 15:44:27 UTC
From: Dennis Weal
Topic: 5048 Message: 5058

#1 rule if you gonna work on toob stuff. Acquire the biggest baddest Weller or Wen solder gun you can afford and go for it. Steel and copper plated chassis love to be soldered to. It's natural.

Denny

----- Original Message -----
From: querencias
Sent: 03/04/11 12:43 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

I almost take back what I said about the R-4B being repair-friendly : received the recap set from Hayseed Hamfest today - the new electrolytic can is beautiful, it sparkles.

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73 de Grant

[Non-text portions of this message have been removed]

5059. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 16:11:53 UTC
From: Paul Christensen
Topic: 5048 Message: 5059

> "Taking out the old, original wasn't a piece of cake - getting the connections off was easy but then I realized that two of the tabs were soldered to the chassis in places without acces - after 45 minutes of head-scratching/hair pulling realized it will take BRUTE FORCE."

You and I were replacing new Hayseed PS caps at the same moment in time. In my R-4B, two of the four tabs were unsoldered. I first bent the unsoldered tabs back to the center. I have a Weller 140W/100W gun and it's still a lightweight for chassis work. There just no way that gun will melt solder on the chassis except for a very small portion near the very top. And even then, the chassis heat sinks too rapidly.

I ended up cutting the soldered tabs but that required some sweat too. After about 15 minutes, I had the old cap out and the new one installed. I am now 90% finished with my Sherwood PS and audio amp mods. On the R-4B, this has turned into a complex job and not nearly as seamless as it was with the R-4C. For one thing, I am trying to eliminate as many heat-producing voltage dividers as I can. Three locations in the R-4B require +12V. That drop will now accomplished with a 7812 on the new Sherwood PS board. But, decoupling the +12V rail is critically important to achieve adequate isolation from one circuit to another.

One other thing I realized last night: One side of the 12V filament secondary supply is grounded. It looks like it was to establish the DC return for the half-wave rectifier (D16, C192) going to Q8. Since the Sherwood board uses a full-wave, CT rectifier for the 7812, I am thinking about moving the ground point from the end of the secondary to the filament secondary CT connection. That should still keep the 6V and 12V tube filaments happy while correctly supplying AC to a full-wave CT rectifier on the Sherwood board.

Just got K4OAH's CD. Wow, the diagrams are crystal clear with much extra useful information. $$$ well spent.

Paul, W9AC

[Non-text portions of this message have been removed]

5060. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 16:59:00 UTC
From: Craig Roberts
Topic: 5048 Message: 5060

For boatanchor chassis soldering work, forget about puny soldering guns. For one thing, their tips are too small. Get a heavy duty iron from American Beauty, such as this:
:
http://www.americanbeautytools.com/site/models/si/16

Sure, they cost a bloody fortune, but if you restoration work, they're well worth the investment. Big irons often appear on eBay and can be a relative bargain if bought there.

73,

Craig
W3CRR

5061. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 17:12:08 UTC
From: LEE BAHR
Topic: 5048 Message: 5061

I use a Dremmel tool with cutting disc to cut the old capacitor ears off the chassis. I have never had a metal filing problem as I take caution of this possibility. (Not much metal to cut).

Lee, w0vt

> "Taking out the old, original wasn't a piece of cake - getting the connections off was easy but then I realized that two of the tabs were soldered to the chassis in places without acces - after 45 minutes of head-scratching/hair pulling realized it will take BRUTE FORCE."

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Paul, W9AC

[

[Non-text portions of this message have been removed]

5062. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 19:25:19 UTC
From: Garey Barrell
Topic: 5048 Message: 5062

The BIG iron works better than a gun because of the tip mass. Even a big gun has very little tip mass and cools down as soon as it touches the chassis.

It's possible to get them out with a gun, solder sucker, solder wick, and patience. It helps to grasp the can and wiggle it while hot to crystallize the solder (cold solder joint).

It's a good idea to just clip the leads off the terminals. As we all know, the wire Drake used has insulation that will crawl back in a hurry with heat. Be sure and use a bigger iron for soldering the wires to the new terminals as well. The best way is a good, HOT iron so you can heat the joint in a hurry, melt solder, and get off quickly! A smaller iron is definitely a handicap.

Also, I wrap aluminum foil over wiring in the area as even radiated heat from a big iron can melt wire insulation, not to mention actually touching something!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Craig Roberts wrote:
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> from American Beauty, such as this:
> :
> http://www.americanbeautytools.com/site/models/si/16
>
> Sure, they cost a bloody fortune, but if you restoration work, they're
> well worth the investment. Big irons often appear on eBay and can be a
> relative bargain if bought there.
>
> 73,
>
> Craig
> W3CRR
>
>

5063. Re: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 20:35:41 UTC
From: Paul Christensen
Topic: 5048 Message: 5063

Drake R-4C power transformer wanted in working condition. If you have one from a parts set, please send private reply. Tnx!

Paul, W9AC

[Non-text portions of this message have been removed]

5064. wideband noise?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 21:46:52 UTC
From: Galassi
Topic: 5064 Message: 5064

Good evening, I was listening to a difficult dx station on 5020 kHz, the 60 meters tropical band (Niger) and that's what I get when the preselector is untuned using SSB (ECSS mode).
On AM there isn't any audible noise , but because it is white
The noise is not modified by the PTO, wideband over the full HF spectrum and same with unplugged aerial.
I suspect that maybe one answer to my R-4B S-meter S4 minimum reading? I really don't know.
You can download the mp3 file here, better to listen with the phones (noise at 25" and 40").

http://www.sendspace.com/file/1089bn

Thank you!
Giampaolo

5065. Re: [DrakeRadio] wideband noise?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-04 22:55:13 UTC
From: Garey Barrell
Topic: 5064 Message: 5065

Giampaolo -

I'm not certain, but I suspect you are hearing one of the many multiple harmonic/beats of the oscillators in the receiver. This is a 'no-fly' zone in the Drake 4 Series receivers because of the circuit topology. The BFO is running at 5.595 MHz, the PTO is running somewhere between 5.455 and 4.955 MHz, and the BFO is at 50 kHz. All of these signals 'mix and match' in the 5 MHz region. For example, say the PTO is at 5.070 mixing with the BFO at 50 kHz results in a signal at 5.020 MHz. Perhaps not a good example, but you get the idea. The ones that don't 'move' with the PTO can be something like 5.595 mixed with 50 kHz can produce a response at 5.545 MHz. Of course none of these signals are modulated, so present as 'white noise' in the receiver.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

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> and same with unplugged aerial.
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> really don't know.
> You can download the mp3 file here, better to listen with the phones
> (noise at 25" and 40").
>
> http://www.sendspace.com/file/1089bn
>
> Thank you!
> Giampaolo
>
>

5066. REDUCED: Drake TR3 Transceiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-05 14:15:35 UTC
From: Bry Carling
Topic: 5066 Message: 5066

FOR SALE: Drake TR3 Transceiver

The R. L. Drake model TR-3 is an SSB-CW-AM transceiver designed for the transmission and reception of upper and lower sideband signals on the 80 through 10 meter amateur bands. AM and CW capabilities are included.

Ideal for both fixed station use in conjunction with the model AC-3 or AC4 120 volt AC Power Supply, or for mobile installations using the DC-3 or DC4 12 volt DC Power Supply.

The 300 watt PEP input on SSB enables the TR-3 to give an excellent account of itself barefoot and it will drive the highest powered ham linear amplifiers.

Upper and lower sideband selection is accomplished by switching between two Drake designed and manufactured 9 MC crystal lattice filters with 2.1 kc pass-bands. Among the other features included on the TR-3 are VOX and PTT, shifted carrier CW, separate RF and AF gain controls, linear permeability tuned VFO with vernier scale, transmitting and receiving AGC, and separate receiver S-meter and transmitter plate ammeter. The addition of the accessory RV- 3 remote VFO speaker combination enables the operator to receive, transmit or transceive throughout the band being used without disturbing the setting of the TR-3 tuning dial. This is useful for working DX stations operating outside the United States Phone Bands, or for working near your own frequency in search of a clear spot under crowded band conditions.

FREQUENCY COVERAGE: Full coverage on all amateur bands 10 thru 80 meters, in seven 600 k c ranges ; 3.5-4.1 mc, 7.0 to 7.6 mc, 13.9 to 14.5 mc, 21 to 21.6 mc, 28 to 28.6 mc, 28.5 to 29.1 mc, 29.1 to 29.7 mc.
bullet LINEAR PERMEABILITY TUNED VFO: Tunes 4.9 to 5.5 mc for all ranges, 9 mc I.F. minus VFO range overs 80 meters, 9 mc I. F. plus VFO range covers 20 meters. VFO and crystal oscillator heterodyned in premixer for 40, 15, and three 10 meter ranges.
bullet
DIAL CALIBRATION: 10 kc divisions on main tuning dial and interpolation to 1 kc on tuning knob skirt . Effective length of circular dial scale is over 14 inches.
bullet
FREQUENCY STABILITY: High stability permeability tuned VFO tunes same range on all bands . Drift is less than 100 cycles after warm-up, and less than 100 cycles for plus or minus 10% line voltage change.
bullet
FRONT PANEL CONTROLS:
bullet Main Tuning has fluted knob with adjustable 25 division skirt. Tunes VFO and rotates main dial.

bullet RF Tune tunes the RF circuit common to receiver RF amplifier and transmitter driver stages. 0-10 scale.
bullet Plate and Load tuning adjust pi-network capacitors in transmitter for proper resonance and loading on each band.
bullet Band switch selects desired ham band (see frequency coverage).
bullet Function switch has four positions CAL, SSB, X-CW, X-AM. CAL operates built-in 100 kc crystal calibrator for accurate setting of main tuning hair line indicator and knob skirt SSB provides SSB operation, either VOX or PTT, and is receive position for SSB, CW, and AM. X-CW (transmit CW) inserts carrier , converts `Xmtr Gain´ control to carrier injection for tuning and CW transmitting. X-AM (transmit AM) inserts carrier and screen modulator for AM transmitting.
bullet XMTR GAIN functions as mike audio gain on SSB and AM, and as carrier injection control on X-CW for tune and CW.
bullet RCVR GAIN knob controls receiver AF gain and power ON-OFF switch. Lever behind knob controls setting of RF gain.
bullet Sideband switch in conjunction with indicator lights marked Upper and lower selects desired sideband by connecting into the circuit either the upper or lower sideband filter.

There is no power supply with this radio.

Pictures and details here:
http://www.af4k.com/radios.htm

Available for $115.00 plus shipping

[Non-text portions of this message have been removed]

5067. Re: Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-05 19:07:01 UTC
From: radiomanradioman
Topic: 5048 Message: 5067

forget the guns , find a weller SP-120 or SP-175 or if you can find one the American Beauty 250 watt iron . they will outperform the largest gun type you can find .
http://www.americanbeautytools.com/site/
http://www.cooperhandtools.com/brands/weller/
andrew
kd5pnt

--- In DrakeRadio@...m, "Dennis Weal" <w4eal@...> wrote:
>
> #1 rule if you gonna work on toob stuff. Acquire the biggest baddest Weller or Wen solder gun you can afford and go for it. Steel and copper plated chassis love to be soldered to. It's natural.
>
> Denny
>
> ----- Original Message -----
> From: querencias
> Sent: 03/04/11 12:43 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way
>
> I almost take back what I said about the R-4B being repair-friendly : received the recap set from Hayseed Hamfest today - the new electrolytic can is beautiful, it sparkles.
>
> Taking out the old, original wasn't a piece of cake - getting the connections off was easy but then I realized that two of the tabs were soldered to the chassis in places without acces - after 45 minutes of head-scratching/hair pulling realized it will take BRUTE FORCE.
>
> Disconnected and moved slightly the phone jack and the boad adjacent then sawed for about 10 minutes with a short blade, all on the top side of the chassis - got to the point where the "stuffings" were easy to pull out - then with a massive pair of vice grips ripped the old can off the chassis - came clean as a whistle, no scratch marks! amazing. Then a rat-tail file cleaned up the rough solder edges on the under side - the new can went in smooth as silk.
>
> Have to get and connect a 1KR resistor between the two tabs then we're done - not easy getting BIG solder blobs off the chassis in deep, crowded spaces/volumes using a small tip iron.
>
> 73 de Grant
>
>

>
>
> [Non-text portions of this message have been removed]
>

5068. Re: [DrakeRadio] Re: Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-05 20:47:47 UTC
From: William Houghton
Topic: 5048 Message: 5068

I was lucky and found a working American Beauty at a garage sale for $2. They also work really well for soldering the braid on PL-259s.

_____
From: radiomanradioman <radiomanl@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, March 5, 2011 11:07:01 AM
Subject: [DrakeRadio] Re: Replacing the Power Supply Electrolyic Filter Capacitors, The Brute Force Way

forget the guns , find a weller SP-120 or SP-175 or if you can find one the American Beauty 250 watt iron . they will outperform the largest gun type you can find .

http://www.americanbeautytools.com/site/
http://www.cooperhandtools.com/brands/weller/
andrew
kd5pnt

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> #1 rule if you gonna work on toob stuff. Acquire the biggest baddest Weller or
>Wen solder gun you can afford and go for it. Steel and copper plated chassis
>love to be soldered to. It's natural.
>
> Denny
>
> ----- Original Message -----
> From: querencias
> Sent: 03/04/11 12:43 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Replacing the Power Supply Electrolyic Filter Capacitors,
>The Brute Force Way
>
> I almost take back what I said about the R-4B being repair-friendly : received
>the recap set from Hayseed Hamfest today - the new electrolytic can is
>beautiful, it sparkles.
>
> Taking out the old, original wasn't a piece of cake - getting the connections
>off was easy but then I realized that two of the tabs were soldered to the
>chassis in places without acces - after 45 minutes of head-scratching/hair
>pulling realized it will take BRUTE FORCE.
>
> Disconnected and moved slightly the phone jack and the boad adjacent then sawed
>for about 10 minutes with a short blade, all on the top side of the chassis -

>got to the point where the "stuffings" were easy to pull out - then with a
>massive pair of vice grips ripped the old can off the chassis - came clean as a
>whistle, no scratch marks! amazing. Then a rat-tail file cleaned up the rough
>solder edges on the under side - the new can went in smooth as silk.
>
> Have to get and connect a 1KR resistor between the two tabs then we're done -
>not easy getting BIG solder blobs off the chassis in deep, crowded
>spaces/volumes using a small tip iron.
>
> 73 de Grant
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

5069. Trio JR-599 Custom Special

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-05 23:02:56 UTC
From: William Houghton
Topic: 5069 Message: 5069

Hi guys, a non-Drake question. Has anyone ever heard of a Trio JR-599 Custom Special receiver? Are they any good ?

Tnx,

Bill

[Non-text portions of this message have been removed]

5070. Re: [DrakeRadio] Trio JR-599 Custom Special

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 00:39:57 UTC
From: Bruce
Topic: 5069 Message: 5070

Hello Bill,

The Kenwood Twins (599 receiver and transmitter) have a good
reputation, and are still popular. You can get all the info
you want on the Kenwood list.

73, Bruce WA8TNC
==========
William Houghton wrote:
>
> Hi guys, a non-Drake question. Has anyone ever heard of a Trio JR-599
> Custom Special receiver? Are they any good?
>
> Tnx,
>
> Bill

5071. Re: [DrakeRadio] Trio JR-599 Custom Special

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 01:12:33 UTC
From: Tim Kass
Topic: 5069 Message: 5071

The JR-599 is the same as the R-599 (Kenwood)...Trio became Kenwood..it was a very good receiver, ham band only except for the WWV band which covered 9.5- 10 Mhz as I recall. .25 microvolt sensitivity..decent selectivity as well. This was the first one, they later came out with a R-599A which had a different dial setup, planetary drive like the R-4 series and some other improvements...these could come with the optional 6 and 2 meter IF convertors making them also covering those bands...the nearly impossible-to-find connecting cable to the transmitter is the trick.... the connector is also weird, military or something..

73, Tim K8WBL

--- On Sat, 3/5/11, Bruce <bsugarberg@...> wrote:

From: Bruce <bsugarberg@...>
Subject: Re: [DrakeRadio] Trio JR-599 Custom Special
To: DrakeRadio@yahoogroups.com
Date: Saturday, March 5, 2011, 7:39 PM

Hello Bill,

The Kenwood Twins (599 receiver and transmitter) have a good
reputation, and are still popular. You can get all the info
you want on the Kenwood list.

73, Bruce WA8TNC
==========
William Houghton wrote:
>
> Hi guys, a non-Drake question. Has anyone ever heard of a Trio JR-599
> Custom Special receiver? Are they any good?
>
> Tnx,
>
> Bill

[Non-text portions of this message have been removed]

5072. A couple of TR-4 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 20:09:17 UTC
From: Fraser
Topic: 5072 Message: 5072

I have a TR-4 back into working condition. I have not yet attempted an alignment, but I can receive and transmit.

I only have a 100watt slug for my Bird43, but when connected to a dummy load, on CW I can easily get over 100watts and the same when whistling into the mic (Shure 450). However, when speaking, even close to the mic and in a fairly loud voice, I can barely manage 15 watts on peaks. That just doesn't seem right?

And finally, how many turns should the Carrier Balance control have. Mine seems to go on forever...

Thanks for any help.

Fraser, W3UTD

5073. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 20:38:00 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5073

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5074. Re: [DrakeRadio] A couple of TR-4 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 20:38:25 UTC
From: William Houghton
Topic: 5072 Message: 5074

Hi Fraser,

In my experience reading the wattmeter while speaking is an exercise in futility. The meter can't respond quickly to the peaks and valley in speech. A regular scope or monitor scope is much better for what you're trying to see. I have an old Heathkit IO-10 and its great for this.

The carrier balance control will have an infinite number of turns. The shaft is on ball bearings, but doesn't have a mechanical stop, and will slip once it reaches either end.

Bill

From: Fraser <fraser_w3utd@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 6, 2011 12:09:17 PM
Subject: [DrakeRadio] A couple of TR-4 questions

I have a TR-4 back into working condition. I have not yet attempted an alignment, but I can receive and transmit.

I only have a 100watt slug for my Bird43, but when connected to a dummy load, on CW I can easily get over 100watts and the same when whistling into the mic (Shure 450). However, when speaking, even close to the mic and in a fairly loud voice, I can barely manage 15 watts on peaks. That just doesn't seem right?

And finally, how many turns should the Carrier Balance control have. Mine seems to go on forever...

Thanks for any help.

Fraser, W3UTD

[Non-text portions of this message have been removed]

5075. Re: [DrakeRadio] A couple of TR-4 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-06 20:47:30 UTC
From: Garey Barrell
Topic: 5072 Message: 5075

Fraser -

Probably nothing wrong. Average power doesn't move meters much, plus the meters on the TR-4 are sluggish. Add in the meter damping on your wattmeter and it's tough to get them to show much. You really need a peak reading meter or scope to 'see' peak power on SSB. The cheapest, oldest Heathkit or other scope is fine for monitoring. You didn't mention where the MIC GAIN control is set on the TR-4. The ALC won't let you over-drive it, so don't hesitate to turn it up. There's a possibility that the mic is 'sorta' bad, but it IS high impedance, high output, so if it works on other rigs it's just fine.

The Carrier Balance pot is a 10 turn variety, AND has no stops at either 'end'. It's a 'ball drive' so slips pretty easily. If you turn it 15 or so turns in one direction, and then turn it back 5 turns, you'll probably be near the center.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Fraser wrote:
> I have a TR-4 back into working condition. I have not yet attempted an alignment, but I can receive and transmit.
>
> I only have a 100watt slug for my Bird43, but when connected to a dummy load, on CW I can easily get over 100watts and the same when whistling into the mic (Shure 450). However, when speaking, even close to the mic and in a fairly loud voice, I can barely manage 15 watts on peaks. That just doesn't seem right?
>
> And finally, how many turns should the Carrier Balance control have. Mine seems to go on forever...
>
> Thanks for any help.
>
> Fraser, W3UTD
>
>
>

5076. 2b

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 00:11:37 UTC
From: billjhs1
Topic: 5076 Message: 5076

Hello to all,
looking for a 11 mhz crystal for my 2b...can't seem to find one..does anyone have one???
73
Bill

5077. R4 and T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 00:14:07 UTC
From: billjhs1
Topic: 5077 Message: 5077

Hello to all,
Having some trouble with my R4/T4x on cw...I get a tone when I switch to cw...its low and in the background,but its annoying to say the least..I never tried the rig on cw since I bought them 3 years ago but my dx 40 and 2b combo are on the fritz...any help???
73 BIll

5078. Re: A couple of TR-4 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 02:04:51 UTC
From: Fraser
Topic: 5072 Message: 5078

Thanks for the insight, I guess I was being too conservative with the mic gain. I turned it up and made about 30 contacts at the end of this evenings SSB contest on 20m and 40m, so I think I'm good to go.

73,

Fraser, W3UTD

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fraser -
>
> Probably nothing wrong. Average power doesn't move meters much, plus
> the meters on the TR-4 are sluggish. Add in the meter damping on your
> wattmeter and it's tough to get them to show much. You really need a
> peak reading meter or scope to 'see' peak power on SSB. The cheapest,
> oldest Heathkit or other scope is fine for monitoring. You didn't
> mention where the MIC GAIN control is set on the TR-4. The ALC won't
> let you over-drive it, so don't hesitate to turn it up. There's a
> possibility that the mic is 'sorta' bad, but it IS high impedance, high
> output, so if it works on other rigs it's just fine.
>
> The Carrier Balance pot is a 10 turn variety, AND has no stops at either
> 'end'. It's a 'ball drive' so slips pretty easily. If you turn it 15
> or so turns in one direction, and then turn it back 5 turns, you'll
> probably be near the center.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Fraser wrote:
> > I have a TR-4 back into working condition. I have not yet attempted an alignment, but I can receive and transmit.
> >
> > I only have a 100watt slug for my Bird43, but when connected to a dummy load, on CW I can easily get over 100watts and the same when whistling into the mic (Shure 450). However, when speaking, even close to the mic and in a fairly loud voice, I can barely manage 15 watts on peaks. That just doesn't seem right?
> >
> > And finally, how many turns should the Carrier Balance control have. Mine seems to go on forever...

> >
> > Thanks for any help.
> >
> > Fraser, W3UTD
> >
> >
> >
>

5079. Re: [DrakeRadio] R4 and T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 03:18:34 UTC
From: Garey Barrell
Topic: 5077 Message: 5079

Bill -

Most likely high ESR on C132. Try bridging with a good cap.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billjhs1 wrote:
> Hello to all,
> Having some trouble with my R4/T4x on cw...I get a tone when I switch to
> cw...its low and in the background,but its annoying to say the least..I never tried the rig on cw since I bought them 3 years ago but my dx 40 and 2b combo are on the fritz...any help???
> 73 BIll
>
>
>

5080. Re: [DrakeRadio] R4 and T4x

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 03:21:06 UTC
From: Bill Hendrickson
Topic: 5077 Message: 5080

Tnx. I'll give it a try

sent via samsung android..

On Mar 6, 2011 10:18 PM, "Garey Barrell" <k4oah@...> wrote:

Bill -

Most likely high ESR on C132. Try bridging with a good cap.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billjhs1 wrote:
> Hello to all,
> Having some trouble with my R4/T4x on cw...I get a tone when I s...

[Non-text portions of this message have been removed]

5081. Re: [DrakeRadio] 2b

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 19:43:06 UTC
From: Lee Buller
Topic: 5076 Message: 5081

Call International Crystal Manufacture in Oklahoma City. They are on the web.
The lady on the phone takes the order and knows about ham radio equipment.
$20.00 postage paid.

Lee - K0WA

In our day and age it seems that Common Sense is in short supply. If you don't have any Common Sense - get some Common Sense and use it. If you can't find any Common Sense, ask for help from somebody who has some Common Sense. Is Common Sense divine?

Common Sense is the image of the Creator expressing revealed truth in my mind.
- John W. (Kansas)

From: billjhs1 <billjhs@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 6, 2011 6:11:37 PM
Subject: [DrakeRadio] 2b

Hello to all,
looking for a 11 mhz crystal for my 2b...can't seem to find one..does anyone have one???
73
Bill

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5082. WTB: Clean - Mint C-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-07 20:07:07 UTC
From: Rich Hallman - N7TR
Topic: 5082 Message: 5082

Looking for a clean c-line for purchase...Let me know what you have.

Thanks...
Rich

Rich N7TR
ex KI3V, N3AMK, WB3JOV
www.n7tr.com
Telnet: dxc.n7tr.com N7TR DXCluster

[Non-text portions of this message have been removed]

5083. R4C on medium waves ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 10:24:19 UTC
From: Michele
Topic: 5083 Message: 5083

Hello group,
I was wondering if someone has tried to use the Drake R4C on medium waves below the stated limit of 1.5 MHz, by inserting a low-frequency crystal. I was thinking about using a 12.1 MHz crystal to cover the 1.0 - 1.5 MHz range.... any opinion ?
Thanks,

Michele

5084. R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 10:30:08 UTC
From: Michele
Topic: 5084 Message: 5084

Hello again,
is anybody aware of a source for a "crystal eliminator" (i.e. DDS) for my Drake R4C ?
Thanks for any info !

Michele

5085. Re: [DrakeRadio] R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 13:56:32 UTC
From: Lee Hiers
Topic: 5084 Message: 5085

On Tue, Mar 8, 2011 at 5:30 AM, Michele <damico@...> wrote:

> is anybody aware of a source for a "crystal eliminator" (i.e. DDS) for my
> Drake R4C ?
>

There's the FS-4...FAR Circuits offers a kit as well (from a QST article).

--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

5086. Re: [DrakeRadio] R4C on medium waves ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:09:18 UTC
From: Garey Barrell
Topic: 5083 Message: 5086

Michele -

The lower limit on the Preselector (RF, Mixer and PreMixer) stages tuning is slightly below 1.8 MHz. Adding a crystal will get you 'some' BC stations, but at greatly reduced levels.

The "correct" approach is with an up-converter like the Drake 2-LF, a passive mixer that upconverts the 0.5 to 2.0 MHz range to 28.0 - 29.5 MHz. Not a difficult circuit to build, merely a packaged DBM and a crystal oscillator at 27.5 MHz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Michele wrote:
> Hello group,
> I was wondering if someone has tried to use the Drake R4C on medium waves below the stated limit of 1.5 MHz, by inserting a low-frequency crystal. I was thinking about using a 12.1 MHz crystal to cover the 1.0 - 1.5 MHz range.... any opinion ?
> Thanks,
>
> Michele
>
>
>

5087. Re: [DrakeRadio] R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:19:39 UTC
From: Gary S
Topic: 5084 Message: 5087

http://www.qsl.net/k5bcq/Kits/Kits.html

their
"Si570 controller and frequency generator kit" might do the job....

Gary
vk2zbb

From: Lee Hiers <aa4ga@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, 9 March, 2011 12:56:32 AM
Subject: Re: [DrakeRadio] R4C Crystal Eliminator ?

On Tue, Mar 8, 2011 at 5:30 AM, Michele <damico@...> wrote:

> is anybody aware of a source for a "crystal eliminator" (i.e. DDS) for my
> Drake R4C ?
>

There's the FS-4...FAR Circuits offers a kit as well (from a QST article).

--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5088. spot position on T-X4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:26:37 UTC
From: wb2kki
Topic: 5088 Message: 5088

When I try to spot on my T-X4C it trips the antenna relay and mutes my RX as it should in the TX mode.

Problem is I can't hear the beat note even when I unmute the rx.

Is there a mod for this and is this the the way it is supposed to work?
You would think it would not engage these things in spot mode so you can hear the beat note.

Thanks!!
Mike
WB2KKI

5089. Re: [DrakeRadio] R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:33:49 UTC
From: Garey Barrell
Topic: 5084 Message: 5089

Michele -

There are several. There is the Drake FS-4, which was the original product. Quite complex with multiple semiconductors as was typical for the day.

There was a homebrew version of a 'Frequency Synthesizer" in Ham Radio, August 1972, by Stein.

There was a further 'integrated' PLL version in QST by Hageman in June 2004.

The Woodbox DDS-4 was a DDS (9851) based unit in 2004 from an Italian company that was too expensive to survive.

There are several little DDS based 'VFO' kits (N3ZI) that could probably be adapted.

Probably more, but that's all I can think of. So yes, there are options.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Michele wrote:
> Hello again,
> is anybody aware of a source for a "crystal eliminator" (i.e. DDS) for my Drake R4C ?
> Thanks for any info !
>
> Michele
>
>
>

5090. Re: [DrakeRadio] R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:35:54 UTC
From: Garey Barrell
Topic: 5084 Message: 5090

Gary -

Possibly. The Si570 output is a square wave, which may or may not be a problem in this application.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary S wrote:
> http://www.qsl.net/k5bcq/Kits/Kits.html
>
> their
> "Si570 controller and frequency generator kit" might do the job....
>
>
> Gary
> vk2zbb
>
>

5091. Re: [DrakeRadio] spot position on T-X4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 14:45:33 UTC
From: Garey Barrell
Topic: 5088 Message: 5091

Mike -

SPOT mode does trip the antenna relay, but it should NOT MUTE the receiver.

The low level stages are keyed, just not the PA.

In SSB, both units must be on the same SIDEBAND.

Most likely the problem is in the TRANSCEIVE switch and will be 'fixed'
by judicious application of DeoxIT. It's certainly the place to start!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wb2kki wrote:
> When I try to spot on my T-X4C it trips the antenna relay and mutes my RX as it should in the TX mode.
>
> Problem is I can't hear the beat note even when I unmute the rx.
>
> Is there a mod for this and is this the the way it is supposed to work?
> You would think it would not engage these things in spot mode so you can hear the beat note.
>
> Thanks!!
> Mike
> WB2KKI
>
>

5092. Re: [DrakeRadio] R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 15:11:58 UTC
From: Paul Christensen
Topic: 5084 Message: 5092

I believe Floyd, K8AC designed his own DDS VFO rendition for his TR-7 that looks like it could be adapted to the 4 series. He's got a lot of useful information on his website. Keep in mind that some early PLL synthesizer and DDS designs are plagued with spurs and relatively high levels of phase noise.

A hybrid option is to use one of the frequency counters made for the Drake units and use a K4DPK VFO stabilizer. I have a pair for my C Line, but have not tried them yet.

Paul, W9AC

[Non-text portions of this message have been removed]

5093. Re: [DrakeRadio] spot position on T-X4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 18:08:41 UTC
From: Michael Shelly
Topic: 5088 Message: 5093

The rx mutes because I have it connected to the same relay for the antenna
switch.

I overcome this by changing the mode switch to operate (for beating) on the rx
but still can hardly hear the beat.

So the sitch is working Ok.

Mike

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, March 8, 2011 9:45:33 AM
Subject: Re: [DrakeRadio] spot position on T-X4C

Mike -

SPOT mode does trip the antenna relay, but it should NOT MUTE the receiver.

The low level stages are keyed, just not the PA.

In SSB, both units must be on the same SIDEBAND.

Most likely the problem is in the TRANSCEIVE switch and will be 'fixed'
by judicious application of DeoxIT. It's certainly the place to start!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wb2kki wrote:
> When I try to spot on my T-X4C it trips the antenna relay and mutes my RX as it
>should in the TX mode.
>
> Problem is I can't hear the beat note even when I unmute the rx.
>
> Is there a mod for this and is this the the way it is supposed to work?
> You would think it would not engage these things in spot mode so you can hear
>the beat note.
>
> Thanks!!
> Mike
> WB2KKI
>

>

[Non-text portions of this message have been removed]

5094. Re: [DrakeRadio] spot position on T-X4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 18:17:22 UTC
From: Garey Barrell
Topic: 5088 Message: 5094

The T-R relay in the T-4X has a pair of contacts that MUTE the receiver
by opening in TRANSMIT (or SPOT) and switches the antenna from the
transmitter output to the receiver input.

In SPOT mode, those MUTE contacts are shorted by a section of the
TRANSCEIVE switch when it is put in the SPOT position, switching the
antenna, but NOT muting the receiver.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Michael Shelly wrote:
> The rx mutes because I have it connected to the same relay for the antenna
> switch.
>
>
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>
>
> So the sitch is working Ok.
>
> Mike
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, March 8, 2011 9:45:33 AM
> Subject: Re: [DrakeRadio] spot position on T-X4C
>
>
> Mike -
>
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>
> The low level stages are keyed, just not the PA.
>
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> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> wb2kki wrote:
>
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>> should in the TX mode.
>>
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>> Thanks!!
>> Mike
>> WB2KKI
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5095. Re: [DrakeRadio] spot position on T-X4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 18:26:45 UTC
From: Michael Shelly
Topic: 5088 Message: 5095

Thanks Garey!

Mike

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, March 8, 2011 1:17:22 PM
Subject: Re: [DrakeRadio] spot position on T-X4C

The T-R relay in the T-4X has a pair of contacts that MUTE the receiver
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In SPOT mode, those MUTE contacts are shorted by a section of the
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Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> Mike
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>
>
>
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, March 8, 2011 9:45:33 AM
> Subject: Re: [DrakeRadio] spot position on T-X4C

>
>
> Mike -
>
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> Glen Allen, VA
>
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>> Is there a mod for this and is this the the way it is supposed to work?
>> You would think it would not engage these things in spot mode so you can hear
>> the beat note.
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>> Thanks!!
>> Mike
>> WB2KKI
>>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

5096. Re: R4C Crystal Eliminator ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 20:23:24 UTC
From: Michele
Topic: 5084 Message: 5096

Thank you everybody for the exaustive answers !!
I am really anjoying my R4C.

Michele

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Gary -
>
> Possibly. The Si570 output is a square wave, which may or may not be a
> problem in this application.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Gary S wrote:
> > http://www.qsl.net/k5bcq/Kits/Kits.html
> >
> > their
> > "Si570 controller and frequency generator kit" might do the job....
> >
> >
> > Gary
> > vk2zbb
> >
> >
>

5097. 2B 11.0 MHz crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-08 21:18:24 UTC
From: Bry Carling
Topic: 5097 Message: 5097

I have the 11.0 MHz crystals in stock for $16.00 each.

http://www.af4k.com/hc6u_crystals.htm

73 - Bry, AF4K

From: billjhs1 <billjhs@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 6, 2011 6:11:37 PM
Subject: [DrakeRadio] 2b

Hello to all,
looking for a 11 mhz crystal for my 2b...can't seem to find one..does
anyone
have one???
73
Bill

[Non-text portions of this message have been removed]

5098. Re: [DrakeRadio] R4C on medium waves ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-09 19:03:39 UTC
From: Charles Ring
Topic: 5083 Message: 5098

Using the crystal for 160 meters, I can get down to I think 1390 Kc
before the preselector bottoms out, and to 1330 with reduced sensitivity.

On 3/8/2011 9:09 AM, Garey Barrell wrote:
>
> Michele -
>
> The lower limit on the Preselector (RF, Mixer and PreMixer) stages
> tuning is slightly below 1.8 MHz. Adding a crystal will get you 'some'
> BC stations, but at greatly reduced levels.
>
> The "correct" approach is with an up-converter like the Drake 2-LF, a
> passive mixer that upconverts the 0.5 to 2.0 MHz range to 28.0 - 29.5
> MHz. Not a difficult circuit to build, merely a packaged DBM and a
> crystal oscillator at 27.5 MHz.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Michele wrote:
> > Hello group,
> > I was wondering if someone has tried to use the Drake R4C on medium
> waves below the stated limit of 1.5 MHz, by inserting a low-frequency
> crystal. I was thinking about using a 12.1 MHz crystal to cover the
> 1.0 - 1.5 MHz range.... any opinion ?
> > Thanks,
> >
> > Michele
> >
> >
> >
>
>

[Non-text portions of this message have been removed]

5099. Re: R4C on medium waves ?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-11 04:18:48 UTC
From: Gary
Topic: 5083 Message: 5099

All true, BUT, if you just want to listen to the local AM stations,
they are really strong and you get excellent reception down to at
least 1.0MHz. It may depend slightly on your R4 alignment, you may
be able to "re-align" it to go a little lower.
73,
Gary
WB6OGD

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Michele -
>
> The lower limit on the Preselector (RF, Mixer and PreMixer) stages
> tuning is slightly below 1.8 MHz. Adding a crystal will get you 'some'
> BC stations, but at greatly reduced levels.
>
> The "correct" approach is with an up-converter like the Drake 2-LF, a
> passive mixer that upconverts the 0.5 to 2.0 MHz range to 28.0 - 29.5
> MHz. Not a difficult circuit to build, merely a packaged DBM and a
> crystal oscillator at 27.5 MHz.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Michele wrote:
> > Hello group,
> > I was wondering if someone has tried to use the Drake R4C on medium waves below the
stated limit of 1.5 MHz, by inserting a low-frequency crystal. I was thinking about using a
12.1 MHz crystal to cover the 1.0 - 1.5 MHz range.... any opinion ?
> > Thanks,
> >
> > Michele
> >
> >
> >
>

5100. FS DRAKE RV-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-11 19:27:07 UTC
From: Kris Merschrod
Topic: 5083 Message: 5100

DRAKE RV-4 (Detailed Photos Available) Asking $120.00

The remote VFO is a nice accessory for Drake Transceivers. It provides a speaker and a place for the AC-3 or AC-4 power supply, plus it allows split operation for the TR-3 or TR-4 transceivers.

This is an early RV-4, two-tube version (OA2 and 12AU7; Serial Number 15039 - early 1973). Later models were single tube. The faceplate is very clean and has the silver trim around the perimeter. Later models did not have the silver trim. The cabinet is dull and scuffed in places. The rear feet are not original. The chassis (copper plated) has the usual "freckles" and underneath in one corner it is "rusted."

I have tried to use it with my late model TR-4CWx; It only works in one position, and I can't figure out why. It seems to attenuate the reception and the transmitted signal.

Although the original speaker is included, I have installed a new 4 ohm speaker for a better sound. It will be well packed. Buyer pays actual shipping (Approximately $15 Stateside).

Kris KM2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net

[Non-text portions of this message have been removed]

5101. AM filter for Drake R4C wanted..

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-11 21:08:57 UTC
From: Michele
Topic: 5101 Message: 5101

Dear all,

I am looking for a AM filter for my Drake R4C; I would be happy with both the 4 kHz or the 6 kHz filter, doesn't matter if original or not. If someone wants to depart from his/her filter and is willing to ship to Italy, I will be pleased to get in touch. I can pay via Paypal.
73,

Michele IZ2EAS

5102. NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 19:45:03 UTC
From: Dan Galligan
Topic: 5102 Message: 5102

You can look them up, on a plethora of threads, in the discussion forums on QRZ, QTH, eHam and others. This is Martyn Allison. The same guy who ripped off my friend Allen, and caused Allen to not want to do business with eBay ever again. Allen sold him a perfectly good used radio, for a recently deceased ham's wife. Allen is a very knowledgeable guy, and checked the radio thoroughly, before shipping it out. It had one display light burned out, that he mentioned to the buyer. The radio was raided of parts, then returned, making a big stink about the missing parts, which HE took. Allen was left with costs associated with repairing the radio, and a bad reputation on eBay, which is totally due to this action.
He did me wrong, in selling a supposed "Mint" Drake AC4, that turned out to be in FAR less than perfect condition, and had a taped up, leaky electrolytic capacitor, laying loose inside the case. He told me that his "Technician thought you might be able to use this, so it was thrown in". Inside the case? What use would I have for a leaky electrolytic? He has a high feedback score, due to eBay's way of calculating feedback scores, but look at the comments, under his actual feedback, and you'll see that it is common for this guy to "pull a fast one" on unsuspecting buyers and sellers. I had a couple of heated exchanges, with him, when he made obvious misrepresentations of radios he was selling. I don't know why they sent me this. I must have been in his address book, and they sent it to everyone.
This guy is the reason for the old Latin phrase "Caveat Emptor", or Buyer Beware. He is a ripoff artist. We all need to look out for one another, and make sure to inform everyone we know, about guys like this.
Dan Galligan

Begin forwarded message:
Fwd: NEW HAM RADIO SITE
From: Leslie Allison <leslieallison@...>
Date: March 14, 2011 8:20:44 AM PDT
Subject: NEW HAM RADIO SITE

Dear Valued Customer;
Please come visit our NEW SITE! It is finally finished, and we are very pleased with the work that has been done. We trust you will find the site, informative, easy to navigate and hope you will add us as a Bookmarked favorite!

www.radio-mart.net

To our Friends in Japan... our hearts & thoughts are with you at this very trying & frightening time.

Many Thanks & Have a Blessed Day
Leslie Allison
859.312.3857 (mobile)

NEVER pay excessive e-Bay fees again!!!
Visit www.webstore.com to find out HOW!
100% FREE TO SELL & BUY!!!!!

iLove2Cell.Webstore.com
RadioMart.Webstore.com
http://radio-mart.net

[Non-text portions of this message have been removed]

5103. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 20:05:40 UTC
From: Bob Macklin
Topic: 5102 Message: 5103

This is "Radio-Mart". I thought all people on these lists knew about him.

He shipped me a Heath HM-15 that was not the one in the photo. Before ebay changed the feedback he had very bad feedback.

When I gave him negative feedback he gave me negative feedback in retaliation. He cannot do that anymore.

If I see his name on a listing I just forget about it.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Dan Galligan
To: tcarcmembers@yahoogroups.com ; DrakeRadio@yahoogroups.com
Sent: Monday, March 14, 2011 12:45 PM
Subject: [DrakeRadio] NEVER do business with these folks

You can look them up, on a plethora of threads, in the discussion forums on QRZ, QTH, eHam and others. This is Martyn Allison. The same guy who ripped off my friend Allen, and caused Allen to not want to do business with eBay ever again. Allen sold him a perfectly good used radio, for a recently deceased ham's wife. Allen is a very knowledgeable guy, and checked the radio thoroughly, before shipping it out. It had one display light burned out, that he mentioned to the buyer. The radio was raided of parts, then returned, making a big stink about the missing parts, which HE took. Allen was left with costs associated with repairing the radio, and a bad reputation on eBay, which is totally due to this action.
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Dan Galligan

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Fwd: NEW HAM RADIO SITE
From: Leslie Allison <leslieallison@...>
Date: March 14, 2011 8:20:44 AM PDT

Subject: NEW HAM RADIO SITE

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Many Thanks & Have a Blessed Day
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[Non-text portions of this message have been removed]

5104. RE: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 20:16:34 UTC
From: Jim Chaggaris
Topic: 5102 Message: 5104

Good ole Martin. He is a piece isn't he.

Luckily, I've never bought anything from him but I have sold to him. He's bought items from me off of Ebay under Radio-Mart or his other alias "GottaHaveit". Let everyone know that he commonly practices "shill bidding" with his auctions by having his buddies bid up his equipment for him. Last year, he bought a mint Kenwood 2M all mode transceiver from me that I sold on Ebay for the widow of a SK. I thought to myself "I wonder how long Martin will sit on this purchase before he relists it on Ebay again". It only took 2 weeks before Radio-Mart listed the item. I laughed.

Martin is a cheat and anyone who buys from him better be ready to be disappointed.

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Macklin
Sent: Monday, March 14, 2011 3:06 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] NEVER do business with these folks

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When I gave him negative feedback he gave me negative feedback in retaliation. He cannot do that anymore.

If I see his name on a listing I just forget about it.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Dan Galligan
To: tcarcmembers@yahoogroups.com <mailto:tcarcmembers%40yahoogroups.com> ;
DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Monday, March 14, 2011 12:45 PM
Subject: [DrakeRadio] NEVER do business with these folks

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Dan Galligan

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Fwd: NEW HAM RADIO SITE
From: Leslie Allison <leslieallison@...
<mailto:leslieallison%40roadrunner.com> >
Date: March 14, 2011 8:20:44 AM PDT
Subject: NEW HAM RADIO SITE

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www.radio-mart.net

To our Friends in Japan... our hearts & thoughts are with you at this very trying & frightening time.

Many Thanks & Have a Blessed Day
Leslie Allison
859.312.3857 (mobile)

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RadioMart.Webstore.com
http://radio-mart.net

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

5105. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 20:20:13 UTC
From: Dan Galligan
Topic: 5102 Message: 5105

Bob,
Me too. I avoid him like the plague. At one point, I thought he was running a legit business, selling collector quality stuff, then 3, or 4 years ago, I bought that AC4 from him, and my thought of him being legit, went right out the window, into the gutter. My friend, Allen, sold to him, before letting me know, who the buyer was. Frankly, I never thought of how to scam a seller, like that, and probably would not have told Allen anything other than my experience as a buyer. These kinds of folks are a scourge on our community, and we need to do the email equivalent of a "Blanket Party" on them.

5106. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 20:24:04 UTC
From: William Houghton
Topic: 5102 Message: 5106

Thanks every oen for the info. I almosr bid on some gear he was selling. Just by chance, tomorrow morning I will be at ebay as I was selected to participate in a user survey. I will ask them about this.

Bill

From: Dan Galligan <w3rxo@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, March 14, 2011 1:20:13 PM
Subject: Re: [DrakeRadio] NEVER do business with these folks

Bob,
Me too. I avoid him like the plague. At one point, I thought he was running a legit business, selling collector quality stuff, then 3, or 4 years ago, I bought that AC4 from him, and my thought of him being legit, went right out the window, into the gutter. My friend, Allen, sold to him, before letting me know, who the buyer was. Frankly, I never thought of how to scam a seller, like that, and probably would not have told Allen anything other than my experience as a buyer. These kinds of folks are a scourge on our community, and we need to do the email equivalent of a "Blanket Party" on them.

[Non-text portions of this message have been removed]

5107. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 20:48:42 UTC
From: Lee Hiers
Topic: 5102 Message: 5107

On Mon, Mar 14, 2011 at 4:16 PM, Jim Chaggaris <jimc@...> wrote:

> Let everyone know that he commonly practices "shill bidding"
> with his auctions by having his buddies bid up his equipment for him.
>
I've never heard of Martin, then again, I've never done any buying and selling of radio stuff on eBay. But I do have a fair bit of experience with eBay, having worked for a dealer who traded in vintage and high-end guitars. He was regularly accused of shill bidding also, but didn't do it. The high-end guitar market is a pretty small one, with a number of the same folks bidding on a limited number of guitars...probably similar to the ham radio market, which is even smaller, which could tend to make some bids look like shills that aren't. That was the case with us.

> Last
> year, he bought a mint Kenwood 2M all mode transceiver from me that I sold
> on Ebay for the widow of a SK. I thought to myself "I wonder how long
> Martin will sit on this purchase before he relists it on Ebay again". It
> only took 2 weeks before Radio-Mart listed the item. I laughed.
>
That was our basic business plan. We would find instruments (most often on eBay) that had poor descriptions, poor photos, or just depressed prices for whatever reason and buy them. It was usually two to three weeks before we had re-photographed (that was my job) and re-listed (usually with better write-ups) the instruments. I remember one item I wrote up (because those instruments are my specialty and even more of a niche item) that had languished on eBay with no bids at an opening price of $5k due to a poor writeup with spelling errors and fuzzy photos. We bought it for that on a snipe bid, and within a week or two I had re-photographed the item and re-listed it with a great description. It sold within 12 hours of our re-listing for a BuyItNow of $6k to a collector in Japan. We didn't usually make that kind of spread that quickly, but we were quite active on eBay, both as a buyer and a seller. And took a lot of flack for it on various online forums.

Like I say, I don't know Martin at all and certainly won't vouch for him, and if he is the cheat he seems to be, I hope no one here gets burned. I'll be sure to watch out for him and be careful, as I am starting to watch eBay for radio gear - casually looking for a T4X (to marginally bring the thread back on topic!). But I did want to point out my experience working for a very visible eBay dealer.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

5108. Re: NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 21:20:08 UTC
From: toptyp19
Topic: 5102 Message: 5108

As an aside to this thread. Here is a great URL to check the feedback of any eBay user:

www.toolhaus.org

I have used it many times over the past few years to see just what particulars buyers and sellers were most agitated about concerning their transactions. Mr. Allison has quite a list.

5109. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-14 22:46:51 UTC
From: Don Cunningham
Topic: 5102 Message: 5109

He has been on QTH.COM lately too. Callsign is K4TEC. I have never been bitten, but seen some places where I could have been if I had taken the bait.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5110. Re: NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-15 16:41:32 UTC
From: jb
Topic: 5102 Message: 5110

Yeah, agreed!
I have thrown a bid or two his way on e-bay. He always has really nice looking stuff. I had noticed bidding was always pretty high too. Too high for me. Now I know why and am glad I didn't win....er...lose.

I had heard a comment about him here or there but I try not to judge too quickly. First hand reporting like this is valuable info. Thanks guys for sharing.

Except for an old Shure mic that turned out to be a piece of junk and a Icom R-71a receiver that the seller pulled the stock filters out of (high demand models), the only really bad experience I've had on the net was thru QTH (no fault of the site) trying to buy a SB-220 amp. Sent a $550 money order and never heard from the guy again. Learned to always use USPS money orders from that experience. Doing so makes that fraud a federal offence. I learned too late. Now-a-days I only use Paypal on big dollar items.

God bless
73
jb
kg6biw

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio@yahoogroups.com> , Dan Galligan <w3rxo@...> wrote:
>
> Bob,
> Me too. I avoid him like the plague. At one point, I thought he was running a legit business, selling collector quality stuff, then 3, or 4 years ago, I bought that AC4 from him, and my thought of him being legit, went right out the window, into the gutter. My friend, Allen, sold to him, before letting me know, who the buyer was. Frankly, I never thought of how to scam a seller, like that, and probably would not have told Allen anything other than my experience as a buyer. These kinds of folks are a scourge on our community, and we need to do the email equivalent of a "Blanket Party" on them.
>

[Non-text portions of this message have been removed]

5111. Capacitor Question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-15 17:00:13 UTC
From: fredwegener
Topic: 5111 Message: 5111

I'm trying to go through the injection coupling alignment on a TR-4. The manual calls for a .005pfd cap in series with a 1k resistor to be used from different tube pins to ground during the course of this alignment. This has got to be a misprint. Did they mean .005 microfarad? That would make more sense!

Thanks, Fred AC5TF

5112. Re: [DrakeRadio] Capacitor Question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-15 17:05:43 UTC
From: Garey Barrell
Topic: 5111 Message: 5112

Fred -

Yes, 0.005 uF disc ceramic.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

fredwegener wrote:
> I'm trying to go through the injection coupling alignment on a TR-4. The manual calls for a .005pfd cap in series with a 1k resistor to be used from different tube pins to ground during the course of this alignment. This has got to be a misprint. Did they mean .005 microfarad? That would make more sense!
>
> Thanks, Fred AC5TF
>
>
>

5113. Re: Capacitor Question...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-15 19:20:20 UTC
From: fredwegener
Topic: 5111 Message: 5113

Okay. Now that I can buy!

Thanks Garey, Fred AC5TF

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Fred -
>
> Yes, 0.005 uF disc ceramic.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> fredwegener wrote:
> > I'm trying to go through the injection coupling alignment on a TR-4. The manual calls for a .005pfd cap in series with a 1k resistor to be used from different tube pins to ground during the course of this alignment. This has got to be a misprint. Did they mean .005 microfarad? That would make more sense!
> >
> > Thanks, Fred AC5TF
> >
> >
> >
>

5114. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-15 22:59:53 UTC
From: Dan Galligan
Topic: 5102 Message: 5114

Lee, as a capitalist, I have no problem with someone who finds a way to buy low and sell high. That is the essence of capitalism. To be able to do it in the same store, where you bought it low, is odd, but not unheard of. One friend of mine buys and sells the same "scrap gold" on eBay, all the time. No problem.
Shill bidding is an iffy thing. Sometimes it may appear as if there is shill bidding going on, when there isn't. Other times there may be some form of that, by a seller having a friend "get the bidding started", or "over the hump of the reserve", and that, too is not so nefarious. Not very honest, but not nefarious.
But, this guy, Martyn, has so much negativity floating around about him, that doesn't involve these things, that one must conclude, "Where there's smoke, there is a fire" and he obviously is doing something with a fraudulent intent. Then, add in the accusations of shill bidding, and buying trashed radios, and reselling them as ***PRISTINE*** or **MINT**, One Owner, Non-Smoker, from my personal collection, or any other non-factual statement, and it is easy to see, just how crooked this guy is. Check some of the threads on QRZ and QTH, about him, and his fraudulent business practices.
Here are only a few, of the myriad commentary threads on the usual websites:
http://www.eham.net/ehamforum/smf/index.php/topic,6231.0.html
http://forums.qrz.com/showthread.php?285109-Radio-Mart-Martyn-K4TEC-Gone&p=2199206#post2199206
http://forums.qrz.com/showthread.php?285196-Curious-Situation-With-Our-Ol-Buddy-R-M-Over-In-Kentucky
http://forums.qrz.com/showthread.php?278402-New-RADIOMART-identity&highlight=radio-mart
http://forums.qrz.com/showthread.php?276482-Radio-Mart-now-licensed!&highlight=radio-mart
http://www.vr2xmt.com/ebayconradiomart.html
I was personally involved in a bad transaction, with a misrepresented item, and gave him neutral feedback, to avoid him hammering me with negative feedback, back when sellers COULD give negative feedback. So, in that respect, I guess I was part of the problem. I helped perpetuate his dishonesty, and therefore I am simply trying to make up for that mistake, by notifying folks of his crooked ways. I may urge people to not buy, but they will do, what they will do, and as long as they do so fully informed, I can do no more. While I harbor resentment over what Marty did to me, and my friend, I have no other legal recourse, at this point, so I use this method as my way to help deter folks from getting ripped off by Marty.
Again, Caveat Emptor.
73,
Dan
"Politicians are like diapers. They need to be changed frequently, and for the same reason"
Ronald Wilson Reagan, 40th President of the United States
aka The Gipper,
aka (affectionately known as) Reynaldus Magnus

5115. FS: T4/R4/MS4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-16 02:18:56 UTC
From: Fernando
Topic: 5115 Message: 5115

Need to bubble up some cash and willing to

sacrifice the subject radio.

T4 (Reciter)
R4 matching receiver
MS4 Speaker.

No AC4.

Excellent condition with manuals.

Would like to sell as a set and

asking $420 or B.O. plus shipping.

tnx Fernando N2FQ/6

5116. Re: [DrakeRadio] NEVER do business with these folks

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-16 14:45:30 UTC
From: Lee Hiers
Topic: 5102 Message: 5116

On Tue, Mar 15, 2011 at 6:59 PM, Dan Galligan <w3rxo@...> wrote:

> Here are only a few, of the myriad commentary threads on the usual
> websites:
> <http://www.eham.net/ehamforum/smf/index.php/topic,6231.0.html>
>
I'll have to check those out when I have some time....

> Again, Caveat Emptor.
>
Always!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

5117. RadioMart: etal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-16 15:47:07 UTC
From: Joe
Topic: 5117 Message: 5117

Gentle readers.....

I think we have discussed RadioMart and associates, long enough to inform those 'not in the know' and to satisfy our individual desires to help warn the unknowing potential eBay purchaser.

Let's start to bring this topic to a close and get back to Drake Radios!

Thanks for everyone's understanding and participation here in DrakeRadio!!

Joe Wolfe
WA6RKN
Moderator

5118. RE: [DrakeRadio] RadioMart: etal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-16 17:42:45 UTC
From: TERRY/N4SuB
Topic: 5117 Message: 5118

I agree-enough of the lynch mob. Lets get back to radios!
Terry N4SuB

On Wed, Mar 16, 2011 at 11:47 AM, Joe wrote:

> Gentle readers.....

I think we have discussed RadioMart and associates, long enough to
inform
those 'not in the know' and to satisfy our individual desires to help
warn
the unknowing potential eBay purchaser.

Let's start to bring this topic to a close and get back to Drake Radios!

Thanks for everyone's understanding and participation here in
DrakeRadio!!

Joe Wolfe
WA6RKN
Moderator

[Non-text portions of this message have been removed]

5119. "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-17 21:07:00 UTC
From: George
Topic: 5119 Message: 5119

I am looking to replace all the interconnecting cables on my C line and came across this place on the web. Nationwide Radio Sales.
http://www.marketworks.com/storefrontprofiles/default.aspx?sfid=86409.

Has anyone ever purchased from this place or know of a reliable place to get these cables. Thanks in advance for the help.

George,K2EPD
'73'

5120. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-17 21:18:57 UTC
From: Dan Galligan
Topic: 5119 Message: 5120

George,
Yes, I have made purchases from them. I bought parts for a Heathkit Marauder from him, as well as a very nice Ham III rotor and microphone, in another purchase. I seem to think I got my National NC-300 from him, too. Most recently I purchased his blue LED kits, for my Drake 4-Line stuff, and some spare feet. His stuff was well described, reasonably priced, shipped rapidly, and packed well. I would happily do business with him in the future, if need be.
I believe you will be happy as well.
73,
Dan
W3RXO/W6

On Mar 17, 2011, at 2:07 PM, George wrote:

I am looking to replace all the interconnecting cables on my C line and came across this place on the web. Nationwide Radio Sales.
http://www.marketworks.com/storefrontprofiles/default.aspx?sfid=86409.

Has anyone ever purchased from this place or know of a reliable place to get these cables. Thanks in advance for the help.

George,K2EPD
'73'

Yahoo! Groups Links

5121. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-17 21:38:22 UTC
From: George Graulich
Topic: 5119 Message: 5121

Thanks very much Dan. Will go ahead and order them. Just spent the last week redoing my shack and figured why not replace these cables. Thanks again.

--- On Thu, 3/17/11, Dan Galligan <w3rxo@...> wrote:

From: Dan Galligan <w3rxo@...>
Subject: Re: [DrakeRadio] "C" Line cables.
To: DrakeRadio@yahoogroups.com
Date: Thursday, March 17, 2011, 9:18 PM

George,
Yes, I have made purchases from them. I bought parts for a Heathkit Marauder from him, as well as a very nice Ham III rotor and microphone, in another purchase. I seem to think I got my National NC-300 from him, too. Most recently I purchased his blue LED kits, for my Drake 4-Line stuff, and some spare feet. His stuff was well described, reasonably priced, shipped rapidly, and packed well. I would happily do business with him in the future, if need be.
I believe you will be happy as well.
73,
Dan
W3RXO/W6

On Mar 17, 2011, at 2:07 PM, George wrote:

I am looking to replace all the interconnecting cables on my C line and came across this place on the web. Nationwide Radio Sales.
http://www.marketworks.com/storefrontprofiles/default.aspx?sfid=86409.

Has anyone ever purchased from this place or know of a reliable place to get these cables. Thanks in advance for the help.

George,K2EPD
'73'

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5122. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-17 23:26:40 UTC
From: Don Cunningham
Topic: 5119 Message: 5122

George,
I personally don't like the RG-59 "injection cables". I think there are better choices for that for the C Line. Just one man's opinion, however. YMMV.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5123. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 01:02:13 UTC
From: Paul Kraemer
Topic: 5119 Message: 5123

Leaving no stone unturned I recently needed a set for a 4 line and just used the red white yellow cables commonly supplied with every vcr ever sold. Worked fine. I tested these by comparison to some RG58 of same length and found them identical capacitance.
Anyway, not elegant but cheap. Like computer power cables they seem to multiply in the junk box at night. Plus, I like how flexible they are compared to others. And, I like the rubbery plugs.
YMMV. Just what works here.
Paul K0UYA
----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, March 17, 2011 6:26 PM
Subject: Re: [DrakeRadio] "C" Line cables.

> George,
> I personally don't like the RG-59 "injection cables". I think there are
> better choices for that for the C Line. Just one man's opinion, however.
> YMMV.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5124. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 01:39:58 UTC
From: Christmas Peter
Topic: 5119 Message: 5124

I use the rca phone pin cables as well on my TR 4C which I have muting and feeding the antenna to my SPR-4
They work just fine!
73
Doc
W2MFT

--- On Thu, 3/17/11, Paul Kraemer <elespe@...> wrote:

From: Paul Kraemer <elespe@...>
Subject: Re: [DrakeRadio] "C" Line cables.
To: DrakeRadio@yahoogroups.com
Date: Thursday, March 17, 2011, 9:02 PM

Leaving no stone unturned I recently needed a set for a 4 line and just used

the red white yellow cables commonly supplied with every vcr ever sold.

Worked fine. I tested these by comparison to some RG58 of same length and

found them identical capacitance.

Anyway, not elegant but cheap. Like computer power cables they seem to

multiply in the junk box at night. Plus, I like how flexible they are

compared to others. And, I like the rubbery plugs.

YMMV. Just what works here.

Paul K0UYA

----- Original Message -----

From: "Don Cunningham" <donc@martineer.net>

To: <DrakeRadio@yahoogroups.com>

Sent: Thursday, March 17, 2011 6:26 PM

Subject: Re: [DrakeRadio] "C" Line cables.

> George,

> I personally don't like the RG-59 "injection cables". I think there are

> better choices for that for the C Line. Just one man's opinion, however.

> YMMV.

> 73,

> Don, WB5HAK

>

> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

5125. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 04:40:46 UTC
From: Dan Galligan
Topic: 5119 Message: 5125

I must admit folks, that I did the same. I used some heavier duty stereo interconnects, that were laying around, from my days before using my computer as a stereo. The interconnects made by Monster Cable, work well for me, but if you have to buy some, they would be awful pricey for use in George's situation. I believe some standard interconnects of good quality would be sufficient. My initial reply to George, was simply an endorsement of the business which he had chosen. They do good business, was all I was saying.
But, if I were to need more interconnects for my "B" or "C" Lines, I would simply use those leftovers from the component stereo system.
One caveat though, I was told when I had Jeff Covelli work on my "B" Line, that it is best to make all adjustments with the same cables as you will be using in actual use.

73,
Dan

5126. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 04:52:37 UTC
From: Jim Shorney
Topic: 5119 Message: 5126

On Thu, 17 Mar 2011 21:40:46 -0700, Dan Galligan wrote:

>
>I must admit folks, that I did the same. I used some heavier duty stereo interconnects, that were laying around, from my days before using my computer as a stereo.

This question has been covered many times on the Drakelist reflector. Here is the best-informed answer on the Drake cables, from Garey Barrell:

"The original Drake supplied cables were all standard "microphone" shielded wire, with the exception of the "INJ" cable. All but the INJ cable were similar to what is used in audio patch cables today.

All cables were 38" long tip-to-tip.

The INJ cable used a foam inner dielectric and phono connectors with a white insulation. This cable measures 60 pF total capacity.

All other cables used the standard for the day clear polyethelene inner dielectric and phenolic (brown) insulated phono connectors and measures ~100 pF.

Original Drake INJ Cable = 19 pF/ft = .160" o.d. (foam poly)

RG-62 = 93R = 13.5 pF/ft = 0.240" o.d.
RG-59 = 75R = 14.8 pF/ft = 0.242" o.d.
RG-6 = 75R = 16.2 pF/ft = 0.270" o.d.
RG-174= 50R = 30.8 pF/ft = 0.110" o.d.
Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
Mic Cable (Belden 8421) = Hi-Z = 16 pf/ft = 0.180" o.d. (foam poly)
R/S Audio Patch Cable = 28 pF/ft = 0.165" o.d. (poly)

The best choice is the Belden 8421 Audio cable from their "Brilliance" line. It looks just like the other cables, and is very flexible. The RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also prone to shorting if bent over too small a radius. The only pertinent factor is the total capacity, impedance and "loss" are not important.

Actually the standard R/S audio patch cable will work ok in the INJ role as long as the Injection alignment is done with the R-4 and T-4X cabled together.

The C-Line can use the same cables, except there are two cables (INJ and CAR OSC) that need to be low capacity. The ANT lead should probably be RG-58 coax, but it's really not long enough to be significant.

73, Garey - K4OAH"

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5127. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 12:21:45 UTC
From: Richard Hanna
Topic: 5119 Message: 5127

When I acquired my used T4XC years ago, and Drake was still in the ham gear business, I called and talked to Bill Frost because I needed the interconnect cables. He advised that audio cables were OK for ALL the connections. I did make up a set of RG-59 cables for injection recently and an RG-58A/U cable for the antenna, but only because it made me feel better! The RG59 was a heck of a lot cheaper that RG62, and only a very small increase in the capacitance per foot.

Just my $.02!

Dick Hanna
K3VYY

--- On Thu, 3/17/11, Paul Kraemer <elespe@...> wrote:

From: Paul Kraemer <elespe@lisco.com>
Subject: Re: [DrakeRadio] "C" Line cables.
To: DrakeRadio@yahoogroups.com
Date: Thursday, March 17, 2011, 9:02 PM

Leaving no stone unturned I recently needed a set for a 4 line and just used

the red white yellow cables commonly supplied with every vcr ever sold.

Worked fine. I tested these by comparison to some RG58 of same length and

found them identical capacitance.

Anyway, not elegant but cheap. Like computer power cables they seem to

multiply in the junk box at night. Plus, I like how flexible they are

compared to others. And, I like the rubbery plugs.

YMMV. Just what works here.

Paul K0UYA

----- Original Message -----

From: "Don Cunningham" <donc@...>

To: <DrakeRadio@yahoogroups.com>

Sent: Thursday, March 17, 2011 6:26 PM

Subject: Re: [DrakeRadio] "C" Line cables.

> George,

> I personally don't like the RG-59 "injection cables". I think there are

> better choices for that for the C Line. Just one man's opinion, however.

> YMMV.

> 73,

> Don, WB5HAK

>

> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

5128. Re: [DrakeRadio] "C" Line cables.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 13:38:41 UTC
From: Garey Barrell
Topic: 5119 Message: 5128

YES!

You are free to use old twisted pair telephone line between units if you like.! The pair WILL work as long as you don't have too much RF floating around the shack, it takes only two wires to ring a doorbell.

However, reasonable quality shielded 'phono' or 'video' cables will give a little higher likelihood of successful operation. The 'video' (yellow) cable of the triple sets is even a little lower capacity and would be best for the INJ.

IF you intend to transceive with the pair, they should have the INJ trimmer adjustments made while cabled together with the cables you intend to use. Drake of course did not have this option available at manufacture as the units were sold separately and there was no practical way to ensure that pairs were kept together.

IF you intend to transceive, and want to do so at full power and maximum receiver sensitivity, with a minimum of peaking and re-peaking, then you need a decent (low capacity) INJ cable. As in just about all cases, I've found that Drake's engineers were more than competent. If you 'drill down' through something that seems un-necessary or doesn't make sense (to you), you find that there WAS a sound engineering decision behind it.

So... IF you don't intend to transceive, or don't mind having to retune each time you switch in or out of transceive, or just don't care about the best performance from your radios, knock yourself out! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5129. brand spanking new C-line ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 14:43:36 UTC
From: arsnf7z
Topic: 5129 Message: 5129

early in my flying career I flew antique biplanes. I always dreamed of landing somewhere off the beaten track, only to find some barn with a Stearman or Fleet biplane that had been forgotten about. like new, I make an offer and it would be mine. I suppose others might have similar thoughts, like finding a '57 Thunderbird in a garage, with only a 100 miles on the odometer. hams, like myself, might dream of finding a Drake C-line in someone's attic that had never been used. I have a beautiful C-line but luck was with me and I found that perfect R4C, T4XC, MS-4, AC-4 combo sitting in an attic. never used. well, apparently used once only to find that ham radio wasn't meant for them, so it was all boxed and forgotten about for thirty-five years. the owner has a terminal disease and everything in the attic was being sold.

the C-line is as if it just came off the assembly line, and as you might imagine, I am thrilled. manuals, receipts, cables everything is there. this all started from looking for a R4C PTO to replace the one that drifted far beyond specification. you know how that goes. one thing led to another, and I couldn't let it go when I stumbled upon such a deal. of course, I now have two beautiful C-lines. the R4C I've had for thirty-five years also, is souped up a bit and performs much better than the stock version. just adding a new product-detector and tweaking the alignment made a world of difference. still, it is so nice to feel that smooth PTO on the new units, and see just how blue the lamp-filters were right off the factory assembly line. these were one of the last to be built, and even have 3-prong AC cords with ground. pinch me!

I just need now to find a nice L4B and I'll be done (though I have said those words before).

73's

NF7Z, daniel

5130. R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 14:16:18 UTC
From: Elsewhere
Topic: 5130 Message: 5130

I have an R4B coming that has a bad antenna input coil. Does anyone have one they will sell.

73

Jim/W5JO

5131. FS: T4/R4 $400

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-18 18:24:10 UTC
From: Fernando
Topic: 5131 Message: 5131

<http://pages.sbcglobal.net/n2fq/DrakeSale.html>

Lower price

Fernando N2FQ

5132. buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-19 21:39:07 UTC
From: arsnf7z
Topic: 5132 Message: 5132

perhaps it is just me .. but is eBay and QTH.com always so wacky? I've had very good luck with QTH.com until I decided to buy a L4B. the search stretched out for months, and then I found the perfect offering. the small picture looked good enough, though let's be honest .. you can't tell much. so, I asked for a few more details. perhaps a photo and description of the interior. an assessment of the performance? do the 3-500Z's light up? any output? smoke on key-down?

I was told that the L4B was owned by a ham for 25 years and should be in good condition. well, that's a great mantra for the seller, as in 'thou will be perfect in every way', but to the seller .. it's a bit dubious, and so I asked once again for additional photos and assessments. once again, I was give the same out-of-focus photo of the the tuning knob with no additional descriptions or explanations. now maybe it is just me, but before I send someone a $1k, I think it wise to understand what it is I am buying. the seller apparently did not agree .. would not come forth with details because I suspect he didn't know. the amp was somewhere unavailable, or he was simply brokering it for someone else.

I really didn't think it was asking too much, to garner some sense of what I was buying. I guess this is the age of eBay, caveat-emptor, and it's a seller's market. I don't want to come off as jaded, as all my QTH.com interactions have been very positive and resulted in sales. however, I am concerned. is it really too much to give a potential buyer a fair representation of what they might be buying?

I was told it was owned by the same ham for 25 years. the amplifier was built in 1975, and is 36 years old. I don't care where it's been the last three decades, or if it resided in a 'no smoking' shack. egads .. it could be perfect, it could be a worthless pile. as the potential buyer .. humor me. throw me a bone .. don't tell me that there are a dozen other buyers and therefore you don't need to tell me anything further about the amp sitting on someone's table. somewhere ..

what do you think? is this a trend? I recently saw a Drake RV4C on QTH.com for something like $385. get out .. almost as ludicrous as the Heathkit DX-60 I saw for sale for $300. yeah, it has controlled-carrier AM and looks old. oh yeah, it's crystal controlled!

befuddled ...

NF7Z, daniel

5133. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-19 22:01:45 UTC
From: Joe
Topic: 5132 Message: 5133

When I went looking for my L-4B, I ran into the same type of 'elusiveness'. I then 'met' a guy in Las Vegas, who had one that hadn't been used for a number of years. He had decided to bring it back in service and had completely rebuilt the power supply with new diodes and caps. Then lost interest when he acquired a more modern amp. It went 'under the counter' and sat there until I expressed interest in purchasing one. He sent me at least 50 pics when I asked him to do so...we exchanged at least 20 emails about the amplifier and then finally spent substantial time on the telephone. We struck a deal for $1,000.00, which was higher than I had seen other L-4's, but I was very confident the price was worth it. A very good friend lives in Pahrump so I asked if he could take it up there for me....which he did, plus a surprise, a box of at least $500.00 worth of other L-4B parts and tubes..he had saved his take-outs after he had put in 2 new Eimac 3-500Z's. Said they worked, but wanted everything 'new' when he finished. I put them in and lit the box and they didn't even show a little blue, even at idle, which surprised the heck outa me. I didn't however, bring up the power.

When I got the amplifier it was very dusty, but after blowing it out, it was immaculate and works great.

Long story short...keep looking, you will find someone who will spend the time to let you get acquainted with the amp before you purchase..and you can be sure that person probably doesn't have anything to hide about the amp.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
Subject: [DrakeRadio] buying Drake ...

> perhaps it is just me .. but is eBay and QTH.com always so wacky? I've had
> very good luck with QTH.com until I decided to buy a L4B. the search
> stretched out for months, and then I found the perfect offering. the small
> picture looked good enough, though let's be honest .. you can't tell much.
> so, I asked for a few more details. perhaps a photo and description of the
> interior. an assessment of the performance? do the 3-500Z's light up? any
> output? smoke on key-down?

5134. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-19 22:19:06 UTC
From: Bob Macklin
Topic: 5132 Message: 5134

The problem is there a lot of people liquidating estates that don't know shit about this stuff. You should be able to tell from the initial listing or at least the first question.

I have been helping to liquidate a collection of antique model airplane engines. Another member of our club writes the descriptions and I do the photos and listings. We have had about 3 problems out of 1200 engines we have sold

A couple of years ago I bought a Drake T4X. The seller was a ham. He had a picture of a power meter on top of it showing full output. When I was testing it I found it had bad 120Hz hum. How about 100% 120Hz plate modulation? The electrolytics in the power supply no longer were! I had planned to put the upgrade kit in anyway.

You just have to be careful.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: arsnf7z
To: DrakeRadio@yahoogroups.com
Sent: Saturday, March 19, 2011 2:39 PM
Subject: [DrakeRadio] buying Drake ...

perhaps it is just me .. but is eBay and QTH.com always so wacky? I've had very good luck with QTH.com until I decided to buy a L4B. the search stretched out for months, and then I found the perfect offering. the small picture looked good enough, though let's be honest .. you can't tell much. so, I asked for a few more details. perhaps a photo and description of the interior. an assessment of the performance? do the 3-500Z's light up? any output? smoke on key-down?

I was told that the L4B was owned by a ham for 25 years and should be in good condition. well, that's a great mantra for the seller, as in 'thou will be perfect in every way', but to the seller .. it's a bit dubious, and so I asked once again for additional photos and assessments. once again, I was give the same out-of-focus photo of the the tuning knob with no additional descriptions or explanations. now maybe it is just me, but before I send someone a $1k, I think it wise to understand what it is I am buying. the seller apparently did not agree .. would not come forth with details because I suspect he didn't know. the amp was somewhere unavailable, or he was simply brokering it for someone else.

I really didn't think it was asking too much, to garner some sense of what I was buying. I guess this is the age of eBay, caveat-emptor, and it's a seller's market. I don't want to come off as jaded, as all my QTH.com interactions have been very positive and resulted in sales. however, I am concerned. is it really too much to give a potential buyer a fair representation of what they might be buying?

I was told it was owned by the same ham for 25 years. the amplifier was built in 1975, and is 36 years old. I don't care where it's been the last three decades, or if it resided in a 'no smoking' shack. egads .. it could be perfect, it could be a worthless pile. as the potential buyer .. humor me. throw me a bone .. don't tell me that there are a dozen other buyers and therefore you don't need to tell me anything further about the amp sitting on someone's table. somewhere ..

what do you think? is this a trend? I recently saw a Drake RV4C on QTH.com for something like $385. get out .. almost as ludicrous as the Heathkit DX-60 I saw for sale for $300. yeah, it has controlled-carrier AM and looks old. oh yeah, it's crystal controlled!

befuddled ...

NF7Z, daniel

[Non-text portions of this message have been removed]

5135. hams that do know ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-19 23:03:03 UTC
From: arsnf7z
Topic: 5135 Message: 5135

that's my real problem. hams that do know .. that should provide the details we ask for. it just seems odd to me. I am a guitar player. imagine that I wanted to buy a guitar off of eBay, and the seller simply told me it had six strings and had been in the family for thirty years. would'nt I ask, "send me photos, how does it play, does it still look like a Fender Stratocaster or has it morphed into a 'Grunge' nightmare with STP stickers and pictures of Kurt Cobain"? I mean, I don't mind a few Peace symbols (after all, I am a child of the sixties), and I can easily remove the STP stickers, but come on ... is it playable? can I output 600 watts on 40?

check out my Drake ham shack at www.doublereef.net

skeds?

NF7Z, daniel

5136. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-19 23:04:07 UTC
From: Jim Wilhite
Topic: 5132 Message: 5136

Stay with it. If they won't tell you enough information to satisfy you curiousity, the let it pass and look for another. The nice thing is time is on your side. Chances are if you press the seller you will get a story worthy of a best seller.   I don't know about you but $1000 + is a lot of money to me.

Jim/W5JO

_____
From: arsnf7z ars.nf7z@...

perhaps it is just me .. but is eBay and QTH.com always so wacky? I've had very good luck with QTH.com until I decided to buy a L4B. the search stretched out for months, and then I found the perfect offering. the small picture looked good enough, though let's be honest .. you can't tell much. so, I asked for a few more details. perhaps a photo and description of the interior. an assessment of the performance? do the 3-500Z's light up? any output? smoke on key-down?

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befuddled ...

NF7Z, daniel

[Non-text portions of this message have been removed]

5137. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 00:49:00 UTC
From: ALAN PHILLIPS
Topic: 5132 Message: 5137

You are very lucky to notice the "red flags" and to proceed with caution. Any honest buyer will supply pixs and information. I once saw a used L7 from a new ham radio store. I disregarded the red flags and it turned into a nightmare.

First he said he did not have a big box to ship it and would not be responsible for damage, so I shipped him a huge box.

Then he said that he would not sell it unless I sent him a "hold harmless " letter, signed and notarized. I did.
Then he wanted a cashiers check. I mailed it.
Then when a week went buy I callled the store and asked if it had shipped. He said well, I turned it on and it smoked, "you know these drakes do that..."
I figured that he wanted to sell it to a friend. I told him that they just don't smoke but he argued otherwise.
Finally, I had to persuade him to send me back my money or cashiers check.

Use your gut feeling, common sense or what ever. If it looks like a rat, smells like a rat its a rat. And this was from a store and not a private person.
73's al.

ps. I did buy a L4b from a local ham instead. He allowed me to open up everything with nothing to hide.
73. al.

From: Jim Wilhite <w5jpw@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, March 19, 2011 6:04:07 PM
Subject: Re: [DrakeRadio] buying Drake ...

Stay with it. If they won't tell you enough information to satisfy you curiousity, the let it pass and look for another. The nice thing is time is on your side. Chances are if you press the seller you will get a story worthy of a

best seller. I don't know about you but $1000 + is a lot of money to me.

Jim/W5JO

From: arsnf7z ars.nf7z@...

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the amp was somewhere unavailable, or he was simply brokering it for someone else.

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befuddled ...

NF7Z, daniel

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5138. Re: [DrakeRadio] hams that do know ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 02:43:26 UTC
From: Richard Knoppow
Topic: 5135 Message: 5138

----- Original Message -----
From: "arsnf7z" <ars.nf7z@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, March 19, 2011 4:03 PM
Subject: [DrakeRadio] hams that do know ...

> that's my real problem. hams that do know .. that should
> provide the details we ask for. it just seems odd to me. I
> am a guitar player. imagine that I wanted to buy a guitar
> off of eBay, and the seller simply told me it had six
> strings and had been in the family for thirty years.
> would'nt I ask, "send me photos, how does it play, does it
> still look like a Fender Stratocaster or has it morphed
> into a 'Grunge' nightmare with STP stickers and pictures
> of Kurt Cobain"? I mean, I don't mind a few Peace symbols
> (after all, I am a child of the sixties), and I can easily
> remove the STP stickers, but come on ... is it playable?
> can I output 600 watts on 40?
>
> check out my Drake ham shack at www.doublereef.net
>
> skeds?
>
> NF7Z, daniel

Only if the dial is at 11.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5139. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 07:49:57 UTC
From: Jim Shorney
Topic: 5132 Message: 5139

On Sat, 19 Mar 2011 21:39:07 -0000, arsnf7z wrote:

>.. it could be perfect, it could be a worthless pile. as the potential buyer .. humor me. throw me a bone .. don't tell me that there are a dozen other buyers and therefore you don't need to tell me anything further about the amp sitting on someone's table. somewhere ..

I agree with what others have posted. For that amount of money, the seller needs to make the sale. He needs to kiss your butt, not the other way around. If he has a dozen other buyers lined up, tell him to go for it.

Keep your ear to the ground, you'll find what you want eventually. I'll put this in perspective, it really didn't take me that long to find an L-4B from a local who just wanted to sell it to someone who would appreciate it, in good condition needing minor cleanup. It had been idle for an unknown number of years, and I was allowed to inspect it thoroughly before purchase (but was unable to power it up). The price? $450.00. The RF deck puts out an an impressive quantity of RF with the tubes that were in it. The PS was brought up slowly on 120V and worked fine. The Jones plug on the PS went up in flames when I hit it with 220 volts, but I would never have even thought of complaining to the seller.

Part two is the L-7 from an estate that had a dark tube (unsoldered filament pin) and needed EXTENSIVE cleanup. I've got a net of around $150 in it, but the actual purchase price wasn't much more than that.

Good things come to those who wait.

73

-Jim (years ago I traded an HT for a rusty but working NCL-2000)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5140. Re: [DrakeRadio] buying Drake ...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 07:58:13 UTC
From: Jim Shorney
Topic: 5132 Message: 5140

On Sat, 19 Mar 2011 15:19:06 -0700, Bob Macklin wrote:

>
>The problem is there a lot of people liquidating estates that don't know shit about this stuff. You should be able to tell from the initial listing or at least the first question.

<snip>

>A couple of years ago I bought a Drake T4X. The seller was a ham. He had a picture of a power meter on top of it showing full output. When I was testing it I found it had bad 120Hz hum. How about 100% 120Hz plate modulation? The electrolytics in the power supply no longer were! I had planned to put the upgrade kit in anyway.

Our club handles estates for the locals. I was recently asked to evaluate a
nice TR-3 they were selling. It had the same problem, and disclosure was made
to prospective buyers. It would be nice of more clubs did this.

73

-JIm (almost bought the TR-3 myself, but I have too many radios as it is)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5141. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 19:27:02 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5141

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5142. TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 21:44:36 UTC
From: William Houghton
Topic: 5142 Message: 5142

Hi Drake fans,

First let me appologize for asking something that was asked recently. I didn't save the emails on this subject and a couldn't find them in the messages at yahoo groups.

I'm bringing up a non-working TR-4 that I recently acquired. The receiver is working fairly well right now on all except the highest 10m position. That will be the last problem to solve.

When I switch to the transmit mode, the CW-X position, the output power immediately goes to about 100W+ with the XMIT GAIN control fully CCW. Adjusting the bias pot on the AC4 can reduce the plate current from about 500ma down to about 350ma. The weird thing is that when I try to measure the voltages on the 6JB6 pins with respect to ground touching the brass strip that connects pins 2 & 6 of all three tubes together with the positive DMM lead causes the output to drop to zero and the plate current to drop to the idle level. Adjusting the bias can with produce the 100ma idle current with the meter probe touching the brass strip.

Any ideas?

Thanks & 73, Bill, WA6NEQ

[Non-text portions of this message have been removed]

5143. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 21:55:32 UTC
From: Keith Evans
Topic: 5142 Message: 5143

Hi Bill,
I wonder, Have you checked you have a Xtal in that 10m switch position??
Just a thought, check something simple before you tear it apart.
73
Keith G3VKW

----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 20, 2011 9:44 PM
Subject: [DrakeRadio] TR-4 transmit problem

Hi Drake fans,

First let me appologize for asking something that was asked recently. I didn't save the emails on this subject and a couldn't find them in the messages at yahoo groups.

I'm bringing up a non-working TR-4 that I recently acquired. The receiver is working fairly well right now on all except the highest 10m position. That will be the last problem to solve.

When I switch to the transmit mode, the CW-X position, the output power immediately goes to about 100W+ with the XMIT GAIN control fully CCW. Adjusting the bias pot on the AC4 can reduce the plate current from about 500ma down to about 350ma. The weird thing is that when I try to measure the voltages on the 6JB6 pins with respect to ground touching the brass strip that connects pins 2 & 6 of all three tubes together with the positive DMM lead causes the output to drop to zero and the plate current to drop to the idle level. Adjusting the bias can with produce the 100ma idle current with the meter probe touching the brass strip.

Any ideas?

Thanks & 73, Bill, WA6NEQ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5144. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:12:35 UTC
From: William Houghton
Topic: 5142 Message: 5144

Keith,

Yes, there are xtals in all of the positions. I haven't tried the alignment procedure yet. I never seem to hear anything on 10m on any of my radios which is why I'm leaving that for last.

Thanks for the input,

Bill

From: Keith Evans <g3vkw@btconnect.com>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 20, 2011 2:55:32 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

Hi Bill,
I wonder, Have you checked you have a Xtal in that 10m switch position??
Just a thought, check something simple before you tear it apart.
73
Keith G3VKW

----- Original Message -----
From: William Houghton
To: DrakeRadio@...m
Sent: Sunday, March 20, 2011 9:44 PM
Subject: [DrakeRadio] TR-4 transmit problem

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6 of all three tubes together with the positive DMM lead causes the output to drop to zero and the plate current to drop to the idle level. Adjusting the bias

can with produce the 100ma idle current with the meter probe touching the brass strip.

Any ideas?

Thanks & 73, Bill, WA6NEQ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5145. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:18:56 UTC
From: Garey Barrell
Topic: 5142 Message: 5145

Bill -

If touching your meter probe to the Grid bus of the PA stops the output,
the stage is oscillating.

If there IS a crystal in the third 10M band socket, remove it and
exchange with the one in either of the other 10M positions. The crystal
may be defective.

If the crystal is missing.... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Hi Drake fans,
>
> First let me appologize for asking something that was asked recently. I didn't
> save the emails on this subject and a couldn't find them in the messages at
> yahoo groups.
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> I'm bringing up a non-working TR-4 that I recently acquired. The receiver is
> working fairly well right now on all except the highest 10m position. That will
> be the last problem to solve.
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> When I switch to the transmit mode, the CW-X position, the output power
> immediately goes to about 100W+ with the XMIT GAIN control fully CCW. Adjusting
> the bias pot on the AC4 can reduce the plate current from about 500ma down to
> about 350ma. The weird thing is that when I try to measure the voltages on the
> 6JB6 pins with respect to ground touching the brass strip that connects pins 2&
> 6 of all three tubes together with the positive DMM lead causes the output to
> drop to zero and the plate current to drop to the idle level. Adjusting the bias
> can with produce the 100ma idle current with the meter probe touching the brass
> strip.
>
> Any ideas?
>
> Thanks& 73, Bill, WA6NEQ
>
>
>

5146. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:20:40 UTC
From: Garey Barrell
Topic: 5142 Message: 5146

Bill -

You should be able to hear the calibrator signal on 10M even if the band
is dead!

Swap those two crystals and see if the top range then works.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Keith,
>
> Yes, there are xtals in all of the positions. I haven't tried the alignment
> procedure yet. I never seem to hear anything on 10m on any of my radios which is
> why I'm leaving that for last.
>
> Thanks for the input,
>
> Bill
>
>
>
>
> _____
> From: Keith Evans<g3vkw@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, March 20, 2011 2:55:32 PM
> Subject: Re: [DrakeRadio] TR-4 transmit problem
>
>
> Hi Bill,
> I wonder, Have you checked you have a Xtal in that 10m switch position??
> Just a thought, check something simple before you tear it apart.
> 73
> Keith G3VKW
>
> ----- Original Message -----
> From: William Houghton
> To: DrakeRadio@yahoogroups.com
> Sent: Sunday, March 20, 2011 9:44 PM
> Subject: [DrakeRadio] TR-4 transmit problem

>
> Hi Drake fans,
>
> First let me appologize for asking something that was asked recently. I didn't
> save the emails on this subject and a couldn't find them in the messages at
> yahoo groups.
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> drop to zero and the plate current to drop to the idle level. Adjusting the bias
>
> can with produce the 100ma idle current with the meter probe touching the brass
> strip.
>
> Any ideas?
>
> Thanks& 73, Bill, WA6NEQ
>
>

5147. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:23:36 UTC
From: Bob Macklin
Topic: 5142 Message: 5147

Don't waste your time on it for the time being.

10M SSB activity is between 20.0 and 29.0. The area above 29.0 is AM and FM.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 20, 2011 3:12 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

Keith,

Yes, there are xtals in all of the positions. I haven't tried the alignment procedure yet. I never seem to hear anything on 10m on any of my radios which is why I'm leaving that for last.

Thanks for the input,

Bill

From: Keith Evans <g3vkw@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 20, 2011 2:55:32 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

Hi Bill,
I wonder, Have you checked you have a Xtal in that 10m switch position??
Just a thought, check something simple before you tear it apart.
73
Keith G3VKW

----- Original Message -----
From: William Houghton
To: DrakeRadio@yahoogroups.com
Sent: Sunday, March 20, 2011 9:44 PM
Subject: [DrakeRadio] TR-4 transmit problem

Hi Drake fans,

First let me appologize for asking something that was asked recently. I didn't save the emails on this subject and a couldn't find them in the messages at yahoo groups.

I'm bringing up a non-working TR-4 that I recently acquired. The receiver is working fairly well right now on all except the highest 10m position. That will be the last problem to solve.

When I switch to the transmit mode, the CW-X position, the output power immediately goes to about 100W+ with the XMIT GAIN control fully CCW. Adjusting the bias pot on the AC4 can reduce the plate current from about 500ma down to about 350ma. The weird thing is that when I try to measure the voltages on the 6JB6 pins with respect to ground touching the brass strip that connects pins 2 &

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can with produce the 100ma idle current with the meter probe touching the brass strip.

Any ideas?

Thanks & 73, Bill, WA6NEQ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

5148. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:39:51 UTC
From: Jim Shorney
Topic: 5142 Message: 5148

On Sun, 20 Mar 2011 15:12:35 -0700 (PDT), William Houghton wrote:

>I never seem to hear anything on 10m on any of my radios which is
>why I'm leaving that for last.

If you are anywhere near computers, tune around 28.622 and you should hear a
bunch of spurs.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5149. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:50:46 UTC
From: William Houghton
Topic: 5142 Message: 5149

All,

Thanks for the input.

The transmit problem occurs on more than one band. I specifically remember checking it on 80, 40, and 20. I don't recall if I tried it on 10m or 15m.

The receive problem on the top of 10m. In CAL position I don't hear a strong cal signal every 100KHz. Instead I hear a weak tone throughout the PTO tuning range. I think I'll try Garey's suggestion about swapping the 10m xtals to get a quick sense of the problem. Beyond that, I'll deal with it after I fix the transmitter problem.

73,

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 20, 2011 3:20:40 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

Bill -

You should be able to hear the calibrator signal on 10M even if the band is dead!

Swap those two crystals and see if the top range then works.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
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> Keith G3VKW
>
> ----- Original Message -----
> From: William Houghton
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> Sent: Sunday, March 20, 2011 9:44 PM
> Subject: [DrakeRadio] TR-4 transmit problem
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> 6JB6 pins with respect to ground touching the brass strip that connects pins
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> 6 of all three tubes together with the positive DMM lead causes the output to
> drop to zero and the plate current to drop to the idle level. Adjusting the
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brass
> strip.
>

> Any ideas?
>
> Thanks& 73, Bill, WA6NEQ
>
>

[Non-text portions of this message have been removed]

5150. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:52:43 UTC
From: William Houghton
Topic: 5142 Message: 5150

Garey,

An oscillating stage... that should be fun to figure out ! :(

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Sun, March 20, 2011 3:18:56 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

Bill -

If touching your meter probe to the Grid bus of the PA stops the output,
the stage is oscillating.

If there IS a crystal in the third 10M band socket, remove it and
exchange with the one in either of the other 10M positions. The crystal
may be defective.

If the crystal is missing.... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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William Houghton wrote:
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> 6 of all three tubes together with the positive DMM lead causes the output to
> drop to zero and the plate current to drop to the idle level. Adjusting the
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> strip.
>
> Any ideas?
>
> Thanks& 73, Bill, WA6NEQ
>
>
>

[Non-text portions of this message have been removed]

5151. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:54:15 UTC
From: Jim Shorney
Topic: 5142 Message: 5151

On Sun, 20 Mar 2011 15:23:36 -0700, Bob Macklin wrote:

>10M SSB activity is between 20.0 and 29.0. The area above 29.0 is AM and FM

I think you mean 28.0?

Actually, the bulk of SSB activity is between 28.3 and 28.5 (the novice/tech subband), with 28.3 being the bottom of the voice band. 28.400 has become the defacto calling frequency. As sunspots pick up, activity can expand above 28.5. 28.0-28.3 is CW, beacons, and digital modes. The unofficial AM subband is roughly 28.96-29.41, to accomodate CB rigs moved up 2 MHz. 29.3-29.51 is the satellite subband. FM is 29.520-29.690. Anywhere 28.3-29.7 is fair game for SSB according to the FCC rules, but most folks adhere to the bandplans.

Canada's bandplan is a little different.

http://en.wikipedia.org/wiki/10-meter_band

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5152. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:54:53 UTC
From: Jim Shorney
Topic: 5142 Message: 5152

On Sun, 20 Mar 2011 15:52:43 -0700 (PDT), William Houghton wrote:

>An oscillating stage... that should be fun to figure out ! :(

Could just be someone changed the finals and didn't neutralize them...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5153. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 22:59:00 UTC
From: William Houghton
Topic: 5142 Message: 5153

I thought about tweaking the neutralization cap a bit... at this point it can't hurt.

Bill

From: Jim Shorney <jshorney@...>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Sun, March 20, 2011 3:54:53 PM
Subject: Re: [DrakeRadio] TR-4 transmit problem

On Sun, 20 Mar 2011 15:52:43 -0700 (PDT), William Houghton wrote:

>An oscillating stage... that should be fun to figure out ! :(

Could just be someone changed the finals and didn't neutralize them...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A,
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5154. Re: [DrakeRadio] TR-4 transmit problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-20 23:02:37 UTC
From: Garey Barrell
Topic: 5142 Message: 5154

Possible, especially if the finals are 'mis-matched' brands or condition.

Do you have the PLATE and LOAD controls at '0'? Keying the transmitter
with no drive to the PA, (as in missing or defective crystals,) can make
it sing, particularly if the TUNE and LOAD are up from '0'.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Sun, 20 Mar 2011 15:52:43 -0700 (PDT), William Houghton wrote:
>
>
>> An oscillating stage... that should be fun to figure out ! :(
>>
>
> Could just be someone changed the finals and didn't neutralize them...
>
> 73
>
> -Jim
>
>
>

5155. FS: Drake RCC-4 Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-21 20:49:17 UTC
From: Garey Barrell
Topic: 5155 Message: 5155

I have an 'extra' RCC-4 Crystal Calibrator. N0, I did NOT 'pull it from my perfectly working R-4C'.

Apply 13.6 VDC and ground, get 25 kHz markers up through 30 MHz.

$50 shipped US.

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5156. Re: [DrakeRadio] FS: Drake RCC-4 Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-21 22:18:31 UTC
From: Don Cunningham
Topic: 5155 Message: 5156

Garey,
Do you have a picture of the RCC-4 so I can see if I have one in either R4C?? I thought that was standard, so had not looked to see if I had it. Sounds like one should have at least one, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5157. Re: [DrakeRadio] FS: Drake RCC-4 Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-21 22:40:04 UTC
From: Garey Barrell
Topic: 5155 Message: 5157

Don -

Yeah, it's standard. Sits on top on the right side just in front of the
Power Transformer. Has the big 100 kHz crystal sticking up! You can
see it in the top chassis photo in the manual.

I figure somebody might have an eBay special where all the filters,
tubes and anything else that 'unplugs' has been removed! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
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> 73,
> Don, WB5HAK
>
>
>

5158. Re: [DrakeRadio] FS: Drake RCC-4 Calibrator

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-21 23:01:02 UTC
From: Don Cunningham
Topic: 5155 Message: 5158

Well, I thought it was, but you are CORRECT, anything that CAN be removed, is. Glad I don't operate that way, and most of my friends don't either, hi.
73,
Don

[Non-text portions of this message have been removed]

5159. B-line for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-22 18:25:31 UTC
From: yash@aol.com
Topic: 5159 Message: 5159

Have A very nice Drake B-line for sale, was just gone COMPLETELY thru
by Wa8saj, The B-line has no operational issues. The cosmetics are a easy 9/10.A coupla of tiny nicks, chassis very nice,paint,origional.
the line consists of the folowing:
1. R-4B,AM,CW and ssb filters.All crystals including WARC and 10 meters.no 30
2. T-4XB, full out.
3. AC-4 power supply, complete rebuild using "Heathkit shop" kit& boards
4. Speaker- MS-4.
5. complete set of NEW interconnect cables.
6. Origional Drake manuals
7. mic adaptor with 1/8" jacks for PTT and MIC input.
Will all be properly packed and double boxed for safe shipment,Fedex insured.
Asking 750.00 split shipping.
can do Pay pal + or usps MO.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5160. Mic for TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-26 10:44:38 UTC
From: ko1h
Topic: 5160 Message: 5160

HI all. I am looking to complete my tr7 station with a Drake 7077 mic if anyone has one they would like to part with I am seriously looking.

Thanks de John ko1h

[Non-text portions of this message have been removed]

5161. WTB: Magnum 6 or DX Eng Processor

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 03:40:24 UTC
From: Rich Hallman - N7TR
Topic: 5161 Message: 5161

Looking for either a Magnum Six or DX Engineering Processor for a T4XC.

Thanks..

Rich N7TR

ex KI3V, N3AMK, WB3JOV

www.n7tr.com

Telnet: dxc.n7tr.com N7TR DXCluster

[Non-text portions of this message have been removed]

5162. Re: WTB: xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 13:32:59 UTC
From: bobsalmon@juno.com
Topic: 5162 Message: 5162

Hi. Does anyone have or know where to buy a 35.5 Mhz xtal for a TR4?
Could use some help, thank you.
Bob N3JQD

_____
Groupon.com Official Site
1 huge daily deal on the best stuff to do in your city. Try it today!
http://thirdpartyoffers.juno.com/TGL3141/4d8f3ce84ae6539bbfdst05vuc

5163. RE: [DrakeRadio] Re: WTB: xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 14:48:00 UTC
From: Rich Hallman - N7TR
Topic: 5162 Message: 5163

Try here...

http://www.af4k.com/hc6u_crystals.htm

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of bobsalmon@...
Sent: Sunday, March 27, 2011 6:33 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: WTB: xtal

Hi. Does anyone have or know where to buy a 35.5 Mhz xtal for a TR4?
Could use some help, thank you.
Bob N3JQD

_____
Groupon.com Official Site
1 huge daily deal on the best stuff to do in your city. Try it today!
http://thirdpartyoffers.juno.com/TGL3141/4d8f3ce84ae6539bbfdst05vuc

---

Yahoo! Groups Links

5164. Re: [DrakeRadio] Re: WTB: xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 15:19:22 UTC
From: Garey Barrell
Topic: 5162 Message: 5164

Bob -

International Crystal Mfg

www.ICMFG.com

1-800-725-1426

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

bobsalmon@... wrote:
> Hi. Does anyone have or know where to buy a 35.5 Mhz xtal for a TR4?
> Could use some help, thank you.
> Bob N3JQD
>
>
>

5165. Drake R4C Noise Blanker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 17:44:50 UTC
From: xyz
Topic: 5165 Message: 5165

I have a Drake R4C and when I turn the NB or the Crystal calibrator the meter gets peg to the right and there is no audio.
Has anyone come up with this problem?
Any possible solutions to the problems?
Thanks! AE4TO

5166. Re: [DrakeRadio] Drake R4C Noise Blanker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-27 17:54:28 UTC
From: Garey Barrell
Topic: 5165 Message: 5166

You need a shorted plug in the MUTE jack on the rear panel.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

xyz wrote:
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> Has anyone come up with this problem?
> Any possible solutions to the problems?
> Thanks! AE4TO
>
>
>

5167. Drake TR4Cw S-meter suddenly less sensitive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 05:43:03 UTC
From: billykatzz
Topic: 5167 Message: 5167

Folks, maybe it's me, but it seems like as of yesterday the S-meter on my TR-4Cw just doesn't seem to be properly responding to incoming signals. Strong stations that audibly sound S9 or higher barely make the meter move. However, when I put the rig in the calibrate mode, then the needle has a HUGE swing, but of course that's normal.

It just came on suddenly. I haven't changed anything on the rig, but I did change out my MN4 for a MN2000 I picked up a few months ago. Could that be the cause? Anybody have any idea what's going on?

Bill in Pasadena, NK6Q

5168. Re: [DrakeRadio] Drake TR4Cw S-meter suddenly less sensitive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 05:48:25 UTC
From: LEE BAHR
Topic: 5167 Message: 5168

Slide switch on the side in correct position? (You didn't say if you tried transmitting and if this works ok). Internal relay clean? Internal lamp fuse ok? Check the slide switch first as you could have bumped it.

Lee, w0vt

----- Original Message -----
From: billykatzz
To: DrakeRadio@yahoogroups.com
Sent: Monday, March 28, 2011 12:43 AM
Subject: [DrakeRadio] Drake TR4Cw S-meter suddenly less sensitive

Folks, maybe it's me, but it seems like as of yesterday the S-meter on my TR-4Cw just doesn't seem to be properly responding to incoming signals. Strong stations that audibly sound S9 or higher barely make the meter move. However, when I put the rig in the calibrate mode, then the needle has a HUGE swing, but of course that's normal.

It just came on suddenly. I haven't changed anything on the rig, but I did change out my MN4 for a MN2000 I picked up a few months ago. Could that be the cause? Anybody have any idea what's going on?

Bill in Pasadena, NK6Q

[Non-text portions of this message have been removed]

5169. Re: Drake TR4Cw S-meter suddenly less sensitive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 06:01:41 UTC
From: billykatzz
Topic: 5167 Message: 5169

Lee:

Bingo, you nailed it. Oops, my bad. Last night when I was sliding the MN2000 into place it's cabinet pushed the transceiver's side switch from TCVR to RCVR.

After posting my dilema, I figured maybe something in the MN2000 was affecting the incoming signal, so I disconnected it and pulled it out. That's when I saw the side switch was in the wrong position.

Boy, do I feel stupid.

Bill in Pasadena, NK6Q

--- In DrakeRadio@yahoogroups.com, "LEE BAHR" <pulsarxp@...> wrote:
>
> Slide switch on the side in correct position? (You didn't say if you tried transmitting and if this works ok). Internal relay clean? Internal lamp fuse ok? Check the slide switch first as you could have bumped it.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: billykatzz
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, March 28, 2011 12:43 AM
> Subject: [DrakeRadio] Drake TR4Cw S-meter suddenly less sensitive
>
>
>
> Folks, maybe it's me, but it seems like as of yesterday the S-meter on my TR-4Cw just doesn't seem to be properly responding to incoming signals. Strong stations that audibly sound S9 or higher barely make the meter move. However, when I put the rig in the calibrate mode, then the needle has a HUGE swing, but of course that's normal.
>
> It just came on suddenly. I haven't changed anything on the rig, but I did change out my MN4 for a MN2000 I picked up a few months ago. Could that be the cause? Anybody have any idea what's going on?
>
> Bill in Pasadena, NK6Q
>
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> [Non-text portions of this message have been removed]

>

5170. Re: [DrakeRadio] Re: Drake TR4Cw S-meter suddenly less sensitive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 06:49:09 UTC
From: LEE BAHR
Topic: 5167 Message: 5170

Glad it was an easy fix.

Lee, w0vt

Lee:

Bingo, you nailed it. Oops, my bad. Last night when I was sliding the MN2000 into place it's cabinet pushed the transceiver's side switch from TCVR to RCVR.

After posting my dilema, I figured maybe something in the MN2000 was affecting the incoming signal, so I disconnected it and pulled it out. That's when I saw the side switch was in the wrong position.

Boy, do I feel stupid.

Bill in Pasadena, NK6Q

--- In DrakeRadio@yahoogroups.com, "LEE BAHR" <pulsarxp@...> wrote:
>
> Slide switch on the side in correct position? (You didn't say if you tried transmitting and if this works ok). Internal relay clean? Internal lamp fuse ok? Check the slide switch first as you could have bumped it.
>
> Lee, w0vt
>
>
>

[Non-text portions of this message have been removed]

5171. The Slide switch on the TR-4s

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 12:45:31 UTC
From: Kris Merschrod
Topic: 5167 Message: 5171

I often wonder how many other hams use the slide switch with a RCVR or mute for another purpose. My R4-C /TR-4Cw combination is a pleasure b/c the quality of the receive is better and more controlable. But, this set up is basically operating "split" so having to reach back there from time to time to make sure that the TR is on frequency while warming up is bothersome. If only it were "up front" some where. The R4-C has an aux ant jack so that the split is also between a RCV and XMIT ants. It is a nice set up.

How do others set up this arrangement?

Kris M2KM

Merschrod
123 Warren Road
Ithaca, NY 14850
www.merschrod.net
----- Original Message -----
From: billykatzz
To: DrakeRadio@yahoogroups.com
Sent: Monday, March 28, 2011 2:01 AM
Subject: [DrakeRadio] Re: Drake TR4Cw S-meter suddenly less sensitive

Lee:

Bingo, you nailed it. Oops, my bad. Last night when I was sliding the MN2000 into place it's cabinet pushed the transceiver's side switch from TCVR to RCVR.

After posting my dilema, I figured maybe something in the MN2000 was affecting the incoming signal, so I disconnected it and pulled it out. That's when I saw the side switch was in the wrong position.

Boy, do I feel stupid.

Bill in Pasadena, NK6Q

--- In DrakeRadio@yahoogroups.com, "LEE BAHR" <pulsarxp@...> wrote:
>
> Slide switch on the side in correct position? (You didn't say if you tried transmitting and if this works ok). Internal relay clean? Internal lamp fuse ok? Check the slide switch first as you could have bumped it.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: billykatzz
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, March 28, 2011 12:43 AM

> Subject: [DrakeRadio] Drake TR4Cw S-meter suddenly less sensitive
>
>
>
> Folks, maybe it's me, but it seems like as of yesterday the S-meter on my TR-4Cw just doesn't seem to be properly responding to incoming signals. Strong stations that audibly sound S9 or higher barely make the meter move. However, when I put the rig in the calibrate mode, then the needle has a HUGE swing, but of course that's normal.
>
> It just came on suddenly. I haven't changed anything on the rig, but I did change out my MN4 for a MN2000 I picked up a few months ago. Could that be the cause? Anybody have any idea what's going on?
>
> Bill in Pasadena, NK6Q
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5172. Re: [DrakeRadio] The Slide switch on the TR-4s

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 13:25:03 UTC
From: Christmaspeter
Topic: 5167 Message: 5172

I use my tr-4c with my spr-4. It works but the switch location is bothersome. I need to look at the schematic to see if I can use the NB switch instead.
Cheers
Doc
W2MFT

Sent from my iPod

On Mar 28, 2011, at 8:45, "Kris Merschrod" <kris@...> wrote:

> I often wonder how many other hams use the slide switch with a RCVR or mute for another purpose. My R4-C /TR-4Cw combination is a pleasure b/c the quality of the receive is better and more controlable. But, this set up is basically operating "split" so having to reach back there from time to time to make sure that the TR is on frequency while warming up is bothersome. If only it were "up front" some where. The R4-C has an aux ant jack so that the split is also between a RCV and XMIT ants. It is a nice set up.
>
> How do others set up this arrangement?
>
> Kris M2KM
>
>
> Merschrod
> 123 Warren Road
> Ithaca, NY 14850
> www.merschrod.net
> ----- Original Message -----
> From: billykatzz
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, March 28, 2011 2:01 AM
> Subject: [DrakeRadio] Re: Drake TR4Cw S-meter suddenly less sensitive
>
> Lee:
>
> Bingo, you nailed it. Oops, my bad. Last night when I was sliding the MN2000 into place it's cabinet pushed the transceiver's side switch from TCVR to RCVR.
>
> After posting my dilema, I figured maybe something in the MN2000 was affecting the incoming signal, so I disconnected it and pulled it out. That's when I saw the side switch was in the wrong position.
>
> Boy, do I feel stupid.
>
> Bill in Pasadena, NK6Q
>
> --- In DrakeRadio@yahoogroups.com, "LEE BAHR" <pulsarxp@...> wrote:

> >
> > Slide switch on the side in correct position? (You didn't say if you tried transmitting and if this works ok). Internal relay clean? Internal lamp fuse ok? Check the slide switch first as you could have bumped it.
> >
> > Lee, w0vt
> >
> >
> > ----- Original Message -----
> > From: billykatzz
> > To: DrakeRadio@yahoogroups.com
> > Sent: Monday, March 28, 2011 12:43 AM
> > Subject: [DrakeRadio] Drake TR4Cw S-meter suddenly less sensitive
> >
> >
> >
> > Folks, maybe it's me, but it seems like as of yesterday the S-meter on my TR-4Cw just doesn't seem to be properly responding to incoming signals. Strong stations that audibly sound S9 or higher barely make the meter move. However, when I put the rig in the calibrate mode, then the needle has a HUGE swing, but of course that's normal.
> >
> > It just came on suddenly. I haven't changed anything on the rig, but I did change out my MN4 for a MN2000 I picked up a few months ago. Could that be the cause? Anybody have any idea what's going on?
> >
> > Bill in Pasadena, NK6Q
> >
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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5173. looking for a receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 18:00:54 UTC
From: yash@aol.com
Topic: 5173 Message: 5173

[Non-text portions of this message have been removed]

5174. looking for receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 18:03:07 UTC
From: yash@aol.com
Topic: 5174 Message: 5174

Looking for a R-4a or R-4B receiver. Needs to be operational,and not DOA. Cosmetics not important,cabinet, chassis copper,can live with reasonable condition. Please let me know what you have. Also interested in a t4x most anything. Have supply.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5175. Re: [DrakeRadio] looking for receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 18:57:25 UTC
From: Paul Kraemer
Topic: 5174 Message: 5175

Dale
R4 and T4X
Condition good to very good
I have had them since they were almost new
R4 recently gone thru. T4 partially done. The can lytic has been replaced to correct a malfunction
Used as recently as a few months ago when they were replaced by C line
$300 the pair plus shipping cost. Prefer to keep together as pair.
Paul K0UYA
----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 28, 2011 1:03 PM
Subject: [DrakeRadio] looking for receiver

>
>
> Looking for a R-4a or R-4B receiver. Needs to be operational,and not
> DOA. Cosmetics not important,cabinet, chassis copper,can live with
> reasonable condition. Please let me know what you have. Also interested in
> a t4x most anything. Have supply.
> thanks
> dale wt4t
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5176. Re: [DrakeRadio] looking for receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-03-28 19:29:28 UTC
From: yash@aol.com
Topic: 5174 Message: 5176

Paul
the r4/tx4 include the ac-4? sounds like what Iam looking for. how do you want payment? can do any method including pay pal. would buy the twins,don't want to split them either. the transmitter is a t4x not a t-4.?
thanks
dale wt4t

-----Original Message-----
From: Paul Kraemer <elespe@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, Mar 28, 2011 2:57 pm
Subject: Re: [DrakeRadio] looking for receiver

Dale
R4 and T4X
Condition good to very good
I have had them since they were almost new
R4 recently gone thru. T4 partially done. The can lytic has been replaced to correct a malfunction
Used as recently as a few months ago when they were replaced by C line
$300 the pair plus shipping cost. Prefer to keep together as pair.
Paul K0UYA
----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, March 28, 2011 1:03 PM
Subject: [DrakeRadio] looking for receiver

>
>
> Looking for a R-4a or R-4B receiver. Needs to be operational,and not
> DOA. Cosmetics not important,cabinet, chassis copper,can live with
> reasonable condition. Please let me know what you have. Also interested in
> a t4x most anything. Have supply.
> thanks
> dale wt4t
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> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

5177. need a AC-4 supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-03 20:50:32 UTC
From: yash@aol.com
Topic: 5177 Message: 5177

Looking for a AC-4 supply,will consider all, as long as the transformer is good. Plan to rebuild with the heathkit store kit.
thanks
dale wt4t

please contact me off line yash@...

[Non-text portions of this message have been removed]

5178. Color?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-03 23:58:06 UTC
From: fredwegener
Topic: 5178 Message: 5178

Is the cabinet finIsh On the TR-4 gloss black, or more of a satin finish? I suspect mine has been repainted.

Fred AC5TF

5179. Re: [DrakeRadio] Color?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-04 00:50:36 UTC
From: Paul Kraemer
Topic: 5178 Message: 5179

Fred
It is a satin black unless it has been waxed and polished extensively or repainted
Some 4 line gear I have (all original) is smooth and some is spatter but all are satin
Krylon 1613 is generally considered the exact match.
Paul K0UYA
----- Original Message -----
From: "fredwegener" <ac5tf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, April 03, 2011 6:58 PM
Subject: [DrakeRadio] Color?

> Is the cabinet finIsh On the TR-4 gloss black, or more of a satin finish?
> I suspect mine has been repainted.
>
> Fred AC5TF
>
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>
> Yahoo! Groups Links
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5180. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-04 07:02:46 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5180

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5181. Which 2-B schematic?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-05 11:23:24 UTC
From: dean_k5dh
Topic: 5181 Message: 5181

There are three different Drake 2-B receiver schematics out there. How do I tell which one's right for a particular unit? Serial number?

73,
Dean K5DH

5182. Re: [DrakeRadio] Which 2-B schematic?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-05 15:21:42 UTC
From: Garey Barrell
Topic: 5181 Message: 5182

Dean -

Yes, each schematic has a 'serial number'. The three schematics are

420612001 - 4/20/61, for s/n 2001 to 4499.

124614500 - 12/4/61, for s/n 4500 to 6289.

531626290 - 5/31/62, for s/n 6290 and up.

Clean _clear_ scans of all three versions are on my CD for the 2-B, plus
a 'Revised and corrected' version of 420612001.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dean_k5dh wrote:
> There are three different Drake 2-B receiver schematics out there. How do I tell which one's right for a particular unit? Serial number?
>
> 73,
> Dean K5DH
>
>
>

5183. Re: Which 2-B schematic?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-05 16:01:13 UTC
From: querencias
Topic: 5181 Message: 5183

And I have to add that these CDs are worth their weight in Gold. Absolutely impeccably done. They make it easy to maintain the Drake Gear.

Thanks for putting them together, Gary.

best of luck, Grant

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Dean -
>
> Yes, each schematic has a 'serial number'. The three schematics are
>
> 420612001 - 4/20/61, for s/n 2001 to 4499.
>
> 124614500 - 12/4/61, for s/n 4500 to 6289.
>
> 531626290 - 5/31/62, for s/n 6290 and up.
>
> Clean _clear_ scans of all three versions are on my CD for the 2-B, plus
> a 'Revised and corrected' version of 420612001.
>
>

5184. Re: Color?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-06 20:05:35 UTC
From: fredwegener
Topic: 5178 Message: 5184

Thanks Paul. That's good information!

Fred AC5TF

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> Fred
> It is a satin black unless it has been waxed and polished extensively or
> repainted
> Some 4 line gear I have (all original) is smooth and some is spatter but all
> are satin
> Krylon 1613 is generally considered the exact match.
> Paul K0UYA
> ----- Original Message -----
> From: "fredwegener" <ac5tf@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Sunday, April 03, 2011 6:58 PM
> Subject: [DrakeRadio] Color?
>
>
> > Is the cabinet finIsh On the TR-4 gloss black, or more of a satin finish?
> > I suspect mine has been repainted.
> >
> > Fred AC5TF
> >
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5185. Re: [DrakeRadio] Re: Color?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-06 23:15:41 UTC
From: Paul Kraemer
Topic: 5178 Message: 5185

Welcome Fred
It was on an old "official looking" Drake radio site but can't find that one anymore.
Having used lots of #1613 I can personally add if it isn't perfect it is very close.
Krylon has changed marketing to now label things by name rather than number although a few specialty internet stores still come up with #1613
The others cross it to Krylon Satin Black
I can't tell a difference and I'm a bit of a critic
You make it spatter on the final coat by enlarging the spray hole
Paul
----- Original Message -----
From: "fredwegener" <ac5tf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, April 06, 2011 3:05 PM
Subject: [DrakeRadio] Re: Color?

> Thanks Paul. That's good information!
>
> Fred AC5TF
>
> --- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>>
>> Fred
>> It is a satin black unless it has been waxed and polished extensively or
>> repainted
>> Some 4 line gear I have (all original) is smooth and some is spatter but
>> all
>> are satin
>> Krylon 1613 is generally considered the exact match.
>> Paul K0UYA
>> ----- Original Message -----
>> From: "fredwegener" <ac5tf@...>
>> To: <DrakeRadio@yahoogroups.com>
>> Sent: Sunday, April 03, 2011 6:58 PM
>> Subject: [DrakeRadio] Color?
>>
>>
>> > Is the cabinet finIsh On the TR-4 gloss black, or more of a satin
>> > finish?
>> > I suspect mine has been repainted.
>> >
>> > Fred AC5TF
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5186. Re: Color? (and general painting tip)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-07 18:21:55 UTC
From: fredwegener
Topic: 5178 Message: 5186

Thanks again, Paul. I'll give it a try a bit later this year. Right now I'm doing some Heathkit restoration and have come across a pretty incredible tool in the paint department. It may be common knowledge, I don't know, but there is a company called Preval that makes an aerosol spray system that can atomize and fine-spray virtually anything, but especially paint of your flavor choice! The system is available online, but may also be found at the local Sherwin Williams paint store and is dirt cheap (as in less than $10)! Using high-grade, computer color matched acrylics, I have just sprayed an SB-102, HW-100 and SB-600. The results are beautiful. This opens up a whole new realm of possibilities for me!

Regards, Fred AC5TF

5187. Re: [DrakeRadio] Re: Color? (and general painting tip)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-07 18:24:35 UTC
From: jerrywk1@comcast.net
Topic: 5178 Message: 5187

Fred

thanks for the info

great idea as i repaint drake and heathkit

jerry

wb9jfr
----- Original Message -----
From: "fredwegener" <ac5tf@...>
To: DrakeRadio@yahoogroups.com
Sent: Thursday, April 7, 2011 1:21:55 PM
Subject: [DrakeRadio] Re: Color? (and general painting tip)

Thanks again, Paul. I'll give it a try a bit later this year. Right now I'm doing some Heathkit restoration and have come across a pretty incredible tool in the paint department. It may be common knowledge, I don't know, but there is a company called Preval that makes an aerosol spray system that can atomize and fine-spray virtually anything, but especially paint of your flavor choice! The system is available online, but may also be found at the local Sherwin Williams paint store and is dirt cheap (as in less than $10)! Using high-grade, computer color matched acrylics, I have just sprayed an SB-102, HW-100 and SB-600. The results are beautiful. This opens up a whole new realm of possibilities for me!

Regards, Fred AC5TF

[Non-text portions of this message have been removed]

5188. FS: Drake R-4 receiver and T-4x transmitter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-09 10:49:53 UTC
From: ctrpoint2004
Topic: 5188 Message: 5188

Greetings to all group members and readers. Downsizing a bit around the shack and have for sale the first of the legendary Drake Twins. Both receiver and transmitter in very good condition. Virtually perfect front panels. Slight scuff on top rear of transmitter cabinet, not really noticable. Exteriors on both about an 8.5. Very little copper corosion on chassis. Both units serviced and tweaked by Gary Poland, W8PU. Original manual for the R-4 (the one that actually came with the receiver) and printed copy of T-4x manual. No AC-4. See listings at Drake Virtual Museum for specs on units and my Photobucket page for pix of these.

Receiver $275, Transmitter $225,
both together $475 plus shipping.

http://www.dproducts.be/DRAKE_MUSEUM/r-4.htm

http://www.dproducts.be/DRAKE_MUSEUM/t-4x.htm

http://s272.photobucket.com/albums/jj167/wa0epw/

Michael J, Scanlan, WAØEPW
St. Paul, MN 55116
651-698-1149

5189. Drake items FS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-09 17:37:40 UTC
From: Ken Simpson, W8EK
Topic: 1764 Message: 5189

Drake items for sale:

Case for Drake TR-33 C
This is the black case that fits the Drake TR-33 C, and has
cutouts in the back for antenna, power, etc. It includes
the shoulder strap, and is in good shape. $12

Case for Drake TR-22
As above, but for the TR-22. No shoulder strap. $10

3 pin mic plug for TR-22
This is the small 3 pin mic plug that fits the Drake TR-22
mic jack. It is much smaller than most of the mic connectors.
This one has been used, but should still be usable some more. $10

Dual Meter SWR Bridge:

Quement SWB-2

This unit features two separate meters -- one for reading
forward power and another for reading SWR. This permits one
to easily monitor both the power going out, and the SWR on
the antenna at the same time. They were made in Japan, and
labeled with various names, including Swan, Siltronix, and
Quement. SO-239 connectors on each end.

It will work on HF, and VHF, covering 3 to 150 MHz, so is
ideal for the new rigs that include 6 and 2 meters.

It works fine and looks great. With paper work for $40.

SWR Bridge / Field Strength Meter:

Royce 2-100 Single Meter SWR Bridge / Field Strength Meter

With SO-239 connectors, it covers from 3 to 150 MHz,
covering HF, 6 meters, and 2 meters, so is ideal for the new
rigs with 6 meters and 2 meters in them.

This one works fine, and looks extremely nice. I do not see
any scratches on it, but it does have a previous owners name
on it. In its original box with original instructions. $32

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

5190. REDUCED: Military Sirplus VHF power amplifier

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-09 20:30:36 UTC
From: Bry Carling
Topic: 5190 Message: 5190

REDUCED: MIlitary Sirplus VHF power amplifier
VHF Linear Amplifier, 50 - 100 MHz, AM-1180/GRC

This military surplus workhorse was designed to cover 50-100 MHz, and the power level is officially 250 Watts max input. Great for 6 meter DX. It was originally
used with the T-302/PRC transmitter. Complete with 4X150A tube and everything
needed. Excellent condition, Easily modified to run more power with a 4CX250B
tube as W4DEX and others have done. Simple, basic workhorse amplifier. Easy to
get at everything internally and not a huge size. Needs power supply of approx:
1250V DC at 200 mA, and 6V AC at 2.5 A. You could sSimply add a regulated
screen supply for all-mode linear amplifier operation. Uses N connectors for RF in
and RF out. Dimensions: 12" X 6.25" X 13.5" deep.

Was $115.00

Now available for $75.00 plus shipping

Picture and details at:

http://www.af4k.com/radios.htm

73 and thanks for looking at this electronic marvel!

Bry, AF4K

[Non-text portions of this message have been removed]

5191. Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 11:46:05 UTC
From: w7jze
Topic: 5191 Message: 5191

So tonight I was setting up a second station next to my ole' trusty Drake TR4 station. Both stations are on 7.114. Both stations are directly connected to separate ANTs in my backyard. I'm a CW OP and as I was tuning the other station (YIKES, a Swan 500c, don't tell :-) I noticed a BRIGHT LIGHT shinning out of the back of the Drake TR4. Now THAT can't be right. I looked into the Drake as I keyed down the other station one more time to see where the light was coming from and I see a LIGHT BULB shinning inside the Drake as I keyed the other station. Lots of RF floating around my small backyard and both, separate ANTs are pretty close to each other.

I dragged out the Drake TR4 schematic and I see a "#12 Lamp Fuse" in series with the ANT on J4. I "suspect" that it is there to keep the RCVR circuitry front end from over loading so much that damage cannot occur (is that even possible?).

I further suspect that Drake used a LIGHT BULB as a fuse to give a visible indication to the OP (like me) that HEY DINGBAT, BACK OFF ON THE RF WITH THE RCVR ON :-)

I had previously turned the RF gain and the AF gain all the way down on the Drake before starting to tune the other station, but the light was on BRIGHT regardless of AF / RF gain settings (as it should be when reviewing the schematic). When I DISCONNECTED the Drake's ANT the "#12 Lamp Fuse" light bulb stopped shining when the other station was key down.

QUESTION: Would someone please confirm that my suspicion about the #12 Lamp fuse is correct (visual indication to the OP of excessive RF into TR4 RCVR circuitry).

NOTE: I did not see such a light coming out of the SWAN rig when the DRAKE was keyed, and checking the 500c schematic, I see no fuse in the ANT line, light bulb type or other. I wounder why DRAKE has such a device and SWAN didn't???

Thanks in advance for any help in scratching this BRIGHT LIGHT curiosty itch.

Bill - W7JZE

[Non-text portions of this message have been removed]

5192. Re: [DrakeRadio] Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 13:40:46 UTC
From: Garey Barrell
Topic: 5191 Message: 5192

Bill -

Yeah, you're right, it's NOT good! :-)

I think the bulb was included in the TR series because they were designed for mobile use. Of course in mobile operation it's quite possible to pull up next to another ham, say at a hamfest, - or - one of the trucker CB'ers that run a KW! So very high level RF is a definite possibility. The ANT input goes to a small several turn link on T9, and I have seen them 'charred' from too much RF, (or nearby lightning strikes,) but always with a piece of wire or other short across the bulb circuit! Someone too lazy to find a proper #12 bulb, or even solder pigtails onto a #47 bulb which has the same electrical specifications. Then you have a REAL problem as a T9 is no picnic to replace, assuming you can find one now.

I must admit I've never actually seen a bulb glow though!! A bulb is a pretty good 'fuse', plus it also has a very low resistance when cold, that increases with temperature. I suspect this is why a bulb was used, rather than as a visual warning! Also, the bulb isn't intended to blow out, disabling the radio, but just to limit the amount of RF allowed into that poor little link........

Anyway, this is one reason why antenna switches ground all unused positions.! I would suggest that you disconnect the antenna from the radio not being used, as I'm sure the Swan has a limit as to how much RF can be absorbed without damage, and no bulb to protect it. The most convenient arrangement would be two coaxial antenna switches connected 'back-to-back' so that one could select the radio and the other select the antenna. Certainly there are other switching or patch panel options too.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w7jze wrote:
> So tonight I was setting up a second station next to my ole' trusty
> Drake TR4 station. Both stations are on 7.114. Both stations are
> directly connected to separate ANTs in my backyard. I'm a CW OP and as
> I was tuning the other station (YIKES, a Swan 500c, don't tell :-) I
> noticed a BRIGHT LIGHT shinning out of the back of the Drake TR4. Now
> THAT can't be right. I looked into the Drake as I keyed down the other
> station one more time to see where the light was coming from and I see a

> LIGHT BULB shinning inside the Drake as I keyed the other station. Lots
> of RF floating around my small backyard and both, separate ANTs are
> pretty close to each other.
>
> I dragged out the Drake TR4 schematic and I see a "#12 Lamp Fuse" in
> series with the ANT on J4. I "suspect" that it is there to keep the
> RCVR circuitry front end from over loading so much that damage cannot
> occur (is that even possible?).
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> I further suspect that Drake used a LIGHT BULB as a fuse to give a
> visible indication to the OP (like me) that HEY DINGBAT, BACK OFF ON THE
> RF WITH THE RCVR ON :-)
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> I had previously turned the RF gain and the AF gain all the way down on
> the Drake before starting to tune the other station, but the light was
> on BRIGHT regardless of AF / RF gain settings (as it should be when
> reviewing the schematic). When I DISCONNECTED the Drake's ANT the "#12
> Lamp Fuse" light bulb stopped shining when the other station was key
> down.
>
> QUESTION: Would someone please confirm that my suspicion about the #12
> Lamp fuse is correct (visual indication to the OP of excessive RF into
> TR4 RCVR circuitry).
>
> NOTE: I did not see such a light coming out of the SWAN rig when the
> DRAKE was keyed, and checking the 500c schematic, I see no fuse in the
> ANT line, light bulb type or other. I wounder why DRAKE has such a
> device and SWAN didn't???
>
> Thanks in advance for any help in scratching this BRIGHT LIGHT curiosty
> itch.
>
> Bill - W7JZE
>
>
>
>

5193. Re: [DrakeRadio] Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 14:09:54 UTC
From: Jim Shorney
Topic: 5191 Message: 5193

On Sun, 10 Apr 2011 09:40:46 -0400, Garey Barrell wrote:

>A bulb is a
>pretty good 'fuse', plus it also has a very low resistance when cold,
>that increases with temperature.

I've seen this idea elsewhere. Bose had problems in the late 1970s with users blowing tweeters in their 301 bookshelf speakers, so they began sending out a kit with a "fuse lamp" and socket with each replacement tweeter. The first time I saw one, I immediately recognised what it was - a standard automotive dome light lamp! It worked, we never had one come back after the lamp was installed.

Polyfuses behave in a similar manner, but I suspect they wouldn't work well at RF.

Your fuse trivia for the day....

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5194. Re: Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 14:52:56 UTC
From: w7jze
Topic: 5191 Message: 5194

Hi Garey,

> ... A bulb is a
> pretty good 'fuse', plus it also has a very low resistance when cold,
> that increases with temperature. I suspect this is why a bulb was
used,
> rather than as a visual warning! Also, the bulb isn't intended to blow
> out, disabling the radio, but just to limit the amount of RF allowed
> into that poor little link........

AHhhhhh... Now ^^ THAT ^^ makes sense!

> I must admit I've never actually seen a bulb glow though!!

:-) Me neither!! :-) And it man-o-man it was BRIGHT!! It lit up the
wall behind the Drake with a screen pattern of dots as the light
streamed through the perforated back panel. Bright like a 5 D CELL
flashlight. I suspect that not too many more RF watts would have made it
dark... permanently :-)

Thank you so much for the answer and the sensible recommendation. Yup,
I'll get a proper ANT switch that grounds the unused connections.

VRY 73 and TNX AGN!

Bill - W7JZE

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
> Yeah, you're right, it's NOT good! :-)
>
> I think the bulb was included in the TR series because they were
> designed for mobile use. Of course in mobile operation it's quite
> possible to pull up next to another ham, say at a hamfest, - or - one
> of the trucker CB'ers that run a KW! So very high level RF is a
> definite possibility. The ANT input goes to a small several turn link
> on T9, and I have seen them 'charred' from too much RF, (or nearby
> lightning strikes,) but always with a piece of wire or other short
> across the bulb circuit! Someone too lazy to find a proper #12 bulb,
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> even solder pigtails onto a #47 bulb which has the same electrical
> specifications. Then you have a REAL problem as a T9 is no picnic to
> replace, assuming you can find one now.
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> I must admit I've never actually seen a bulb glow though!! A bulb is a

> pretty good 'fuse', plus it also has a very low resistance when cold,
> that increases with temperature. I suspect this is why a bulb was
used,
> rather than as a visual warning! Also, the bulb isn't intended to blow
> out, disabling the radio, but just to limit the amount of RF allowed
> into that poor little link........
>
> Anyway, this is one reason why antenna switches ground all unused
> positions.! I would suggest that you disconnect the antenna from the
> radio not being used, as I'm sure the Swan has a limit as to how much
RF
> can be absorbed without damage, and no bulb to protect it. The most
> convenient arrangement would be two coaxial antenna switches connected
> 'back-to-back' so that one could select the radio and the other select
> the antenna. Certainly there are other switching or patch panel
options
> too.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w7jze wrote:
> > So tonight I was setting up a second station next to my ole' trusty
> > Drake TR4 station. Both stations are on 7.114. Both stations are
> > directly connected to separate ANTs in my backyard. I'm a CW OP and
as
> > I was tuning the other station (YIKES, a Swan 500c, don't tell :-) I
> > noticed a BRIGHT LIGHT shinning out of the back of the Drake TR4.
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> > THAT can't be right. I looked into the Drake as I keyed down the
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> > station one more time to see where the light was coming from and I
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> > LIGHT BULB shinning inside the Drake as I keyed the other station.
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> > of RF floating around my small backyard and both, separate ANTs are
> > pretty close to each other.
> >
> > I dragged out the Drake TR4 schematic and I see a "#12 Lamp Fuse" in
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> > RCVR circuitry front end from over loading so much that damage
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> > occur (is that even possible?).
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> > I further suspect that Drake used a LIGHT BULB as a fuse to give a

> > visible indication to the OP (like me) that HEY DINGBAT, BACK OFF ON
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> > on BRIGHT regardless of AF / RF gain settings (as it should be when
> > reviewing the schematic). When I DISCONNECTED the Drake's ANT the
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> > down.
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> > TR4 RCVR circuitry).
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> > NOTE: I did not see such a light coming out of the SWAN rig when the
> > DRAKE was keyed, and checking the 500c schematic, I see no fuse in
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> > ANT line, light bulb type or other. I wounder why DRAKE has such a
> > device and SWAN didn't???
> >
> > Thanks in advance for any help in scratching this BRIGHT LIGHT
curiosty
> > itch.
> >
> > Bill - W7JZE
> >
> >
> >
> >
>

[Non-text portions of this message have been removed]

5195. Re: Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 15:02:40 UTC
From: w7jze
Topic: 5191 Message: 5195

Hi Jim,

Clever little (simple) LAMP circuit that seems to have many applications beyond RF limiting. I haven't heard about POLYFUSES before, but I bet they don't light up as BRIGHT as that lil' #12 LAMP in the back of the Drake :-)

PS: I used to sell PCBs to Bose in their BEAUTIFUL downtown San Francisco location in the early 90's. My memory fades as to the engineer's names that I worked with, but "JIM" sounds familiar. "General Circuits" was the vendor (long gone now). Sound familiar to you?

Thanks a lot for your reply!

Bill - W7JZE

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sun, 10 Apr 2011 09:40:46 -0400, Garey Barrell wrote:
>
> >A bulb is a
> >pretty good 'fuse', plus it also has a very low resistance when cold,
> >that increases with temperature.
>
> I've seen this idea elsewhere. Bose had problems in the late 1970s with users
> blowing tweeters in their 301 bookshelf speakers, so they began sending out a
> kit with a "fuse lamp" and socket with each replacement tweeter. The first time
> I saw one, I immediately recognised what it was - a standard automotive dome
> light lamp! It worked, we never had one come back after the lamp was installed.
>
> Polyfuses behave in a similar manner, but I suspect they wouldn't work well at
> RF.
>
> Your fuse trivia for the day....
>
> 73
>
> -Jim
>

>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google,
and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5196. Re: [DrakeRadio] Re: Curious about TR4 "#12 Lamp Fuse"

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-10 17:50:40 UTC
From: Jim Wilhite
Topic: 5191 Message: 5196

Some Collins receivers had a neon bulb in them to protect the antenna input. It was not in series but from the antenna to ground and designed to fire if the RF level exceeded a certain point. Any builder who was involved with supplying the military or dept of state with radio gear in the 50s through the 70s had some sort of circuit.

In the older stuff they suggested a set of contacts on an external relay, which would also mute the receiver, that would open when the transmit switch was closed or was operable when another station was on the air with high power; thereby isolating the receiver input circuits. Most of the antenna input coils links were of wire that would carry milliampers so the design was critical in high power situations.

Jim / W5JO

From: w7jze <bill.cooke@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, April 10, 2011 9:52:56 AM
Subject: [DrakeRadio] Re: Curious about TR4 "#12 Lamp Fuse"

Hi Garey,

> ... A bulb is a
> pretty good 'fuse', plus it also has a very low resistance when cold,
> that increases with temperature. I suspect this is why a bulb was
used,
> rather than as a visual warning! Also, the bulb isn't intended to blow
> out, disabling the radio, but just to limit the amount of RF allowed
> into that poor little link........

AHhhhhh... Now ^^ THAT ^^ makes sense!

> I must admit I've never actually seen a bulb glow though!!

:-) Me neither!! :-) And it man-o-man it was BRIGHT!! It lit up the wall behind the Drake with a screen pattern of dots as the light streamed through the perforated back panel. Bright like a 5 D CELL flashlight. I suspect that not too many more RF watts would have made it dark... permanently :-)

Thank you so much for the answer and the sensible recommendation. Yup, I'll get a proper ANT switch that grounds the unused connections.

VRY 73 and TNX AGN!

Bill - W7JZE

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Bill -
>
> Yeah, you're right, it's NOT good! :-)
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> I think the bulb was included in the TR series because they were
> designed for mobile use. Of course in mobile operation it's quite
> possible to pull up next to another ham, say at a hamfest, - or - one
> of the trucker CB'ers that run a KW! So very high level RF is a
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> even solder pigtails onto a #47 bulb which has the same electrical
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> can be absorbed without damage, and no bulb to protect it. The most
> convenient arrangement would be two coaxial antenna switches connected
> 'back-to-back' so that one could select the radio and the other select
> the antenna. Certainly there are other switching or patch panel
options
> too.
>
> 73, Garey - K4OAH
> Glen Allen, VA

[Non-text portions of this message have been removed]

5197. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-11 18:41:07 UTC
From: bobsalmon@juno.com
Topic: 5197 Message: 5197

I'm looking for the 9Mhz filter for a standard TR4. Anyone that has some knowledge of this, please let me know.
Thanks,
Bob N3JQD

_____
Groupon.com Official Site
1 huge daily deal on the best stuff to do in your city. Try it today!
http://thirdpartyoffers.juno.com/TGL3141/4da34b4a757a020ae1fst06vuc

5198. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-11 20:04:48 UTC
From: Garey Barrell
Topic: 5197 Message: 5198

Bob -

There are two filters in a TR-4. You need to specify which one?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

bobsalmon@... wrote:
> I'm looking for the 9Mhz filter for a standard TR4. Anyone that has some knowledge of this, please let me know.
> Thanks,
> Bob N3JQD
>
>
>

5199. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-12 13:14:17 UTC
From: bobsalmon@juno.com
Topic: 5197 Message: 5199

Thanks Garry.

The filter is for the USB side of the rig. Designated 9.0-2.1/8/U. It is part of the unit marked A1870-A1.

Any help would be very much appreciatred.
Bob N3JQD

_____
Obama Urges Refinance
If you owe under $729k you probably qualify for Obama's Refi Programs
http://thirdpartyoffers.juno.com/TGL3141/4da45074af6ea6cdcc3st05vuc

5200. Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-12 15:21:09 UTC
From: PaulG
Topic: 5197 Message: 5200

Bob
I am working on a bad 'L' filter for a TR-4. I am going to try and repair the one in the radio. It is an 'L' filter.

If you want a new replacement try InRad they sell em...

For pix of my filter with the top off. http://pgerhardt.blogspot.com

I have two sets of crystals on order, a matched to 30 Hz set for each filter. Not sure if I can get it to work again but it will be interesting.

Paul K3PG

--- In DrakeRadio@yahoogroups.com, "bobsalmon@..." <bobsalmon@...> wrote:
>
> Thanks Garry.
>
> The filter is for the USB side of the rig. Designated 9.0-2.1/8/U. It is part of the unit marked A1870-A1.
>
> Any help would be very much appreciatred.
> Bob N3JQD
>
> _____
> Obama Urges Refinance
> If you owe under $729k you probably qualify for Obama's Refi Programs
> http://thirdpartyoffers.juno.com/TGL3141/4da45074af6ea6cdcc3st05vuc
>

5201. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-12 15:37:30 UTC
From: Garey Barrell
Topic: 5197 Message: 5201

Paul -

If you haven't already, or have another source, you might want to take a look at

<http://pages.suddenlink.net/wa5bdu/crystal_slide_show.pdf>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

PaulG wrote:
> Bob
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>
> If you want a new replacement try InRad they sell em...
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> For pix of my filter with the top off. http://pgerhardt.blogspot.com
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> Paul K3PG
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> --- In DrakeRadio@yahoogroups.com, "bobsalmon@..."<bobsalmon@...> wrote:
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>> Thanks Garry.
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>> The filter is for the USB side of the rig. Designated 9.0-2.1/8/U. It is part of the unit marked A1870-A1.
>>
>> Any help would be very much appreciatred.
>> Bob N3JQD
>>
>

5202. Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-13 21:25:09 UTC
From: PaulG
Topic: 5197 Message: 5202

Garey
Thanks for the link! Will be helpful I am sure. I did find a source of matched crystals for a reasonable price. I bought 3 sets and will have to test them when they arrive.
One set is 9.0015 and 2 are for 8.9985. It will be interesting to see how this project goes.

Getting the can open was a bit of a trick and only 3 of the original xtals survived. Probably at least one was bad but could have been more. Fuse lamp was bad too and couple of other issues too. It is coming along and is always a learning experience here.

Paul K3PG
Http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Paul -
>
> If you haven't already, or have another source, you might want to take a
> look at
>
> <http://pages.suddenlink.net/wa5bdu/crystal_slide_show.pdf>
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> 73, Garey - K4OAH
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> PaulG wrote:
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> > I am working on a bad 'L' filter for a TR-4. I am going to try and repair the one in the radio. It is an 'L' filter.
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> > If you want a new replacement try InRad they sell em...
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> > For pix of my filter with the top off. http://pgerhardt.blogspot.com
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> > I have two sets of crystals on order, a matched to 30 Hz set for each filter. Not sure if I can get it to work again but it will be interesting.
> >
> > Paul K3PG
> >
> > --- In DrakeRadio@yahoogroups.com, "bobsalmon@"<bobsalmon@> wrote:
> >

> >> Thanks Garry.
> >>
> >> The filter is for the USB side of the rig. Designated 9.0-2.1/8/U. It is part of the unit marked A1870-A1.
> >>
> >> Any help would be very much appreciatred.
> >> Bob N3JQD
> >>
> >
>

5203. 6JB6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-14 22:39:25 UTC
From: Paul Kraemer
Topic: 5203 Message: 5203

Any recommendations for a good source for the 6JB6 tube(s)?
Any particular brand to seek out? Any to avoid?
Has anyone ever found a substitute that is reliable?
Thanks
Paul K0UYA

5204. Re: [DrakeRadio] 6JB6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-14 22:52:57 UTC
From: amfone
Topic: 5203 Message: 5204

Purchase only Sylvania, Zenith, RCA or other NOS USA tubes. There is not a sub but I believe a 6ge5 will work if you only use the Drake on bands below 20 meters. Not sure of the actual number of the tube however, I'm sure others will help.

73 tim
wb8uhz

From: Paul Kraemer <elespe@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, April 14, 2011 6:39:25 PM
Subject: [DrakeRadio] 6JB6

Any recommendations for a good source for the 6JB6 tube(s)?
Any particular brand to seek out? Any to avoid?
Has anyone ever found a substitute that is reliable?
Thanks
Paul K0UYA

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5205. Drake L-4b and W4 boxes and manuals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-14 23:28:43 UTC
From: Andy
Topic: 5205 Message: 5205

This is a great package at an even better price.... This package is a 9 out of 10!!!

This is a Drake L-4b with origional box and manual

Drake Power supply with origional box

Drake W4 Watt meter with origional manual

Ampkeyer with home brew plus for the amp.

This is a great working amy with lots of life in the 3-500z tubes.

Asking $1300 O.B.O.

kj4fec@...

5206. TR-4C: Can't adj. PS bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 02:26:50 UTC
From: fdonnelly98
Topic: 5206 Message: 5206

Hi all. Just ran into a problem with my TR-4C. I can't get the power supply bias any lower than 0.25. (manual says 0.1)
I had packed it away 2 months ago and I was able to adjust the bias to the recommended 0.1 before I packed it up to relocate my shack.

My question is, would you suspect the PS or the TR-4C. Is the bias adj being high rather than low critical. I know that no or low bias can destroy the finals.

I have the power supply rebuild kit and I intend to make the conversion. Do you think it is the Power supply.

Just checking before I dig into it. Love the group. Many good topics.
Many thanks in advance Frank KI0RQ

5207. Re: [DrakeRadio] TR-4C: Can't adj. PS bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 02:36:15 UTC
From: Garey Barrell
Topic: 5206 Message: 5207

Frank -

Most likely the power supply. The BIAS supply should put out about 40 -
80 VDC, and you should get 0.1 A at about -65V.

Do NOT run the transceiver with 0.25A even for a short while as that
overloads the PA tubes.

The rebuild kit is a great idea!!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

fdonnelly98 wrote:
> Hi all. Just ran into a problem with my TR-4C. I can't get the power supply bias any lower than 0.25. (manual says 0.1)
> I had packed it away 2 months ago and I was able to adjust the bias to the recommended 0.1 before I packed it up to relocate my shack.
>
> My question is, would you suspect the PS or the TR-4C. Is the bias adj being high rather than low critical. I know that no or low bias can destroy the finals.
>
> I have the power supply rebuild kit and I intend to make the conversion. Do you think it is the Power supply.
>
> Just checking before I dig into it. Love the group. Many good topics.
> Many thanks in advance Frank KI0RQ
>
>
>

5208. Re: TR-4C: Can't adj. PS bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 02:52:26 UTC
From: fdonnelly98
Topic: 5206 Message: 5208

Hi Garey;
When I saw the high bias I shut it off.. I plan on shorting out pins 1 and 2 on the AC-4 and check the - voltage on pin 9. that should be the bias voltage.I went to the file section and found a good description of the connector plug.
Being that I was planning on rebuilding the AC-4, I was hoping I didn't have another problem with the TR-4C. It worked great before packing it up. I am not really very familiar with the Drake line rigs.
Many thanks for your response
73 Frank Donnelly KI0RQ

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Frank -
>
> Most likely the power supply. The BIAS supply should put out about 40 -
> 80 VDC, and you should get 0.1 A at about -65V.
>
> Do NOT run the transceiver with 0.25A even for a short while as that
> overloads the PA tubes.
>
> The rebuild kit is a great idea!!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> fdonnelly98 wrote:
> > Hi all. Just ran into a problem with my TR-4C. I can't get the power supply bias any lower than 0.25. (manual says 0.1)
> > I had packed it away 2 months ago and I was able to adjust the bias to the recommended 0.1 before I packed it up to relocate my shack.
> >
> > My question is, would you suspect the PS or the TR-4C. Is the bias adj being high rather than low critical. I know that no or low bias can destroy the finals.
> >
> > I have the power supply rebuild kit and I intend to make the conversion. Do you think it is the Power supply.
> >
> > Just checking before I dig into it. Love the group. Many good topics.
> > Many thanks in advance Frank KI0RQ
> >

> >
> >
>

5209. Re: TR-4C: Can't adj. PS bias

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 03:20:23 UTC
From: fdonnelly98
Topic: 5206 Message: 5209

Hi again Garey; just fired up the PS and the trusty old 410C and
found that the full range of the bias adjustment only gives me
-22V to -52v. cant get to that -65v. So time to update the PS.
hope I didn't hurt the finals. I do have a NOS matched set, just in case I need them. then
I would have to check the neutralization& driver bias.
I will give you a shout when I finish the AC-4 rebuild.
73 Frank Donnelly KI0RQ

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Frank -
>
> Most likely the power supply. The BIAS supply should put out about 40 -
> 80 VDC, and you should get 0.1 A at about -65V.
>
> Do NOT run the transceiver with 0.25A even for a short while as that
> overloads the PA tubes.
>
> The rebuild kit is a great idea!!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> fdonnelly98 wrote:
> > Hi all. Just ran into a problem with my TR-4C. I can't get the power supply bias any
lower than 0.25. (manual says 0.1)
> > I had packed it away 2 months ago and I was able to adjust the bias to the recommended
0.1 before I packed it up to relocate my shack.
> >
> > My question is, would you suspect the PS or the TR-4C. Is the bias adj being high
rather than low critical. I know that no or low bias can destroy the finals.
> >
> > I have the power supply rebuild kit and I intend to make the conversion. Do you think
it is the Power supply.
> >
> > Just checking before I dig into it. Love the group. Many good topics.
> > Many thanks in advance Frank KI0RQ
> >
> >
> >

>

5210. F/S; Drake T4, MS4, and AC4 w/D104 silve eagle Mic.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 03:41:29 UTC
From: Wayne Skiba
Topic: 5210 Message: 5210

Hi All:
Doing alittle spring cleaning, and am selling one of my Drake stations I have a really nice TR4 with the MS4 speaker and AC4 power supply with D104 silver Eagle Mic with the correct Drake plug.
The power supply was rebuilt by a well known Drake tech, and the TR4 was aligned also by him.
The units are in excellent physical and electrical condition. I am asking $620.00 shipped in CONUS.
Thank you for looking
Wayne

[Non-text portions of this message have been removed]

5211. F/S: Complete Drake station Updated

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 15:02:17 UTC
From: Wayne Skiba
Topic: 5211 Message: 5211

Hi All:
I am posting a revision to my previous ad to sell my Drake TR4 Station:
I have for sale my completen TR4 station with the MS4 and AC4 p/s along with the D104 Silver Eagle microphone, all in excellent physical and electrical condition.
The TR4 was aligned by a well known drake tech and the AC4 was completely rebuilt by the same rep.
This station comes from a non smoking home and is plug and play.
I am asking $570.00 shipped in CONUS. I would like to sell as a complete station.
Thank you for looking.
Wayne

[Non-text portions of this message have been removed]

5212. Re: 6JB6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 17:09:38 UTC
From: querencias
Topic: 5203 Message: 5212

Just got a matched pair of 6JB6As from RF Parts, $66 + shipping.

www.rfparts.com

--- In DrakeRadio@yahoogroups.com, amfone <amfone20000@...> wrote:
>
> Purchase only Sylvania, Zenith, RCA or other NOS USA tubes. There is not a sub
> but I believe a 6ge5 will work if you only use the Drake on bands below 20
> meters. Not sure of the actual number of the tube however, I'm sure others will
> help.
>
> 73 tim
> wb8uhz
>
>
>
>
> _____
> From: Paul Kraemer <elespe@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Thu, April 14, 2011 6:39:25 PM
> Subject: [DrakeRadio] 6JB6
>
> Any recommendations for a good source for the 6JB6 tube(s)?
> Any particular brand to seek out? Any to avoid?
> Has anyone ever found a substitute that is reliable?
> Thanks
> Paul K0UYA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
> [Non-text portions of this message have been removed]
>

5213. TR4 wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 18:51:20 UTC
From: bobsalmon@juno.com
Topic: 5213 Message: 5213

Hi. Looking for any condition TR4 . Dead is ok, I need parts. Let me know what you have. If you have a working version, I may also be interested in that as well. I've always wanted a TR4C, but, never found one affordably.
RSVP

Bob N3JQD

_____
Groupon.com Official Site
1 huge daily deal on the best stuff to do in your city. Try it today!
http://thirdpartyoffers.juno.com/TGL3141/4da893fa18346b504ast04vuc

5214. Re: [DrakeRadio] TR4 wanted

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 19:08:31 UTC
From: Forrest Plumstead
Topic: 5213 Message: 5214

This was posted on the list earlier:

<Hi All:
I am posting a revision to my previous ad to sell my Drake TR4 Station:
I have for sale my completen TR4 station with the MS4 and AC4 p/s along with the D104 Silver Eagle microphone, all in excellent physical and electrical condition.
The TR4 was aligned by a well known drake tech and the AC4 was completely rebuilt by the same rep.
This station comes from a non smoking home and is plug and play.
I am asking $570.00 shipped in CONUS. I would like to sell as a complete station.
Thank you for looking.
Wayne> trapp7318@...

On Fri, Apr 15, 2011 at 1:51 PM, bobsalmon@... <bobsalmon@...>wrote:

> Hi. Looking for any condition TR4 . Dead is ok, I need parts. Let me know
> what you have.
> If you have a working version, I may also be interested in that as well.
> I've always wanted a TR4C, but, never found one affordably.
> RSVP
>
> Bob N3JQD
>
> --
>
--
Forrest Plumstead fplum1@...
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/
Ham Radio WB5HQO http://forrest.3h.com/main.html
Extra Class VE
NAQCC Member # 3678/ FPQRP # 2642
SKCC Member # 6855/ QRPadillo # 59

[Non-text portions of this message have been removed]

5215. F/S Drake TR4 station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-15 21:13:21 UTC
From: Wayne Skiba
Topic: 5215 Message: 5215

Hi:
I have for sale my Drake TR4 station with the MS4, AC4 and D-104 Silver Eagle Mic.
All components are in excellent physical and electrical condition, the TR4 was aligned by a well know Drake tech. and the AC4 was completly rebuilt by the same Drake tech.
I will send pics upon request it comes from a non smoking environment.
I am asking $475.00 plus $25.00 to help with shipping.
Thank you for looking.
Wayne

[Non-text portions of this message have been removed]

5216. Re: [DrakeRadio] 6JB6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-16 18:16:29 UTC
From: ALAN PHILLIPS
Topic: 5203 Message: 5216

For a good source of tubes I have use two people that are listed on the fine site: wb4hfn.com

They are Electron tube enterprises for many tubes plus the sylvania 6jb6

and the site by Mike Marx,

. SND Tube Sales, Michael C. Marx, 908 Caulks Hill Road, St. Charles, MO 63304,

Phone 636-939-9190, Fax 636-922-0601, E-mail: sndtubes@... Web: http://www.vacuumtubes.com

SND Tube Sales Michael C. Marx
908 Caulks Hill Road
St. Charles, MO 63304
Phone 636-939-9190
24 Hour Fax 636-922-0601
E-mail: sndtubes@...
Ham Call: WB0SND

Electron Tube Enterprises

ELECTRON TUBE ENTERPRISES

After 40 years in the tube business, Dick is finally retiring.
Thank you very much for your patronage.
Tel: 207-490-5870
E-Mail: dick@...

You can contact the new owner at:
E-Mail: quinn99@...

From: Paul Kraemer <elespe@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, April 14, 2011 5:39:25 PM
Subject: [DrakeRadio] 6JB6

Any recommendations for a good source for the 6JB6 tube(s)?
Any particular brand to seek out? Any to avoid?
Has anyone ever found a substitute that is reliable?
Thanks
Paul K0UYA

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5217. F/S: Complte Drake TR4 station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-16 20:25:54 UTC
From: Wayne Skiba
Topic: 5217 Message: 5217

Hi All:
Maybe three times is a charm, I am relisting my TR4 station again at a lower price, I really need to sell it as I have no room for it as we will be moving to a smaller place, here we go:
 I have a TR4 with the MS4, AC4, and a D-104 Silver Eagle Desk mic. with the appropriate Drake plug.
All units are in excellent physical and electrical condition, the TR4 was aligned by a well known Drake tech and the AC4 was completely rebuilt by the same Drake tech.
It comes from a non smoking environment and I will provide pics upon request.
I am asking $475.00 shipped in Conus.
Thank you for looking
Wayne

[Non-text portions of this message have been removed]

5218. Re: 6JB6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-16 22:02:07 UTC
From: Dave Drake
Topic: 5203 Message: 5218

If they are not sylvania's or GE's you may have to go through neutralization. In some cases, the GE and Sylvania tubes are simply rebranded to that vendor. The RCA's are another brand/manufacture. I never had to neutralize a new set of Sylvania's. Never used a GE, but some bad stories on RCA's. Eventually the RCA's will work, but took some time and effort. Most problems are above 20m, and mostly on 10m. The 3 tube transcievers were more difficult. All tubes should be matched within 5% or better.

Most all US tubes will work. But Drake only sold Sylvania's up to near the end. Then I think they did try subbing other available brands, but then ran into service issues with the replacement tubes. I think in the end they sold GE's, but not sure....memory fades on that part.

Theres a ton of information out there on Drake TR tubes. www.wb4hfn.com has lots of info, as does the Drake Museum site.
David
Wd9cmd

[Non-text portions of this message have been removed]

5219. New to the group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-16 23:30:14 UTC
From: merlin_20832
Topic: 5219 Message: 5219

I just bought a Drake R-4B and MS-4 speaker off of Craigslist. It's in perfect condition and has 10 optional crystals installed. All I can say about this receiver's frequency stability and audio quality is WOW! I have bought and sold countless receivers over my long life, but this one blew me away.
Merlin

5220. Re: New to the group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-17 00:16:04 UTC
From: bobsalmon@juno.com
Topic: 5219 Message: 5220

That's a great receiver. Enjoy it and welcome to the group. I'm working on restoring a TR4.

Bob N3JQD

_____
Groupon™ Official Site
1 ridiculously huge coupon a day. Get 50-90% off your city's best!
http://thirdpartyoffers.juno.com/TGL3141/4daa31af8caa97fe104st02vuc

5221. Re: [DrakeRadio] New to the group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-17 01:00:39 UTC
From: Don Cunningham
Topic: 5219 Message: 5221

Welcome to the group, Merlin!! Nice find!! I have SO many Drakes in the queue to fix, I'll not bore the group with a list, hi. Great gear, still perking after all these years. Lots of help on here if you need it.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5222. Re: [DrakeRadio] New to the group

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-17 01:03:33 UTC
From: AA8W
Topic: 5219 Message: 5222

Great find. I got a pristine SPR-4 from Craigslist. And it was only 10 miles away!
I sold my C line when the third baby was born. He is 31 now and I have the B line and love it. Although most of the time I use a TR-3 with RV-3.
You really can’t kill these old rigs.
73,
Mike AA8W

From: merlin_20832
Sent: Saturday, April 16, 2011 7:30 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] New to the group

I just bought a Drake R-4B and MS-4 speaker off of Craigslist. It's in perfect condition and has 10 optional crystals installed. All I can say about this receiver's frequency stability and audio quality is WOW! I have bought and sold countless receivers over my long life, but this one blew me away.
Merlin

[Non-text portions of this message have been removed]

5223. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-17 19:39:13 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5223

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5224. replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 02:50:08 UTC
From: merlin_20832
Topic: 5224 Message: 5224

Has anyone bought and installed the D-Lab four section filter cap?

5225. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 02:55:09 UTC
From: Don Cunningham
Topic: 5224 Message: 5225

I buy all of mine from Tom at Hayseed Hamfest (www.hayseedhamfest.com). Good quality, and fast service. Commercial quality, not "homebrew" looking. I don't recognize "DLab", is that a new place??
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5226. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 13:53:13 UTC
From: Garey Barrell
Topic: 5224 Message: 5226

No, I use the caps from Hayseedhamfest.com designed to match the original.

Not familiar with D-Lab.?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

merlin_20832 wrote:
> Has anyone bought and installed the D-Lab four section filter cap?
>
>
>
>

5227. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 14:02:17 UTC
From: Garey Barrell
Topic: 5224 Message: 5227

Don -

Here it is... I think I'll stick with Tom!

http://tinyurl.com/3k3s2h9

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> I buy all of mine from Tom at Hayseed Hamfest (www.hayseedhamfest.com). Good quality, and fast service. Commercial quality, not "homebrew" looking. I don't recognize "DLab", is that a new place??
> 73,
> Don, WB5HAK
>
>
>

5228. RE: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 14:15:12 UTC
From: Jim Chaggaris
Topic: 5224 Message: 5228

What a "train wreck" that thing is.Stick with Tom's offerings.

73

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Monday, April 18, 2011 9:02 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] replacing the four section filter cap

Don -

Here it is... I think I'll stick with Tom!

http://tinyurl.com/3k3s2h9

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> I buy all of mine from Tom at Hayseed Hamfest (www.hayseedhamfest.com). Good quality, and fast service. Commercial quality, not "homebrew" looking. I don't recognize "DLab", is that a new place??
> 73,
> Don, WB5HAK

>
>
>

[Non-text portions of this message have been removed]

5229. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 14:18:51 UTC
From: Paul Christensen
Topic: 5224 Message: 5229

It's pretty hard to beat the quality of the product provided by Tom at HayseedHamfest.com

What really surprised me was the speed of delivery on a custom multi-section cap for the Drake 1A, a cap he does not normally stock. That cap was not only the same size and value as the original, but it was polished from solid copper tubing to better match the copper chassis. Based on what he did for the 1A, I suspect he could build any multi-section cap for old boatanchors and vintage Hi-Fi gear.

Paul, W9AC

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 18, 2011 10:02 AM
Subject: Re: [DrakeRadio] replacing the four section filter cap

Don -

Here it is... I think I'll stick with Tom!

http://tinyurl.com/3k3s2h9

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> I buy all of mine from Tom at Hayseed Hamfest (www.hayseedhamfest.com). Good quality, and fast service. Commercial quality, not "homebrew" looking. I don't recognize "DLab", is that a new place??
> 73,
> Don, WB5HAK
>
>
>

[Non-text portions of this message have been removed]

5230. RE: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 14:26:05 UTC
From: Jim Chaggaris
Topic: 5224 Message: 5230

Paul,

Tom has built a number of custom caps for me and was able to provide twist locks for my Galaxy GT-550(A) power supplies and filter caps. I just gave him the values and dimensions of each cap.

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Paul Christensen
Sent: Monday, April 18, 2011 9:19 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] replacing the four section filter cap

It's pretty hard to beat the quality of the product provided by Tom at HayseedHamfest.com

What really surprised me was the speed of delivery on a custom multi-section cap for the Drake 1A, a cap he does not normally stock. That cap was not only the same size and value as the original, but it was polished from solid copper tubing to better match the copper chassis. Based on what he did for the 1A, I suspect he could build any multi-section cap for old boatanchors and vintage Hi-Fi gear.

Paul, W9AC

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Monday, April 18, 2011 10:02 AM
Subject: Re: [DrakeRadio] replacing the four section filter cap

Don -

Here it is... I think I'll stick with Tom!

http://tinyurl.com/3k3s2h9

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> I buy all of mine from Tom at Hayseed Hamfest (www.hayseedhamfest.com).
Good quality, and fast service. Commercial quality, not "homebrew" looking.
I don't recognize "DLab", is that a new place??
> 73,
> Don, WB5HAK
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5231. Re: replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 14:54:18 UTC
From: PaulG
Topic: 5224 Message: 5231

I have used Toms in a Drake 2B. It was not has difficult as I thought to remove the solder tabs. I did it with a medium sized pencil iron even.

Put a couple of new 2B pix on the blog and you can see the new Can. An older post shows a few close ups. I just put a bunch of new caps in the R4B but have not yet done the Can, when I do I will go to Tom at Hayseed again. If I am going to go to the trouble of pulling the can it would be nice to have it look nice.

Pix of a Hayseed Hamfest can on a 2B and some R4B and TR-4 pix as well
http://pgerhardt.blogspot.com

--- In DrakeRadio@yahoogroups.com, "merlin_20832" <merlin_20832@...> wrote:
>
> Has anyone bought and installed the D-Lab four section filter cap?
>

5232. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 17:12:21 UTC
From: Don Cunningham
Topic: 5224 Message: 5232

I KNOW I'll stay with Hayseed caps. They are as cheap as that mess. That is homebrew for sure, hi. I'd rather put them under the chassis and leave the old can, and that's not a good solution either. Go Tom!!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5233. Re: [DrakeRadio] replacing the four section filter cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 19:58:57 UTC
From: Richard Knoppow
Topic: 5224 Message: 5233

----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 18, 2011 10:12 AM
Subject: Re: [DrakeRadio] replacing the four section filter
cap

>I KNOW I'll stay with Hayseed caps. They are as cheap as
>that mess. That is homebrew for sure, hi. I'd rather put
>them under the chassis and leave the old can, and that's
>not a good solution either. Go Tom!!!
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>
I am another who will vouch for Tom. I have gotten
replacements for both Drake and Hallicrafters stuff from
him. All was exactly like the original (except they worked)
and are factory made. He is honest and reliable.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5234. Here is the YouTube video of the D-Lab four section cap replacement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 20:11:15 UTC
From: merlin_20832
Topic: 5234 Message: 5234

http://www.youtube.com/watch?v=6tWaSCxCoxw

Merlin

5235. Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-18 23:36:27 UTC
From: Wayne Skiba
Topic: 5235 Message: 5235

Hi All:
I went to tune up my TR4 on 80 meters with a dummy load and I set the bias as per the manual, and everything was fine, I started the procedure to tune up on 80 meters with the dummy load I moved the function switch to the X-CW position and so far so good, and the plate amps were moving up the scale slightly, and when I went to peak the rf tune control for maxium plate current, the needle was pinned against the other side of the meter and a loud whistling came from the speaker, and then just darkness.
I checked the fuse in the ac4 and found that it had blown, I had put another 5 amp 250volt fuse in and I seen a bright light under the power amplifier cage and the second fuse blew, and I smelled like something was burnt. I unplugged the power supply and took off the botton cover and noticed that a small 1/2 resistor was seared under the power amplifier cage. I put the bottom cover back on and put in another fuse and turned the tr4 on again and noticed a bright light coming from the bottom of the p/a cage again and I decided to shut her down and ask for help.
So please let me know how to fix this problem as now I am afraid to turn the tr4 on even just to listen, as it seems to keep blowing fusues and a strange light comes on under the pa cage just before the fuse blows.
Thank you
Wayne

[Non-text portions of this message have been removed]

5236. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 01:42:58 UTC
From: Garey Barrell
Topic: 5235 Message: 5236

Wayne -

You've probably destroyed your finals by replacing the fuse repeatedly. One of more are probably shorted, destroying the Cathode resistors under each socket.

The initial problem was failure of the BIAS supply in the AC-4. I suggest (for the second time today,) the 'theheathkitshop.com' AC-4R rebuild kit.

Aside from new finals in the transceiver, you'll probably need to replace the 15 ohm, 1W Cathode resistors under each socket, and quite possibly the meter shunt resistor as well. Hopefully the Cathode RF choke and the Plate RF choke have survived.

Lesson 1: Don't ever just replace a blown fuse with another without determining what caused the first one to blow. Yes, you might 'waste' some time troubleshooting, only to discover that the fuse just died from old age, but that's better than what you have now.

Lesson 1a: Those of you who are tempting fate with original BIAS supply electrolytics need to recall the computer hard drive mantra. "It's not a question of _IF_ it will fail, only _WHEN........_!" With finals $30 and up EACH, (not to mention 'collateral' damage,) an AC-4R kit is well worth while.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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Wayne Skiba wrote:
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> Thank you
> Wayne
>
>
>

5237. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 02:06:03 UTC
From: Don Cunningham
Topic: 5237 Message: 5237

Garey,
You bring up a REALLY good point that bears repeating occasionally. These old rigs are NOT plug and play, they WILL need some care and feeding. It is great that we are cultivating a new crop of enthusiasts, but they didn't go through the times we did when these were fairly new rigs. Even then, they needed maintenance often, in my experience. Of course, I was running them HARD on RTTY, but I went through some cathode resistors and other sundry parts, hi. Now they need some fairly major surgery to make them resonably reliable.

One question, what is your recommendation when we need to replace the cathode resistors and other carbon composition resistors in these rigs. My old stash of 15 ohm resistors have drifted up. I realize that I bought them in the mid 1970's from my favorite surplus store, so they are OLD, and it's time. I need to replace the ones in my rigs as I go through them and am confused by the "new" nomenclature of ceramic and such resistors. I'd like to do it once and use them for a few years, hi. I also have some needed in my "Brand X" 30L1 amp that I need to replace (10 ohm 1 or 2 watt in the HV supply) and the cathode resistors.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5238. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 02:09:30 UTC
From: Wayne Skiba
Topic: 5235 Message: 5238

Gary:
Thank you for the information, the guy I bought this station from told me that the ac4 was completly rebuilt by Jeff Covelli in 2008, as a matter of fact there is a sticky note on the back of the ac4 that says new ac4 boards on 06/16/08, and the TR4 was aligned.
 He also said that he did not use it much as it was sitting on a shelf with the ms4,ac4 and the D104 Silver Eagle mic. for the past two years.
From that info I really did not expect any trouble? I just thought that I accidently over drove the finals and they drew too much current and I blew the 5 amp fuse.
Well maybe I have to go back to the drawing board.
Thank you
Wayne

--- On Mon, 4/18/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: Tr4 Problems
To: DrakeRadio@yahoogroups.com
Date: Monday, April 18, 2011, 8:42 PM

Wayne -

You've probably destroyed your finals by replacing the fuse repeatedly. One of more are probably shorted, destroying the Cathode resistors under each socket.

The initial problem was failure of the BIAS supply in the AC-4. I suggest (for the second time today,) the 'theheathkitshop.com' AC-4R rebuild kit.

Aside from new finals in the transceiver, you'll probably need to replace the 15 ohm, 1W Cathode resistors under each socket, and quite possibly the meter shunt resistor as well. Hopefully the Cathode RF choke and the Plate RF choke have survived.

Lesson 1: Don't ever just replace a blown fuse with another without determining what caused the first one to blow. Yes, you might 'waste' some time troubleshooting, only to discover that the fuse just died from old age, but that's better than what you have now.

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73, Garey - K4OAH
Glen Allen, VA

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> Thank you
> Wayne
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>
>

[Non-text portions of this message have been removed]

5239. RE: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 02:34:18 UTC
From: Jim Chaggaris
Topic: 5237 Message: 5239

Don,

I usually replace old carbon comp resistors with new carbon comp resistors. Call me a purist but I like to keep things as original as possible. I did just that with a Galaxy GT-550 and GT-550A where the 1W, 2W and some 1/2W carbon comp resistors were reading high. Mouser sells them (Ohmite) as does Just Radios and other distributors.

Best Regards,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don Cunningham
Sent: Monday, April 18, 2011 9:06 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Garey,
You bring up a REALLY good point that bears repeating occasionally. These old rigs are NOT plug and play, they WILL need some care and feeding. It is great that we are cultivating a new crop of enthusiasts, but they didn't go through the times we did when these were fairly new rigs. Even then, they needed maintenance often, in my experience. Of course, I was running them HARD on RTTY, but I went through some cathode resistors and other sundry parts, hi. Now they need some fairly major surgery to make them resonably reliable.

One question, what is your recommendation when we need to replace the cathode resistors and other carbon composition resistors in these rigs. My old stash of 15 ohm resistors have drifted up. I realize that I bought them in the mid 1970's from my favorite surplus store, so they are OLD, and it's time. I need to replace the ones in my rigs as I go through them and am confused by the "new" nomenclature of ceramic and such resistors. I'd like to do it once and use them for a few years, hi. I also have some needed in my "Brand X" 30L1 amp that I need to replace (10 ohm 1 or 2 watt in the HV supply) and the cathode resistors.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5240. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 02:49:43 UTC
From: Don Cunningham
Topic: 5237 Message: 5240

Well, that's probably a good suggestion, Jim. If they last another 30 years, I likely won't care and the next owner can decide it, hi. However, if there is a good replacement, I might go for it on the rigs I use a lot and not have to worry about it. I'll check out Mouser's Ohmite selection. That's a pretty good brand. Thanks for the tip.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5241. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:15:44 UTC
From: Garey Barrell
Topic: 5237 Message: 5241

Hi Don -

Yeah, I beat mine up on autostart rtty too.... I had three pairs that ran 24/7 based around 14.075
MHz. Each transmitter had a fan on the back of the PA cage, and they would often run 30 minutes or
more at full power. Of course finals were about $3 each... :-)

I like to use the ceramic composition resistors from Ohmite. Their OX and OY series are about as
close as we can come to non-inductive, carbon comp resistors today. You don't want carbon or metal
film as they don't handle surge current very well. I have heard rumblings of resistors burning up,
either wirewound or metal film, but I suspect metal films were the culprits.

OH by the way, the ONLY 'failure' I had in about five-six years of this kind of service was an open
filament on a 12BY7.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
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> 73,
> Don, WB5HAK

>
>

5242. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:01:24 UTC
From: Garey Barrell
Topic: 5237 Message: 5242

Hi Don -

Yeah, I beat mine up on autostart rtty too.... I had three pairs that ran 24/7 based around 14.075 MHz. Each transmitter had a fan on the back of the PA cage, and they would often run 30 minutes or more at full power. Of course finals were about $3 each... :-)

I like to use the ceramic composition resistors from Ohmite. Their OX and OY series are about as close as we can come to non-inductive, carbon comp resistors today. You don't want carbon or metal film as they don't handle surge current very well. I have heard rumblings of resistors burning up, either wirewound or metal film, but I suspect metal films were the culprits.

OH by the way, the ONLY 'failure' I had in about five-six years of this kind of service was an open filament on a 12BY7.

73, Garey - K4OAH
Glen Allen, VA

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> 73,
> Don, WB5HAK
>
>

5243. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:05:37 UTC
From: lee
Topic: 5237 Message: 5243

Ohmite OX and OY resistors work well here.
Lee, w0vt

One question, what is your recommendation when we need to replace the cathode resistors and other carbon composition resistors in these rigs. My old stash of 15 ohm resistors have drifted up. I realize that I bought them in the mid 1970's from my favorite surplus store, so they are OLD, and it's time. I need to replace the ones in my rigs as I go through them and am confused by the "new" nomenclature of ceramic and such resistors. I'd like to do it once and use them for a few years, hi. I also have some needed in my "Brand X" 30L1 amp that I need to replace (10 ohm 1 or 2 watt in the HV supply) and the cathode resistors.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5244. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:23:43 UTC
From: Richard Knoppow
Topic: 5235 Message: 5244

----- Original Message -----
From: "Wayne Skiba" <trapp7318@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 18, 2011 7:09 PM
Subject: Re: [DrakeRadio] Re: Tr4 Problems

Gary:
Thank you for the information, the guy I bought this station
from told me that the ac4 was completly rebuilt by Jeff
Covelli in 2008, as a matter of fact there is a sticky note
on the back of the ac4 that says new ac4 boards on 06/16/08,
and the TR4 was aligned.
He also said that he did not use it much as it was sitting
on a shelf with the ms4,ac4 and the D104 Silver Eagle mic.
for the past two years.
From that info I really did not expect any trouble? I just
thought that I accidently over drove the finals and they
drew too much current and I blew the 5 amp fuse.
Well maybe I have to go back to the drawing board.
Thank you
Wayne

It would be interesting to see what failed. If the bias
supply failed it should be obvious when measuring the
voltage with the supply disconnected from the transmitter.
Then the question is what causedit to fail. Its a very
simple supply. The filter caps are the most obvious suspects
but it could be anyhing else in the circuit. I should point
out that the rebuilding kit does not change the origina
circuit, it only replaces the caps and rectifier. Real
protection would need something more sophisticated such as a
crowbar that would shut down the HV if the bias dropped too
much. Loss of bias in any circuit will kill it.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5245. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:09:36 UTC
From: Garey Barrell
Topic: 5235 Message: 5245

Wayne -

OK, that's more information. I'd be willing to bet that it was loss of
BIAS that caused your problem. Having the PLATE meter suddenly soar and
peg is classic BIAS loss.

You can run the AC-4 without the transceiver by shorting Pins 1 and 2 of
the Jones connector. Carefully, as it will have 120 VAC on any jumper,
plus the 300 and 700 VDC busses are HOT.

You should get about 750 VDC, 300 VDC and ~50 - 100 VDC negative
variable with no loads. There's an article at

<http://www.wb4hfn.com/DRAKE/DrakeArticles/TechTips/PowerSupplyTroubleshooting.htm>

I'd check the components in the PA cage under the chassis, it's possible
that the overcurrent developed a shorted turn in the CATHODE RFC, smoked
one or more 15 ohm Cathode resistors, or ... With 'flashing lights'
under there it shouldn't be hard to find 'what' blew!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Wayne Skiba wrote:
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> --- On Mon, 4/18/11, Garey Barrell<k4oah@...> wrote:

>
>
> From: Garey Barrell<k4oah@...>
> Subject: Re: [DrakeRadio] Re: Tr4 Problems
> To: DrakeRadio@yahoogroups.com
> Date: Monday, April 18, 2011, 8:42 PM
>
>
>
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manual, and everything was fine, I started the procedure to tune up on 80 meters with the

dummy load I moved the function switch to the X-CW position and so far so good, and the plate amps were moving up the scale slightly, and when I went to peak the rf tune control for maxium plate current, the needle was pinned against the other side of the meter and a loud whistling came from the speaker, and then just darkness.
>> I checked the fuse in the ac4 and found that it had blown, I had put another 5 amp 250volt fuse in and I seen a bright light under the power amplifier cage and the second fuse blew, and I smelled like something was burnt. I unplugged the power supply and took off the botton cover and noticed that a small 1/2 resistor was seared under the power amplifier cage. I put the bottom cover back on and put in another fuse and turned the tr4 on again and noticed a bright light coming from the bottom of the p/a cage again and I decided to shut her down and ask for help.
>> So please let me know how to fix this problem as now I am afraid to turn the tr4 on even just to listen, as it seems to keep blowing fusues and a strange light comes on under the pa cage just before the fuse blows.
>> Thank you
>> Wayne
>>
>>

5246. RE: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:10:22 UTC
From: Jim Chaggaris
Topic: 5237 Message: 5246

I looked at a lot of places. I also bought some so called NOS off of Ebay with mixed results. I even bought some NOS Allen Bradley resistors from Surplus Sales of NE but they were reading high. I complained and they replaced them with ones that were within tolerance (I'm glad they measured them prior to shipping). Antique Electronic Supply has them as well but has limited selection of values and wattage.

Best Regards,

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Don Cunningham
Sent: Monday, April 18, 2011 9:50 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Well, that's probably a good suggestion, Jim. If they last another 30 years, I likely won't care and the next owner can decide it, hi. However, if there is a good replacement, I might go for it on the rigs I use a lot and not have to worry about it. I'll check out Mouser's Ohmite selection. That's a pretty good brand. Thanks for the tip.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5247. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:16:02 UTC
From: Richard Knoppow
Topic: 5237 Message: 5247

----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 18, 2011 7:06 PM
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

> Garey,
> You bring up a REALLY good point that bears repeating
> occasionally. These old rigs are NOT plug and play, they
> WILL need some care and feeding. It is great that we are
> cultivating a new crop of enthusiasts, but they didn't go
> through the times we did when these were fairly new rigs.
> Even then, they needed maintenance often, in my
> experience. Of course, I was running them HARD on RTTY,
> but I went through some cathode resistors and other sundry
> parts, hi. Now they need some fairly major surgery to
> make them resonably reliable.
>
> One question, what is your recommendation when we need to
> replace the cathode resistors and other carbon composition
> resistors in these rigs. My old stash of 15 ohm resistors
> have drifted up. I realize that I bought them in the mid
> 1970's from my favorite surplus store, so they are OLD,
> and it's time. I need to replace the ones in my rigs as I
> go through them and am confused by the "new" nomenclature
> of ceramic and such resistors. I'd like to do it once and
> use them for a few years, hi. I also have some needed in
> my "Brand X" 30L1 amp that I need to replace (10 ohm 1 or
> 2 watt in the HV supply) and the cathode resistors.
> 73,
> Don, WB5HAK

I've found that the drift of carbon composition resistors seems to depend a lot on the make and value. The cathode resistors in my T-4XB were of two different types, one had a seamless case, I think probaby Ohmite, the other had a seam around the long way. The seamless one was within specs, the one with the seam was very far off, maybe 50% or more. I've also found that very high value resistors tend to drift more than low value ones and do NOT always drift up. Heat seems to be the enemy; resistors subject to a lot of heat, either internal or extermal, seem to drift a lot. Also, low power rating drifts more than higher rating, that is, you will find more 1/4 or 1/2 watt resistors off than 2

watt providing the 2 watt ones have not been dissipating close to their limit.
The element of carbon composition resistors is made of a mixture of carbon particles in an insulating carrier. Evidently, as they are heated, or perhaps even just with time, some of the contacts between the carbon particles become poor so the resistance goes up. In some types the head of soldering is enough to move the resistor beyond its tolerance. Not all brands were made the same way and not all are the same in ageing or resistance to the effects of heat. Back when carbon comp reistors were the mainstay of the industry the ones with the best reputation were Ohmite and Allen-Bradley molded ones.
Film resistors, which do not have an intermediate insulater, do not suffer from this effect, both carbon film and metallic film resistors are very stable and most will take tremendous power overload without changing value. Composition resistors have two virtues: one is that they do not go open unless seriously overloaded (burned out) and the other is that high resistance values can be made with low residual reactance. The main source of failure of film and wire wound resistors is at the connection of the terminals to the resistance element. There are a couple of different ways of connecting, probably the most reliable are properly made conductive plastic (epoxy) at the ends. End caps unless swaged perfectly can develop oxidation which will cause them to go open. The same with the welded terminations of wire wound resistors, the welds can oxidize causing the resistor to go open. Unless either type is absolutely fried the element termination is the usual cause of failure.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5248. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:29:33 UTC
From: lee
Topic: 5235 Message: 5248

Who made the replacement AC-4 boards? The Heathkit Shop calls his AC-4R boards. Then too, The Heathkit Shop sells the plain board without parts or a board with all the parts. Even if it was a Heathkit Shop board, did the refurbisher install his own parts which could have been inferior?

Lee, w0vt

Subject: Re: [DrakeRadio] Re: Tr4 Problems

Gary:
Thank you for the information, the guy I bought this station from told me that the ac4 was completly rebuilt by Jeff Covelli in 2008, as a matter of fact there is a sticky note on the back of the ac4 that says new ac4 boards on 06/16/08, and the TR4 was aligned.
He also said that he did not use it much as it was sitting on a shelf with the ms4,ac4 and the D104 Silver Eagle mic. for the past two years.
From that info I really did not expect any trouble? I just thought that I accidently over drove the finals and they drew too much current and I blew the 5 amp fuse.
Well maybe I have to go back to the drawing board.
Thank you
Wayne

It would be interesting to see what failed. If the bias supply failed it should be obvious when measuring the voltage with the supply disconnected from the transmitter. Then the question is what causedit to fail. Its a very simple supply. The filter caps are the most obvious suspects but it could be anyhing else in the circuit. I should point out that the rebuilding kit does not change the origina circuit, it only replaces the caps and rectifier. Real protection would need something more sophisticated such as a crowbar that would shut down the HV if the bias dropped too much. Loss of bias in any circuit will kill it.

--
Richard Knoppow
Los Angeles
WB6KBL
mailto:dickburk%40ix.netcom.com

[Non-text portions of this message have been removed]

5249. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:34:02 UTC
From: lee
Topic: 5237 Message: 5249

I would never use old NOS carbon resistors when replacing those in a Drake. The OX and OY resistors from Ohmite work great, are new, are inexpensive and are “right on” the resistance value specification . They are usually matched in value too with better tolerance specs.
Lee, w0vt

[Non-text portions of this message have been removed]

5250. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:39:23 UTC
From: Wayne Skiba
Topic: 5235 Message: 5250

Lee:
Good question, I don't know, Jeff Covelli did the work on the tr4 and his note was that he replaced ac4 boards with a dte of 06/16/08.
Wayne

--- On Mon, 4/18/11, lee <pulsarxp@...> wrote:

From: lee <pulsarxp@...>
Subject: Re: [DrakeRadio] Re: Tr4 Problems
To: DrakeRadio@yahoogroups.com
Date: Monday, April 18, 2011, 10:29 PM

Who made the replacement AC-4 boards? The Heathkit Shop calls his AC-4R boards. Then too, The Heathkit Shop sells the plain board without parts or a board with all the parts. Even if it was a Heathkit Shop board, did the refurbisher install his own parts which could have been inferior?

Lee, w0vt

Subject: Re: [DrakeRadio] Re: Tr4 Problems

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protection would need something more sophisticated such as a
crowbar that would shut down the HV if the bias dropped too

much. Loss of bias in any circuit will kill it.

--
Richard Knoppow
Los Angeles
WB6KBL
mailto:dickburk%40ix.netcom.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5251. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:28:00 UTC
From: Paul Kraemer
Topic: 5237 Message: 5251

Don
Metal oxide is the sensible replacement.
Any old carbon comp reistor probably isn't close to the value it should be anyway. Any new carbon comp resistor is EXPENSIVE. I avoid both.
Metal oxide are rated for RF service and to get one close to the same physical size as the old carbon comp you will be up grading your wattage too.
Carbon film are also ok to use. I just think the metal oxide are a bit heavier duty.
Do not use metal film unless that is what is being replaced.
IMHO
Paul K0UYA
----- Original Message -----
From: "Don Cunningham" <donc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 18, 2011 9:06 PM
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

> Garey,
> You bring up a REALLY good point that bears repeating occasionally. These
> old rigs are NOT plug and play, they WILL need some care and feeding. It
> is great that we are cultivating a new crop of enthusiasts, but they
> didn't go through the times we did when these were fairly new rigs. Even
> then, they needed maintenance often, in my experience. Of course, I was
> running them HARD on RTTY, but I went through some cathode resistors and
> other sundry parts, hi. Now they need some fairly major surgery to make
> them resonably reliable.
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> One question, what is your recommendation when we need to replace the
> cathode resistors and other carbon composition resistors in these rigs.
> My old stash of 15 ohm resistors have drifted up. I realize that I bought
> them in the mid 1970's from my favorite surplus store, so they are OLD,
> and it's time. I need to replace the ones in my rigs as I go through them
> and am confused by the "new" nomenclature of ceramic and such resistors.
> I'd like to do it once and use them for a few years, hi. I also have some
> needed in my "Brand X" 30L1 amp that I need to replace (10 ohm 1 or 2 watt
> in the HV supply) and the cathode resistors.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5252. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:32:04 UTC
From: Richard Knoppow
Topic: 5237 Message: 5252

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, April 18, 2011 8:01 PM
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

> Hi Don -
>
> Yeah, I beat mine up on autostart rtty too.... I had
> three pairs that
> ran 24/7 based around 14.075 MHz. Each transmitter had a
> fan on the
> back of the PA cage, and they would often run 30 minutes
> or more at full
> power. Of course finals were about $3 each... :-)
>
> I like to use the ceramic composition resistors from
> Ohmite. Their OX
> and OY series are about as close as we can come to
> non-inductive, carbon
> comp resistors today. You don't want carbon or metal film
> as they don't
> handle surge current very well. I have heard rumblings of
> resistors
> burning up, either wirewound or metal film, but I suspect
> metal films
> were the culprits.
>
> OH by the way, the ONLY 'failure' I had in about five-six
> years of this
> kind of service was an open filament on a 12BY7.
>
> 73, Garey - K4OAH
> Glen Allen, VA

Back at the resistor factory where I wasted part of my youth we made carbon and metal film resistors exclusively. The carbon film units were mil spec and the metal film were established reliablity having to meet much tighter than mil spec (most went to NASA contractors). All were given a seven times overload test before being adjusted to final value. A bad batch sounded like Chinese firecrackers but the survivors would take it. That is seven times rated power for perhaps thirty seconds.

Very high value, low power, film resistors may have
rather thin coatings and long spirals to obtain the high
resistance. They will have some inductance and may have
enough voltage between the "windings" to arc there but the
voltage would have to be very high. I've measured some
medium value (1 to 20K ohm) half watt carbon film resistors
on a Boonton RX meter and found them to be relatively
non-reactive. I can recheck this to be sure. The RX meter is
an ideal instrument for making this measurement.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5253. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:51:42 UTC
From: lee
Topic: 5235 Message: 5253

For one, you can look at the board and if it came from The Heathkit Shop it will have his company name and lettering printed in white, on the board. That still does not tell you if it has parts on it from The Heathkit Shop. But, if it is not his board, you know none of it came from him. Go to The Heathkit Shop web page: http://www.theheathkitshop.com/ Here you will find pictures of his board. Does yours look like it came from him?

Lee, w0vt

Lee:
Good question, I don't know, Jeff Covelli did the work on the tr4 and his note was that he replaced ac4 boards with a dte of 06/16/08.
Wayne

--- On Mon, 4/18/11, lee <mailto:pulsarxp%40embarqmail.com> wrote:

From: lee <mailto:pulsarxp%40embarqmail.com>
Subject: Re: [DrakeRadio] Re: Tr4 Problems
To: mailto:DrakeRadio%40yahoogroups.com
Date: Monday, April 18, 2011, 10:29 PM

Who made the replacement AC-4 boards? The Heathkit Shop calls his AC-4R boards. Then too, The Heathkit Shop sells the plain board without parts or a board with all the parts. Even if it was a Heathkit Shop board, did the refurbisher install his own parts which could have been inferior?

Lee, w0vt

[Non-text portions of this message have been removed]

5254. TR4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 03:48:56 UTC
From: Paul Kraemer
Topic: 5254 Message: 5254

Not the TR-4 expert here, just sharing my weekend
experiences with a recently acquired TR4-C
It came from a very good home and had been thoroughly maintained by the
original owner.
I got it a part of a complete station and I didn't even intend to keep it,
just wanted the other Drake gear.
I thought before I sold it I at least wanted to check it out.
I used it a couple hours on a few weekiends and it was fantastic except the
power connector to the AC-4 seemed a little iffy. I had to wiggle it a bit
to get the thing to play.
One evening I turned it on and turned my back for an instant. The TR4-C
keyed up, probably mic sitting too close to the speaker tripped the vox.
Problem is it didn't un-key, ran the finals a few seconds at full current
and destroyed them.
Long story (trying to be brief) is that aparrently TR-4 and T4X can and will
key
accidentally or on purpose and if the bias fails for any reason you have
3-mile island event in the rig because the failed bias will prevent the
relay from opening and will off course also destroy the 6JB6
All that ended up that contributed to this fiasco is the power plug pins on
both the TR4-C and mating cable were "sticky" with some film or oxidation
and the bias voltage fell off from the -40 or so it should be.
Since I was now into the radio I deceided to thoroughly check everything
including the already mentioned resistors and electrolytics. Everything was
fine. I have the equipment to measure about any aspect of a component I
desire. The electrolytics test better than new. The cathode resistors were
not fried. They were adequate wattage to
withstand the current. Posiibly in early designs they were not but mine was
a late
build. Maybe someone already replaced them but if they did they were very
good solderers.
Moral---it is the little demons in life that cause the biggest problems.
The TR4-C is playing fine now, with an old mis matched set of finals
(another no no) and all it took was cleaning a connector!
I learned a lot about TR-4's along the way. I love Drake gear, mostly the
receivers, and have had one or the otherof them since the early 60's. The
transmitter problem I experienced is IMHO just poor design. I am an
industrial control designer by profession and that just type behavior won't
cut it there.
Just my sharing an experience
Paul K0UYA
PS I'll replce the 6JB6's as soon as they arrive but keep the used ones for
troubleshooting.

5255. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 04:43:01 UTC
From: M K
Topic: 5237 Message: 5255

I would not use carbon composition resistors for ANYTHING!!!
NOS, New, etc.....just too many problems to be worth dealing with.

On Mon, Apr 18, 2011 at 11:34 PM, lee <pulsarxp@...> wrote:

>
>
> I would never use old NOS carbon resistors when replacing those in a Drake.
> The OX and OY resistors from Ohmite work great, are new, are inexpensive and
> are ?right on? the resistance value specification . They are usually matched
> in value too with better tolerance specs.
> Lee, w0vt
>
>
> [Non-text portions of this message have been removed]
>
>
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[Non-text portions of this message have been removed]

5256. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 05:04:19 UTC
From: lee
Topic: 5237 Message: 5256

No problem with Ohmite OX and OY. They are a ceramic carbon resistor and are VERY stable. Much better then old type carbon resistors. They are today's standard in industry when you want a low inductance resistor. Put them in your Drake and they will outlive you! That is, unless your fry and overload them.

Lee, w0vt

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NOS, New, etc.....just too many problems to be worth dealing with.

On Mon, Apr 18, 2011 at 11:34 PM, lee <pulsarxp@...> wrote:

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> are “right on” the resistance value specification . They are usually
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> Lee, w0vt
>
>

5257. Re: [DrakeRadio] Re: Tr4 Problems - heathkit shop ac4r

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 08:06:02 UTC
From: Kris Merschrod
Topic: 5235 Message: 5257

The AC-4R rebuild is the way to go - I have bought them already assembled because the $10 extra is worth the price of knowing that it was done right! Even though I like kit building, my focus is on the AC-4.

Kris KM2KM

5258. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 12:11:51 UTC
From: Paul Christensen
Topic: 5237 Message: 5258

FWIW - I've been purchasing Ohmite OD/OF series carbon composition resistors (1/4w, 1/2w respectively) through Mouser. However, pricing is a bit steep. About 50-cents ea. for either 1/4w or 1/2w, and [gulp] about $2 ea. for 1-watt. At these prices, it makes sense to use them only where needed and not throughout an entire project.

http://www.ohmite.com/catalog/pdf/little_demon.pdf

In my Drake 1A project, I opted for all carbon film for replacements instead of carbon comp. I must have changed out nearly two-dozen resistors that were either moderately out of tolerance, or in the case of the 33K screen resistors, WAY out of tolerance as they drifted upward to 4X their specified value. The Rx sensitivity was poor. I learned the hard way that screen resistor tolerance can be vitally important to a tube receiver's health.

Paul, W9AC

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Monday, April 18, 2011 11:01 PM
Subject: Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Hi Don -

Yeah, I beat mine up on autostart rtty too.... I had three pairs that ran 24/7 based around 14.075 MHz. Each transmitter had a fan on the back of the PA cage, and they would often run 30 minutes or more at full power. Of course finals were about $3 each... :-)

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OH by the way, the ONLY 'failure' I had in about five-six years of this kind of service was an open filament on a 12BY7.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> You bring up a REALLY good point that bears repeating occasionally. These old rigs are

NOT plug and play, they WILL need some care and feeding. It is great that we are cultivating a new crop of enthusiasts, but they didn't go through the times we did when these were fairly new rigs. Even then, they needed maintenance often, in my experience. Of course, I was running them HARD on RTTY, but I went through some cathode resistors and other sundry parts, hi. Now they need some fairly major surgery to make them resonably reliable.
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> 73,
> Don, WB5HAK
>
>

[Non-text portions of this message have been removed]

5259. Re: [DrakeRadio] Re: Tr4 Problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 13:50:22 UTC
From: Garey Barrell
Topic: 5235 Message: 5259

Wayne -

If Jeff did the work, you can count on it being correct. I don't know for certain if he uses the AC-4R 'kit', or buys the boards, or uses another product entirely, but whatever he's done has been done right!

There are several of these going on right now, but a failure that quickly sounds more like a component (bias rectifier?) with a product defect, 'infant mortality' or the old 'bell shaped curve'.

Could be an electrolytic cap, could be a pinched wire, could be a loose Jones connector, etc., etc. Repair plan is to resolve the power supply problem while disconnected from the transceiver, and then resolve the damage to the transceiver (via ohmmeter and visual inspection), and THEN put them together.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Wayne Skiba wrote:
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> Wayne
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> --- On Mon, 4/18/11, lee<pulsarxp@...> wrote:
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> Subject: Re: [DrakeRadio] Re: Tr4 Problems
> To: DrakeRadio@yahoogroups.com
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> Lee, w0vt
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> Subject: Re: [DrakeRadio] Re: Tr4 Problems
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> Thank you
> Wayne
>
> It would be interesting to see what failed. If the bias
> supply failed it should be obvious when measuring the
> voltage with the supply disconnected from the transmitter.
> Then the question is what causedit to fail. Its a very
> simple supply. The filter caps are the most obvious suspects
> but it could be anyhing else in the circuit. I should point
> out that the rebuilding kit does not change the origina
> circuit, it only replaces the caps and rectifier. Real
> protection would need something more sophisticated such as a
> crowbar that would shut down the HV if the bias dropped too
> much. Loss of bias in any circuit will kill it.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> mailto:dickburk%40ix.netcom.com
>
>

5260. Re: [DrakeRadio] AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 14:12:03 UTC
From: Garey Barrell
Topic: 5237 Message: 5260

Richard -

Engineers that I have worked with recommend that carbon or metal film resistors are great for low power, low noise applications, but that they do not handle surge currents well at all. Certainly no where as well as carbon comp. Failures occur at terminations, the 'weakest link'. Inductance only becomes a consideration at extremely high frequencies and very high resistance values, 10M and up.

Metal oxide films are much better with regard to surge currents, and ceramic comps are better still, only exceeded in this regard by wirewound metal cased.

With these products available, I can't see any reason to use obsolete carbon comp resistors, with their drift and noise problems, aside from physical appearance. The antique guys like to use 'Body-End-Dot' resistors too, but the smart ones put a modern resistor either in or under it! Earlier still, resistors were a piece of paper with a pencil mark on it!! :-)

I think the Ohmite OX / OY ceramic composition resistors are the best option for the Cathode resistors in the T-4X(any) transmitters. A two watt ceramic is a little smaller than a 1W CC, is more accurate initially and over time (best 'matching' of parallel tubes), and will withstand heavy current surges in this type of use.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Knoppow wrote:
>
> Back at the resistor factory where I wasted part of my
> youth we made carbon and metal film resistors exclusively.
> The carbon film units were mil spec and the metal film were
> established reliablity having to meet much tighter than mil
> spec (most went to NASA contractors). All were given a seven
> times overload test before being adjusted to final value. A
> bad batch sounded like Chinese firecrackers but the
> survivors would take it. That is seven times rated power for
> perhaps thirty seconds.
> Very high value, low power, film resistors may have
> rather thin coatings and long spirals to obtain the high
> resistance. They will have some inductance and may have

> enough voltage between the "windings" to arc there but the
> voltage would have to be very high. I've measured some
> medium value (1 to 20K ohm) half watt carbon film resistors
> on a Boonton RX meter and found them to be relatively
> non-reactive. I can recheck this to be sure. The RX meter is
> an ideal instrument for making this measurement.
>
>

5261. Re: AC4 Power Supplies, Electrolytics, Resistors, Etc.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 14:12:37 UTC
From: Dave Drake
Topic: 5237 Message: 5261

Highly recommend anyone with a stock AC4, (or ac3 for that matter) to rebuild the power supply as soon as possible. In my case, my AC4 was purchased brand new by me at Dayton in 1979. One of the last made. Even with the high serial number and known easy but regular operating history, the supply is/was still pretty long in the tooth. That's 32 years folks !! I rebuilt the AC4 along with my L4ps at the same time. I've never regretted the expense, since I have a fairly minty TR4C/RV4C investment to protect, and... who wants to buy new 3-500's if you can prevent it !!??.

If you also go through your transceiver, receiver, transmitters and look for any and all electrolytics, I also suggest its time to replace them as well. Check the cathode and plate resistors too. Its very easy for those to get out of spec after 30-40 years of use. Check all grounds, clean corrosion around any ground tabs.

All those things are necessary to enjoy your radios for years to come. There's a lot of info available on the web to help anyone wanting to refurb their radios. www.wb4hfn.com is a good resource, just click on the "drake" tab. Also google up the Drake Museum site. And, you can always visit the many help groups like this one.

Complete power supply board kits can be had from the "heathkit shop" as well as transformers, boards, soft start, soft key and other parts from "harbach electronics" on the web.

73's
Dave
Wd9cmd

[Non-text portions of this message have been removed]

5262. Re: File - TR4 Problem Fixed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 16:23:45 UTC
From: Wayne Skiba
Topic: 5262 Message: 5262

Hi Everyone:
Thank you everyone who responded to my requests for help on my tr4, I went out and purchased some 68 ohm resistors and found the culprit that was blowing my fusues in the ac4 a small 1/2 watt 68 ohm resistor had blown, when I took it out of circuit it actually broke up in my hand, and when I soldered the new resistor in and turned 'er up no problem,she turned up per specs with no fuse blowing or smoke.I owe you guys
a great thank you for pointing me in the right direction and I saved all of your comments in case I need to do it again in the future.
 Oh by the way I do have an extra tr4 still for sale with ms4 and ac4 power supply for sale and D104 silver eagle mic that I selling for $425.00 shipped to CONUS.
Thank you again
Wayne

[Non-text portions of this message have been removed]

5263. Re: [DrakeRadio] Re: File - TR4 Problem Fixed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 17:12:36 UTC
From: Garey Barrell
Topic: 5262 Message: 5263

Wayne -

I assume you mean a 68 ohm resistor in the PA cage under the chassis. That's a Screen decoupling resistor. It _MAY_ indicate that a tube developed an internal short, a 'flashover' that cleared itself. In any event, it's possible that one tube is pulling less than it's 1/3 share of the total plate current, thereby overloading the other two. It would be a good idea to measure the Cathode voltage across each of the 15 ohm resistors to verify that each has about the same voltage across it.

Glad that there were no more difficult to replace components damaged.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Wayne Skiba wrote:
> Hi Everyone:
> Thank you everyone who responded to my requests for help on my tr4, I went out and purchased some 68 ohm resistors and found the culprit that was blowing my fusues in the ac4 a small 1/2 watt 68 ohm resistor had blown, when I took it out of circuit it actually broke up in my hand, and when I soldered the new resistor in and turned 'er up no problem,she turned up per specs with no fuse blowing or smoke.I owe you guys
> a great thank you for pointing me in the right direction and I saved all of your comments in case I need to do it again in the future.
> Oh by the way I do have an extra tr4 still for sale with ms4 and ac4 power supply for sale
> and D104 silver eagle mic that I selling for $425.00 shipped to CONUS.
> Thank you again
> Wayne
>
>
>

5264. Re: [DrakeRadio] Re: File - TR4 Problem Fixed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 19:27:38 UTC
From: bobsalmon@juno.com
Topic: 5262 Message: 5264

Is this the same one that you were trying to sell this past weekend?
I would check the finals like Garey had mentioned. One has to be working harder than the other one.

Did you try USB on 20 or 15m? How is the output via a power meter? Try getting a signal report and sound quality check as well. The receiving station may hear ripple, etc...
Let us know.

Bob N3JQD

_____
Obama Urges Refinancing
If you owe under $729k you probably qualify for Obama's Refi Programs
http://thirdpartyoffers.juno.com/TGL3141/4dade2a26555b3a930fst06vuc

5265. Re: [DrakeRadio] Re: File - TR4 Problem Fixed!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-19 21:00:08 UTC
From: Wayne Skiba
Topic: 5262 Message: 5265

Hi Bob:
No, this is not the one that I am selling, the one that I am selling is a station I bought a couple of months ago and it works fine and I need to sell it as we are moving to a smaller place and I just do not have the room to keep it, as I already have three tr4 stations, two when I sell this one.

Wayne
--- On Tue, 4/19/11, bobsalmon@... <bobsalmon@...> wrote:

From: bobsalmon@... <bobsalmon@...>
Subject: Re: [DrakeRadio] Re: File - TR4 Problem Fixed!
To: DrakeRadio@yahoogroups.com
Cc: DrakeRadio@yahoogroups.com
Date: Tuesday, April 19, 2011, 2:27 PM

Is this the same one that you were trying to sell this past weekend?
I would check the finals like Garey had mentioned. One has to be working harder than the other one.

Did you try USB on 20 or 15m? How is the output via a power meter? Try getting a signal report and sound quality check as well. The receiving station may hear ripple, etc...
Let us know.

Bob N3JQD

_____
Obama Urges Refinancing
If you owe under $729k you probably qualify for Obama's Refi Programs
http://thirdpartyoffers.juno.com/TGL3141/4dade2a26555b3a930fst06vuc

---

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5266. Drake TR4Cw with Collins 30L-1 linear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-20 16:40:36 UTC
From: billykatzz
Topic: 5266 Message: 5266

Well, guys, a Collins 30L-1 was up for sale in my neighborhood and I couldn't pass it up. It looks in very good-to-excellent condition and is currently wired for 115V. I think this may be a good rig to allow me to dip my toes into a little QRO.

Are there any considerations I should have in regard to hooking it up and operating it with my TR-4Cw? Thanks in advance for your advice.

Bill in Pasadena
NK6Q

5267. Re: [DrakeRadio] Drake TR4Cw with Collins 30L-1 linear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-20 17:29:22 UTC
From: Paul Kraemer
Topic: 5266 Message: 5267

Yes, reduce the power of the TR-4 to about half or third what it normally runs.
Otherwise---bye bye 30L-1
Paul K0UYA
----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, April 20, 2011 11:40 AM
Subject: [DrakeRadio] Drake TR4Cw with Collins 30L-1 linear

> Well, guys, a Collins 30L-1 was up for sale in my neighborhood and I
> couldn't pass it up. It looks in very good-to-excellent condition and is
> currently wired for 115V. I think this may be a good rig to allow me to
> dip my toes into a little QRO.
>
> Are there any considerations I should have in regard to hooking it up and
> operating it with my TR-4Cw? Thanks in advance for your advice.
>
> Bill in Pasadena
> NK6Q
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

5268. WTB: LC-2-TR Speech Processor by DX Engineering

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 13:34:07 UTC
From: ditchplainsdude
Topic: 5268 Message: 5268

Brethren!

Long term listener, First time caller...

I am searching for and looking to buy the LC-2-TR Speech Processor manufactured by DX Engineering (then on East Walnut in Pasadena, CA)for my TR4-CW. This device is suitable, to my understanding, for the TR-3 & TR-4C series.

All comments welcome.

Reagrds to all,

Peter
N1PH

5269. Re: File - Price reduced on my TR4 station!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 13:50:52 UTC
From: Wayne Skiba
Topic: 5269 Message: 5269

Hi Everyone:
I have reduced the price on my TR4 station to $425.00 shipped in CONUS, it includes the TR4, MS4 and AC4 with the D-104 desk mike all in excellent condition. Pictures providied upon request.
Thank you for looking
Wayne

[Non-text portions of this message have been removed]

5270. T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 15:23:50 UTC
From: Howard Traxler
Topic: 5270 Message: 5270

I have some Drake 4 series transmitters and have been using a D-104 mic for years. I'm thinking of getting a new mic and wondering what impedance I should be looking at. Thinking particularly of the Heil mics.

Thanks, anybody.

Howard, WA9RYF

[Non-text portions of this message have been removed]

5271. Re: [DrakeRadio] T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 15:45:13 UTC
From: Dennis Weal
Topic: 5270 Message: 5271

High impedance is the proper match. Above 10K ohms, Crystal, ceramic or dynamic. the D-104 element is good without the amplifier.

Denny
W4EAL

----- Original Message -----
From: Howard Traxler
Sent: 04/21/11 11:23 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] T-4X or other, mic impedance

I have some Drake 4 series transmitters and have been using a D-104 mic for years. I'm thinking of getting a new mic and wondering what impedance I should be looking at. Thinking particularly of the Heil mics.

Thanks, anybody.

Howard, WA9RYF

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5272. Re: [DrakeRadio] T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 17:22:14 UTC
From: Don Cunningham
Topic: 5270 Message: 5272

Howard,
I have a Heil Goldline that I got with a Collins S Line (same mic impedance as the old Drakes) with the impedance transformer in the mic. I haven't used it much, so hard to tell if I'll like it, but it sure looks nice, hi. Point is, if you like the Heil line, they do sell a transformer to be used with them to transform them to high impedance and should be fine. Heil microphones DO emphasize the low portion of the audio spectrum, so you may get reports that you have "too many lows" in your signal, I am not sure about that. On my "modern" rigs, I always cut the lows to get people to like the audio. Just some thoughts. The D-104's are nice, when working, but the elements are near unobtanium, and the replacements from Mouser (Kobitone) don't work well for all. Hope that helps, Howard.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5273. Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 20:11:20 UTC
From: w5rkl
Topic: 5273 Message: 5273

I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just received has a warped plastic dial I would like to replace. If anyone has ever flattened a warped dial, how did you do it?

73s
Mike
W5RKL

5274. Re: [DrakeRadio] Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 20:26:17 UTC
From: Ronald Erickson
Topic: 5273 Message: 5274

I do not know if this will work or not but you can put the dial in the sunlight between two sheets of glass that are flat. It would be a cheap try before making a new dial which should be doable if you have the right materials to do it.

73,

Ron, K0IC

On Thu, Apr 21, 2011 at 3:11 PM, w5rkl <w5rkl@...> wrote:

>
>
> I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just
> received has a warped plastic dial I would like to replace. If anyone has
> ever flattened a warped dial, how did you do it?
>
> 73s
> Mike
> W5RKL
>
>
>

--
Ronald D. Erickson, K0IC
712-379-3614
Magic Jack # 712-587-1836
Heartland Hams
Southwest Iowa Amateur Radio Club
Bellevue Amateur Radio Club
ARRL Local Government Liaison
ARRL Public Information Officer
ARRL Technical Specialist
ARRL, the national association for Amateur Radio?
563-263-3097
ronalderickson777@...
10-X #12938 :* EN20iu
ARRL Lifer since 1976
3900 Club #729
Iowa QRP Club #179
QCWA Lifer #30762; Chapters, 25, 123, 210
FCC #PG-17-12556
FISTS CW Club #12484
Straight Key Century Club #2253
30 Meter Digital Group #3932

Breakfast Club via Amateur Radio # 3396 on 03/16/2011
FGBMFI Life Member since 1985
Salvation Army Team Emergency Radio Network member
Pastor license by Universal Life Church, Modesto, CA 10/09/1976
Trying to join the Shenandoah Assembly of God
The Collins Collectors Association #AC07-12075
Courage HANDI-HAM System member
Ex: WN0GDA, WB0GDA, AK0N, AAV7AW
Ex: KMA-AM broadcast engineer 1977-1989.
Ex: SBE Senior Broadcast Engineer #2308 - Radio - AM/FM
IWCC -Clarinda Associate of Arts Degree - 1973
University of Nebraska at Omaha Bachelor of General Studies Degree - 1993
True Full Swedish-American
k0ic@...
www.contactify.com/c521b
Iowa Disabled Lifetime Fisherman until 2032 or so.

[Non-text portions of this message have been removed]

5275. Re: [DrakeRadio] Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 20:31:11 UTC
From: Paul Kraemer
Topic: 5273 Message: 5275

Make a jig that applys even pressure and bake it in a LOW heat oven or under
a heat lamp
By jig I mean piece of metal with hole large enough to clear the hub so you
ar squeezing the plastic uniformly
Paul K0UYA
----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, April 21, 2011 3:11 PM
Subject: [DrakeRadio] Drake R4B or T4XB Plastic dial

> I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just
> received has a warped plastic dial I would like to replace. If anyone has
> ever flattened a warped dial, how did you do it?
>
> 73s
> Mike
> W5RKL
>
>
>
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> Yahoo! Groups Links
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5276. Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 21:24:40 UTC
From: w5rkl
Topic: 5273 Message: 5276

Ron and Paul,

Thanks for your suggestions. I thought of heat and heavy flat surface with the dial sandwiched in between. I'll give the sun a try. It shouldn't take much to make it flat. Unfortunately the sun isn't out and won't be for at least a week. We have rain and T'Storms for the next week. I'm not in a hurry since the dial does rotate okay but I would like it to be flat.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> Make a jig that applys even pressure and bake it in a LOW heat oven or under
> a heat lamp
> By jig I mean piece of metal with hole large enough to clear the hub so you
> ar squeezing the plastic uniformly
> Paul K0UYA
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, April 21, 2011 3:11 PM
> Subject: [DrakeRadio] Drake R4B or T4XB Plastic dial
>
>
> > I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just
> > received has a warped plastic dial I would like to replace. If anyone has
> > ever flattened a warped dial, how did you do it?
> >
> > 73s
> > Mike
> > W5RKL
> >
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> > Yahoo! Groups Links
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5277. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 22:40:08 UTC
From: Don Cunningham
Topic: 5273 Message: 5277

Mike,
I can't let a fellow Okie suffer with a "new to him" R4B like that. Tell you what, I have a NOS dial that I will send you for the beautiful Marauder I see on QRZ.com (JUST KIDDING!!! HI). Is your address on QRZ.com okay?? First of the week, I'll get the dial in the mail. Maybe you can help me some time.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5278. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 22:45:11 UTC
From: Joe
Topic: 5273 Message: 5278

Hey Don...

You ever live in Reno, Nevada?

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Don Cunningham" <donc@...>
Subject: Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

> Mike,
> I can't let a fellow Okie suffer with a "new to him" R4B like that. Tell
> you what, I have a NOS dial that I will send you for the beautiful
> Marauder I see on QRZ.com (JUST KIDDING!!! HI). Is your address on
> QRZ.com okay?? First of the week, I'll get the dial in the mail. Maybe
> you can help me some time.

5279. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 22:52:03 UTC
From: Don Cunningham
Topic: 5273 Message: 5279

No, Sir. Been an Okie and lived here all my life, except a 4 year stint in the Navy in Vietnam and alllll over the Western Pacific, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5280. Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-21 23:02:50 UTC
From: w5rkl
Topic: 5273 Message: 5280

HI Don,

Yes the address is okay. Thank you very much Don, I really appreciate it.

We just had lightning strike the 150 foot tall 60KV power pole about 300 feet from the house. What a "BANG"!! This happens all the time with severe T'storms. The coax feed line had long since been thrown out into the yard and the rigs switched to the dummy load.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Mike,
> I can't let a fellow Okie suffer with a "new to him" R4B like that. Tell you what, I have a NOS dial that I will send you for the beautiful Marauder I see on QRZ.com (JUST KIDDING!!! HI). Is your address on QRZ.com okay?? First of the week, I'll get the dial in the mail. Maybe you can help me some time.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

5281. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 00:05:00 UTC
From: Don Cunningham
Topic: 5273 Message: 5281

Wow, glad you are okay, Mike, but send some of that rain over here to the Duncan/Lawton area, PLEASE!!!!!! We are having wild fires around here like crazy, already burned many thousands of acres out here. It's so bad, I'm not hearing much artillery fire from Ft. Sill this spring, just the minimum to graduate the guys. So far I am lucky, but not sure how long that can hold. Try to straighten out the bend in that dial you have with mild heat some time. Someone else will have the same problem, and their's might be worse. This is the LAST one of these I have seen or heard of.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5282. Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 16:17:13 UTC
From: PaulG
Topic: 5273 Message: 5282

If the dial is in otherwise 'good' condition I would try to straighten it. I have straighten Records (remember them?) with a thick piece of glass on a flat table and letting it sit in the bright sun for the afternoon. Maybe something similar in an oven on 'warm' might work?

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just received has a warped plastic dial I would like to replace. If anyone has ever flattened a warped dial, how did you do it?
>
> 73s
> Mike
> W5RKL
>

5283. Re: [DrakeRadio] T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 16:41:34 UTC
From: Jim Shorney
Topic: 5270 Message: 5283

On Thu, 21 Apr 2011 15:45:13 +0000, Dennis Weal wrote:

>the D-104 element is good without the amplifier.

The D-104 is BEST without the amplifier. Even better with a 470K or higher resistor in series with the element.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5284. Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 18:45:35 UTC
From: Dave Drake
Topic: 5270 Message: 5284

Suggest you will not be satisfied with most any heil dynamic mic with a Drake tube radio. The rigs "like" a mic with about 50k impedance or better, up to say 100k. It takes a minimum of 10k to get the rig going, so to speak. Definitely needs a higher impedance mic to work well. Mics like the Shure 444 (d) set to high or the EV 664 or the D-104 NON-Amplified mics work great. The D-104 works even better with a resistor in series with the mic line to soften the audio a bit. A D-104 with the preamp, should be avoided. Its use can lead to problems with the agc circuit.

I use a EV 664d wired to high impedance with my TR4C, with exc. results. Gain set at about 10 oclock. Same setting for a D-104 or 444 (approximately). Use that for reference.

Heil mic's, in general, are not very high output mics. They work great with Yaesu's and Kenwoods, and you need the IC series with most Icoms. If you do use a heil, and get the little transformer, you'll need to up the gain on the rig considerably to use it. And, your results may not be as favorable as the marketing leads you to believe. Yes, they sure look good. If you want to experiment, I'd buy a used one, wire it up and see if it works for your voice. If you want a transformer, email me off list and I can send you one that is excess to my needs.

Just keep in mind, Bob Heil did not design his mic line for these older tube rigs. He tried to hit the mainstream ham market, with Yaesu and Kenwood being the main focus.

Good luck,
David
Wd9cmd

[Non-text portions of this message have been removed]

5285. Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 18:45:45 UTC
From: w5rkl
Topic: 5273 Message: 5285

You mean "Vinyl" records? Yes I remember those well since I grew up before 8 track and cassette players were a gleam in the engineer's head!

Everyone listened to "AM" radio and music albums was sold on 33 1/3 rpm Vinyl records and the individual hits were sold on 45s!

Most stereo systems were large pieces of "furniture" with lift top lids. My parents bought a Sears AM (mono) and FM stereo system which included a 33 1/3, 45, and 78 speed turn table. "78 speed", who listens to 78 speed? The old records in the 30s and 40 could be played at 78 speed!

The tuning indicator for the receiver was a "1626" eye tube. The eye closed as the station was tuned properly. That was in the early 60s. We didn't have color television until mid 60s. I remember watching "The Big Picture" and "The Cisco Kid" on Saturday mornings on a 20" Black and White television, all tubes no solid state devices. Those were the days. My mother's favorite program was Bonanza on Sunday evenings and Red Skelton on Tuesday evenings, "Brought to you in Living Color on NBC!"... Red Skelton initially ran on CBS but later changed to NBC.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "PaulG" <pgerhardt@...> wrote:
>
> If the dial is in otherwise 'good' condition I would try to straighten it. I have straighten Records (remember them?) with a thick piece of glass on a flat table and letting it sit in the bright sun for the afternoon. Maybe something similar in an oven on 'warm' might work?
> >
> >
> > --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just received has a warped plastic dial I would like to replace. If anyone has ever flattened a warped dial, how did you do it?
> > >
> > > 73s
> > > Mike
> > > W5RKL
> > >
> >

5286. Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 18:50:00 UTC
From: w5rkl
Topic: 5270 Message: 5286

I use an old non-amplified Turner desk microphone I paid $10 for at a hamfest. I replaced the element with a Mouser 25K crystal element, works very well with my T4XB transmitter. I also use a non-amplified D-104 with the original crystal element with my C-Line.

The D-104 does a nice job with tube rigs. I use a non-amplified D-104 with an Heathkit HW-101 and it does a great job. I tried the amplified D-104 with my 1962 Heathkit Marauder, didn't work and audio reports were, "you sound muffled". Changed to the non-amplified D-104 and reports were very good audio.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Dave Drake" <dave.drake@...> wrote:
>
> Suggest you will not be satisfied with most any heil dynamic mic with a Drake tube radio. The rigs "like" a mic with about 50k impedance or better, up to say 100k. It takes a minimum of 10k to get the rig going, so to speak. Definitely needs a higher impedance mic to work well. Mics like the Shure 444 (d) set to high or the EV 664 or the D-104 NON-Amplified mics work great. The D-104 works even better with a resistor in series with the mic line to soften the audio a bit. A D-104 with the preamp, should be avoided. Its use can lead to problems with the agc circuit.
>
> I use a EV 664d wired to high impedance with my TR4C, with exc. results. Gain set at about 10 oclock. Same setting for a D-104 or 444 (approximately). Use that for reference.
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> Heil mic's, in general, are not very high output mics. They work great with Yaesu's and Kenwoods, and you need the IC series with most Icoms. If you do use a heil, and get the little transformer, you'll need to up the gain on the rig considerably to use it. And, your results may not be as favorable as the marketing leads you to believe. Yes, they sure look good. If you want to experiment, I'd buy a used one, wire it up and see if it works for your voice. If you want a transformer, email me off list and I can send you one that is excess to my needs.
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> Just keep in mind, Bob Heil did not design his mic line for these older tube rigs. He tried to hit the mainstream ham market, with Yaesu and Kenwood being the main focus.
>
> Good luck,
> David
> Wd9cmd
>
>
> [Non-text portions of this message have been removed]
>

5287. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 19:16:04 UTC
From: Howard Traxler
Topic: 5270 Message: 5287

Thanks all for your offerrings regarding the mic on the Drake series. I am now using the non-amplified D-104 which I have been using since I had my first Drake back in about 1969. I guess I should probably be a bit more conservative about how I drive it, but most of the time I run the drive all the way up. No one has complained--at least not much. I've never heard me, but I think the D-104 is a bit high pitched and sounds a little harsh. I'd like to try something with a little fuller range to get a more natural sound. Maybe there's some kind of equalizer that can go in line with the mic to make what I'm using sound better.--I like my D-104.

What I'm really looking for is a boom. Using a desk stand gets in the way of my computer keyboard and Braille display. So I need to have the mic on some type of a bar that comes in from the side. I'll keep looking.

73
Howard, WA9RYF
----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Friday, April 22, 2011 1:50 PM
Subject: [DrakeRadio] Re: T-4X or other, mic impedance

I use an old non-amplified Turner desk microphone I paid $10 for at a hamfest. I replaced the element with a Mouser 25K crystal element, works very well with my T4XB transmitter. I also use a non-amplified D-104 with the original crystal element with my C-Line.

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73s
Mike
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--- In DrakeRadio@yahoogroups.com, "Dave Drake" <dave.drake@...> wrote:
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> I use a EV 664d wired to high impedance with my TR4C, with exc. results. Gain set at about 10 oclock. Same setting for a D-104 or 444 (approximately). Use that for reference.

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> Heil mic's, in general, are not very high output mics. They work great with Yaesu's and Kenwoods, and you need the IC series with most Icoms. If you do use a heil, and get the little transformer, you'll need to up the gain on the rig considerably to use it. And, your results may not be as favorable as the marketing leads you to believe. Yes, they sure look good. If you want to experiment, I'd buy a used one, wire it up and see if it works for your voice. If you want a transformer, email me off list and I can send you one that is excess to my needs.
>
> Just keep in mind, Bob Heil did not design his mic line for these older tube rigs. He tried to hit the mainstream ham market, with Yaesu and Kenwood being the main focus.
>
> Good luck,
> David
> Wd9cmd
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

5288. Re: [DrakeRadio] TR4 Station Further Reduced

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 19:45:12 UTC
From: Wayne Skiba
Topic: 206 Message: 5288

Hi Everyone:
I have further reduced my TR4 with MS4,AC4 and D-104 microphone, as we will be moving shortly and I do not have room for this station at my new qth. This station is in excellent physical and electrical condition, the tr4 was aligned by a well known Drake tech and the ac4 was completly rebuilt by the same Drake tech,
I have further reduced the price to $375.00 shipped to CONUS, for the complete station,you will not be disappointed with this station. I can provide pictures upon request.Thank you for looking
Wayne

--- On Sun, 4/17/11, DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com> wrote:

From: DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] File - Bi-Weekly Statement
To: DrakeRadio@yahoogroups.com
Date: Sunday, April 17, 2011, 2:39 PM

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

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For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

[Non-text portions of this message have been removed]

5289. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 20:13:06 UTC
From: Dennis Weal
Topic: 5273 Message: 5289

Dang Mike you are old!! Hi Hi. I still have a 4 track player I will sell you if you are interested.

Denny

W4eal

----- Original Message -----
From: w5rkl
Sent: 04/22/11 02:45 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

You mean "Vinyl" records? Yes I remember those well since I grew up before 8 track and cassette players were a gleam in the engineer's head!

Everyone listened to "AM" radio and music albums was sold on 33 1/3 rpm Vinyl records and the individual hits were sold on 45s!

Most stereo systems were large pieces of "furniture" with lift top lids. My parents bought a Sears AM (mono) and FM stereo system which included a 33 1/3, 45, and 78 speed turn table. "78 speed", who listens to 78 speed? The old records in the 30s and 40 could be played at 78 speed!

The tuning indicator for the receiver was a "1626" eye tube. The eye closed as the station was tuned properly. That was in the early 60s. We didn't have color television until mid 60s. I remember watching "The Big Picture" and "The Cisco Kid" on Saturday mornings on a 20" Black and White television, all tubes no solid state devices. Those were the days. My mother's favorite program was Bonanza on Sunday evenings and Red Skelton on Tuesday evenings, "Brought to you in Living Color on NBC!"... Red Skelton initially ran on CBS but later changed to NBC.

73s
Mike
W5RKL

--- In DrakeRadio%2540yahoogroups.com , "PaulG" <pgerhardt@...> wrote:
>
> If the dial is in otherwise 'good' condition I would try to straighten it. I have straighten Records (remember them?) with a thick piece of glass on a flat table and letting it sit in the bright sun for the afternoon. Maybe something similar in an oven on 'warm' might work?
> >
> >
> > --- In DrakeRadio%2540yahoogroups.com , "w5rkl" <w5rkl@> wrote:
> > >
> > > I'm looking for a good condition "flat" R4B or T4XB dial. The R4B I just received has a

warped plastic dial I would like to replace. If anyone has ever flattened a warped dial, how did you do it?
> >
> > 73s
> > Mike
> > W5RKL
> >
>

[Non-text portions of this message have been removed]

5290. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 20:23:44 UTC
From: Don Cunningham
Topic: 5273 Message: 5290

That's not old, Dennie. My good friend, Leon, ran one of those in a 1965 GTO and we had a LOT of fun putting the tape back in the cartridges once in a while, hi
73,
Don, WB5HAK.

[Non-text portions of this message have been removed]

5291. Re: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 20:24:31 UTC
From: Don Cunningham
Topic: 5273 Message: 5291

Sorry, mistyped the name, Denny. Still brings back good memories.
73

[Non-text portions of this message have been removed]

5292. Re: Drake R4B or T4XB Plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 21:00:07 UTC
From: w5rkl
Topic: 5273 Message: 5292

I was in high school when the Beatles came to America and performed at "Crosly Field" in Cincinnati Ohio! Not many folks remember Crosly Field. Crosly Field Sun Deck seats cost "50 cents", standing room only cost "75 cents", going to the movies cost "25 cents" and a gallon of gas was less than 25 cents, "Fill it with Ethol!!". Gas stations had attendants that checked your oil, washed your windshield, and pumped your gas.

Enough of that. Old? If you call 62 going on 63 being old then okay, I'm an "old fart"...:)

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Dennis Weal" <w4eal@...> wrote:
>
> Dang Mike you are old!! Hi Hi. I still have a 4 track player I will sell you if you are interested.
>
> Denny
>
> W4eal
>
> ----- Original Message -----
> From: w5rkl
> Sent: 04/22/11 02:45 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] Re: Drake R4B or T4XB Plastic dial
>
> You mean "Vinyl" records? Yes I remember those well since I grew up before 8 track and cassette players were a gleam in the engineer's head!
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> Everyone listened to "AM" radio and music albums was sold on 33 1/3 rpm Vinyl records and the individual hits were sold on 45s!
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> W5RKL
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> > --- In DrakeRadio%2540yahoogroups.com , "w5rkl" <w5rkl@> wrote:
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> > > Mike
> > > W5RKL
> > >
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

5293. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 22:55:47 UTC
From: Jim Shorney
Topic: 5270 Message: 5293

On Fri, 22 Apr 2011 14:16:04 -0500, Howard Traxler wrote:

>but I think the D-104 is a bit high pitched and sounds a little harsh.

Put a 470K resistor in series with the mic element, that will help. 50K is really low for a D-104, the element likes to look into a really high impedance. You should have plenty of drive left, you cold even go higher than 470K to mellow the sound out even more.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5294. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-22 23:35:10 UTC
From: Jim Wilhite
Topic: 5270 Message: 5294

Sounds like you have a bad element in your D104. There isn't much you can do to change the way it sounds other than change mikes or get a ceramic head for the Astatic. I suggest you look for an EV 664 which many people don't recognize as good mics. I have seen them at hamfests for low cost compared to others.

You need a high impedance mic, brand really doesn't matter but I would look at the specs for several before you start buying. One thing that many overlook are both handheld and base mics use by Motorola, GE and RCA on their 2 way equipment in the 70s and 80s. They are good mics but ugly. I have seen people give them away at hamfest.

Jim/W5JO

From: Howard Traxler <howard@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, April 22, 2011 2:16:04 PM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

Thanks all for your offerrings regarding the mic on the Drake series. I am now using the non-amplified D-104 which I have been using since I had my first Drake back in about 1969. I guess I should probably be a bit more conservative about how I drive it, but most of the time I run the drive all the way up. No one has complained--at least not much. I've never heard me, but I think the D-104 is a bit high pitched and sounds a little harsh. I'd like to try something with a little fuller range to get a more natural sound. Maybe there's some kind of equalizer that can go in line with the mic to make what I'm using sound better.--I like my D-104.

What I'm really looking for is a boom. Using a desk stand gets in the way of my computer keyboard and Braille display. So I need to have the mic on some type of a bar that comes in from the side. I'll keep looking.

73
Howard, WA9RYF
----- Original Message -----
From: w5rkl
To: DrakeRadio@yahoogroups.com
Sent: Friday, April 22, 2011 1:50 PM
Subject: [DrakeRadio] Re: T-4X or other, mic impedance

I use an old non-amplified Turner desk microphone I paid $10 for at a hamfest. I replaced the element with a Mouser 25K crystal element, works very well with my T4XB transmitter. I also use a non-amplified D-104 with the original crystal element with my C-Line.

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> Suggest you will not be satisfied with most any heil dynamic mic with a Drake
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>marketing leads you to believe. Yes, they sure look good. If you want to
>experiment, I'd buy a used one, wire it up and see if it works for your voice.
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>excess to my needs.
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> Just keep in mind, Bob Heil did not design his mic line for these older tube
>rigs. He tried to hit the mainstream ham market, with Yaesu and Kenwood being
>the main focus.
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> Good luck,
> David
> Wd9cmd
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>
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>

[Non-text portions of this message have been removed]

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5295. Re: [DrakeRadio] TR4 Station Further Reduced

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 00:12:26 UTC
From: Lawrence Matheson
Topic: 206 Message: 5295

Wayne,
Does the TR 4 have the noise blanker?

Thanks,

Lawrence, WA4BHK

----- Original Message -----
From: Wayne Skiba
To: DrakeRadio@yahoogroups.com
Sent: Friday, April 22, 2011 3:45 PM
Subject: Re: [DrakeRadio] TR4 Station Further Reduced

Hi Everyone:
I have further reduced my TR4 with MS4,AC4 and D-104 microphone, as we will be moving shortly and I do not have room for this station at my new qth. This station is in excellent physical and electrical condition, the tr4 was aligned by a well known Drake tech and the ac4 was completly rebuilt by the same Drake tech,
I have further reduced the price to $375.00 shipped to CONUS, for the complete station,you will not be disappointed with this station. I can provide pictures upon request.Thank you for looking
Wayne

--- On Sun, 4/17/11, DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com> wrote:

From: DrakeRadio@yahoogroups.com <DrakeRadio@yahoogroups.com>
Subject: [DrakeRadio] File - Bi-Weekly Statement
To: DrakeRadio@yahoogroups.com
Date: Sunday, April 17, 2011, 2:39 PM

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

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73, Garey - K4OAH

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5296. Re: [DrakeRadio] TR4 Station Further Reduced

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 01:03:53 UTC
From: bobsalmon@juno.com
Topic: 206 Message: 5296

Wayne,
Any chance you would like to sell just the TR4? Let me know.
Bob N3JQD

_____
Groupon&#8482 Official Site
1 ridiculously huge coupon a day. Get 50-90% off your city's best!
http://thirdpartyoffers.juno.com/TGL3141/4db225b410ac152947st04vuc

5297. Re: [DrakeRadio] TR4 Station Further Reduced

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 01:06:14 UTC
From: Wayne Skiba
Topic: 206 Message: 5297

Hi:
No, it is the earlier model.
Thank you for looking
Wayne

--- On Fri, 4/22/11, Lawrence Matheson <wa4bhk@...> wrote:

From: Lawrence Matheson <wa4bhk@...>
Subject: Re: [DrakeRadio] TR4 Station Further Reduced
To: DrakeRadio@yahoogroups.com
Date: Friday, April 22, 2011, 7:12 PM

Wayne,
Does the TR 4 have the noise blanker?

Thanks,

Lawrence, WA4BHK

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From: Wayne Skiba
To: DrakeRadio@yahoogroups.com
Sent: Friday, April 22, 2011 3:45 PM
Subject: Re: [DrakeRadio] TR4 Station Further Reduced

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PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND

greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5298. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 01:16:57 UTC
From: bobsalmon@juno.com
Topic: 5270 Message: 5298

I have a D104 (amped) and a Shure 444 for use with my T4X. Every one reports that my signal is strong but the audio is extremely tinny/sharp. i.e. narrow sounding
Does anyone think that if I increase the resistance that would give me a bit more bass/depth? As mentioned earlier in this thread.

Also, I'm still looking for a USB filter for my ailing TR4?

Thank you,
Bob N3JQD

_____
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http://thirdpartyoffers.juno.com/TGL3141/4db228ccd4c0053046st06vuc

5299. Re: [DrakeRadio] Re: File - Price reduced on my TR4 station!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 01:27:44 UTC
From: bobsalmon@juno.com
Topic: 5269 Message: 5299

Hi,
Do you have any pics of the rig itself? Thanks,
Bob N3JQD

_____
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http://thirdpartyoffers.juno.com/TGL3141/4db22b6be1f45536a2st03vuc

5300. Re: [DrakeRadio] Re: File - Price reduced on my TR4 station!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 01:51:32 UTC
From: Wayne Skiba
Topic: 5269 Message: 5300

Hi Bob:
Yes, I do have pics of the rig, but because we are moving very shortly I need to sell this as a complete station, I have absolutly no room at my new qth, and I do not want to move the station there.
Attached are the pics
Thank you for looking
Wayne

--- On Fri, 4/22/11, bobsalmon@juno.com <bobsalmon@...> wrote:

From: bobsalmon@... <bobsalmon@juno.com>
Subject: Re: [DrakeRadio] Re: File - Price reduced on my TR4 station!
To: DrakeRadio@yahoogroups.com
Date: Friday, April 22, 2011, 8:27 PM

Hi,
Do you have any pics of the rig itself? Thanks,
Bob N3JQD

_____
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---

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5301. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 02:30:01 UTC
From: Jim Shorney
Topic: 5270 Message: 5301

I wouldn't think that the Shure would sond tinny. You may need to align the carrier oscillator, or possibly you might have a problem in the mic amp section of the radio. The resistor mod only applies to the non-amped D-104 - the mic element likes to see a very high impedance load. The "amplifier" takes care of this, it's really an impedance matching buffer with some gain. The extra gain is not needed, and the amp is an extra failure point that can easily be removed. And you'll save money on batteries. :)

73

-Jim

On Sat, 23 Apr 2011 01:16:57 GMT, bobsalmon@... wrote:

>I have a D104 (amped) and a Shure 444 for use with my T4X. Every one reports that my signal is strong but the audio is extremely tinny/sharp. i.e. narrow sounding
>Does anyone think that if I increase the resistance that would give me a bit more bass/depth? As mentioned earlier in this thread.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5302. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 02:41:28 UTC
From: Jim Shorney
Topic: 5270 Message: 5302

On Fri, 22 Apr 2011 16:35:10 -0700 (PDT), Jim Wilhite wrote:

>Sounds like you have a bad element in your D104.

Not necessarily. As has already been mentioned, the unbuffered D-104 cartridge needs a high impedance load. The 50K-ish impedance of the Drakes is really too low, and will roll off the low frequency response. There is plenty of documentation on the internet of this effect. The old-timer's trick that I picked up some years ago about putting a 470K (or higher) resistor in series with the element really works. The cartridge still has plenty of output to drive the radio.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5303. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 02:46:54 UTC
From: ALAN PHILLIPS
Topic: 5270 Message: 5303

Been there done that. I put a 700K resistor in series with the hot lead in the bottom of the D104 mic and it sounds great on my TR4. It took away the tinny sound. If you have another receiver to monitor your output that is really helpful when selecting or adding the resistor value.

73 al. kc9ys

From: Jim Shorney <jshorney@inebraska.com>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Fri, April 22, 2011 9:41:28 PM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

On Fri, 22 Apr 2011 16:35:10 -0700 (PDT), Jim Wilhite wrote:

>Sounds like you have a bad element in your D104.

Not necessarily. As has already been mentioned, the unbuffered D-104 cartridge needs a high impedance load. The 50K-ish impedance of the Drakes is really too low, and will roll off the low frequency response. There is plenty of documentation on the internet of this effect. The old-timer's trick that I picked up some years ago about putting a 470K (or higher) resistor in series with the element really works. The cartridge still has plenty of output to drive the radio.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5304. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 03:10:11 UTC
From: Jim Wilhite
Topic: 5270 Message: 5304

470K will flatten the response of the mic but with it or without, the mic should not sound tinny. Of course all we have is a verbal description and I have not heard it. The one thing a D 104 likes is high input impedance. If you have a flat response audio amp then put a 1-4 meg resistor from the grid of the first amp to ground so the mic sees and can respond to high impedance. You may also want or need to add a small cap in parallel, depending on the amp.

The series resistor simply flatens the audio response reducing the bump in the response curve of the D104 therefore if the element is bad it will sound even worse. So if you have a tinny sound with the resistor in series, then you have a bad ememement given the audio chain is operating correctly.

Jim
W5JO

From: Jim Shorney <jshorney@...>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Fri, April 22, 2011 9:41:28 PM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

On Fri, 22 Apr 2011 16:35:10 -0700 (PDT), Jim Wilhite wrote:

>Sounds like you have a bad element in your D104.

Not necessarily. As has already been mentioned, the unbuffered D-104 cartridge needs a high impedance load. The 50K-ish impedance of the Drakes is really too low, and will roll off the low frequency response. There is plenty of documentation on the internet of this effect. The old-timer's trick that I picked up some years ago about putting a 470K (or higher) resistor in series with the element really works. The cartridge still has plenty of output to drive the radio.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney

http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5305. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 03:28:01 UTC
From: Richard Knoppow
Topic: 5270 Message: 5305

----- Original Message -----
From: "Jim Wilhite" <w5jpw@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, April 22, 2011 8:10 PM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

470K will flatten the response of the mic but with it or
without, the mic should
not sound tinny. Of course all we have is a verbal
description and I have not
heard it. The one thing a D 104 likes is high input
impedance. If you have a
flat response audio amp then put a 1-4 meg resistor from the
grid of the first
amp to ground so the mic sees and can respond to high
impedance. You may also
want or need to add a small cap in parallel, depending on
the amp.

The series resistor simply flatens the audio response
reducing the bump in the
response curve of the D104 therefore if the element is bad
it will sound even
worse. So if you have a tinny sound with the resistor in
series, then you have
a bad ememement given the audio chain is operating correctly.

Jim
W5JO

A D-104 should sound bright but not completely lacking
in bass. I am not sure of the input impedance of a TR-4 but
on my R-4XB it sounds fine.
Too low an impedance will cause the low end to roll off
but should not produce a peak. A strong peak sounds more
like mechanical damage of some sort.
Bad crystal elements loose a lot of output or are just
dead. The two enemies of crystals are fracturing, which can
come from very hard mechanical shocks, mostly a problem with
crystal phonograph pickups, or from excessive electrical
drive, mostly problem wtih crystal record cutters. The other
enemy is moisture. The material of which the crystal is made
is delequescent, that is, it absorbs moisture from the air
and becomes mush. Crystal elements of all sorts are
carefully sealed to prevent entry of moisture but sometimes
the seals fail. Another problem is excessive heat. Above

some point the crystals melt and are no longer active. I don't remember the maximum for Rochelle salt but its not much above 100F.
If you measure a crystal element, whatever its application, with an ohm meter it should measure open. It should look like a capacitance. Any resistance indicates the crystal has begun to deteriorate in some way. Fractured or completely melted crystals, whether by heat or moisture, will also measure open so that isnot by itself meaningful. However, if the crystal does not work and is open its bad. If it works but shows resistance on an ohm meter its also bad.
Its also possible for the sound to be distorted if the diaphragm has becom damaged in some way. Most of these units are sealed but someone could still stick a pencil point through the grille and damage it. People do all sorts of odd things.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5306. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 03:45:13 UTC
From: Dan Galligan
Topic: 5270 Message: 5306

My 2¢ worth here. Both of my Drakes, the "B" and the "C" T4-x's really like an Astatic G-Stand, with a 10-D head, more than they do the standard D-104, but they do fairly well with the D-104, too.
I can say this though, adding a Heil Fin, with a Behringer Xenyx sound board, does not give it any better frequency range, than the standard 10-D head does.
Hope this small change info helps a bit.
73,
Dan
W3RXO/W6

5307. Re: Drake TR4Cw with Collins 30L-1 linear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 04:47:37 UTC
From: billykatzz
Topic: 5266 Message: 5307

Do the TR4's have internal relays to handle the connection to the 30L-1 or does it require an external relay?

Bill in Pasadena, NK6Q

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> Yes, reduce the power of the TR-4 to about half or third what it normally
> runs.
> Otherwise---bye bye 30L-1
> Paul K0UYA
> ----- Original Message -----
> From: "billykatzz" <rsilvercat@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, April 20, 2011 11:40 AM
> Subject: [DrakeRadio] Drake TR4Cw with Collins 30L-1 linear
>
>
> > Well, guys, a Collins 30L-1 was up for sale in my neighborhood and I
> > couldn't pass it up. It looks in very good-to-excellent condition and is
> > currently wired for 115V. I think this may be a good rig to allow me to
> > dip my toes into a little QRO.
> >
> > Are there any considerations I should have in regard to hooking it up and
> > operating it with my TR-4Cw? Thanks in advance for your advice.
> >
> > Bill in Pasadena
> > NK6Q
> >
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> > Yahoo! Groups Links
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5308. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 11:54:40 UTC
From: bobsalmon@juno.com
Topic: 5270 Message: 5308

Thank you all.
Richard, thanks for the mic. lesson regarding the xtals. I didn't know about the moisture absorption proble.
But, I used the Shure 444 and the perceived audio by others was the same as what they had heard on the D-"10-4".

I am going to experiment with various resistors and if that doesn't "pan out", then I'll add a cap in parallel.
I will report back with my results.

I "shure" wish that my TR4 was working.

Bob N3JQD

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5309. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 12:46:37 UTC
From: Jim Wilhite
Topic: 5270 Message: 5309

If you are receiving reports that the Shure sounds no different than the Astatic, then find out why first. Those two mics should sound different. You may have issues in the audio section or misalignment of something.

Once that is fixed then you can play with the mics to get the sound "you" want. Everyone has different tastes in audio. To one person a certain combination may sound good but to another it may not so check your radio with an audio generator then work with the mic. Something sounds fishy.

Jim
W5JO

----- Original Message ----
From: "bobsalmon@juno.com" <bobsalmon@...>
To: DrakeRadio@yahoogroups.com
Cc: DrakeRadio@yahoogroups.com
Sent: Sat, April 23, 2011 6:54:40 AM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

Thank you all.
Richard, thanks for the mic. lesson regarding the xtals. I didn't know about the moisture absorption proble.

But, I used the Shure 444 and the perceived audio by others was the same as what they had heard on the D-"10-4".

I am going to experiment with various resistors and if that doesn't "pan out", then I'll add a cap in parallel.
  I will report back with my results.

I "shure" wish that my TR4 was working.

Bob N3JQD

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Yahoo! Groups Links

5310. Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 13:01:55 UTC
From: w5rkl
Topic: 5270 Message: 5310

If the D-104 and/or Shure 444 microphone element(s) is/are found to be bad, a replacement can be obtained from Mouser (25,000 ohms crystal element).

Mouser part number 251M022
Price: $12

I've used this element as a replacement in a Turned non-amplified desk microphone. Works very well with my T4XB.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Jim Wilhite <w5jpw@...> wrote:
>
> If you are receiving reports that the Shure sounds no different than the
> Astatic, then find out why first. Those two mics should sound different. You
> may have issues in the audio section or misalignment of something.
>
>
> Once that is fixed then you can play with the mics to get the sound "you" want.
> Everyone has different tastes in audio.   To one person a certain combination
> may sound good but to another it may not so check your radio with an audio
> generator then work with the mic. Something sounds fishy.
>
> Jim
> W5JO
>
>
>
> ----- Original Message ----
> From: "bobsalmon@..." <bobsalmon@...>
> To: DrakeRadio@yahoogroups.com
> Cc: DrakeRadio@yahoogroups.com
> Sent: Sat, April 23, 2011 6:54:40 AM
> Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance
>
> Thank you all.
> Richard, thanks for the mic. lesson regarding the xtals. I didn't know about
> the moisture absorption proble.
>
> But, I used the Shure 444 and the perceived audio by others was the same as what
> they had heard on the D-"10-4".
>
>
> I am going to experiment with various resistors and if that doesn't "pan out",

> then I'll add a cap in parallel.
> I will report back with my results.
>
> I "shure" wish that my TR4 was working.
>
> Bob N3JQD
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5311. Re: [DrakeRadio] Re: Drake TR4Cw with Collins 30L-1 linear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 15:00:15 UTC
From: Paul Kraemer
Topic: 5266 Message: 5311

You are good to go
The Drake t/r relay connects direct to the 30L-1 RCA connector on the back
Paul K0UYA
----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, April 22, 2011 11:47 PM
Subject: [DrakeRadio] Re: Drake TR4Cw with Collins 30L-1 linear

> Do the TR4's have internal relays to handle the connection to the 30L-1 or
> does it require an external relay?
>
> Bill in Pasadena, NK6Q
>
> --- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>>
>> Yes, reduce the power of the TR-4 to about half or third what it normally
>> runs.
>> Otherwise---bye bye 30L-1
>> Paul K0UYA
>> ----- Original Message -----
>> From: "billykatzz" <rsilvercat@...>
>> To: <DrakeRadio@yahoogroups.com>
>> Sent: Wednesday, April 20, 2011 11:40 AM
>> Subject: [DrakeRadio] Drake TR4Cw with Collins 30L-1 linear
>>
>>
>> > Well, guys, a Collins 30L-1 was up for sale in my neighborhood and I
>> > couldn't pass it up. It looks in very good-to-excellent condition and
>> > is
>> > currently wired for 115V. I think this may be a good rig to allow me
>> > to
>> > dip my toes into a little QRO.
>> >
>> > Are there any considerations I should have in regard to hooking it up
>> > and
>> > operating it with my TR-4Cw? Thanks in advance for your advice.
>> >
>> > Bill in Pasadena
>> > NK6Q
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5312. Re: Drake TR4Cw with Collins 30L-1 linear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 15:46:46 UTC
From: w5rkl
Topic: 5266 Message: 5312

The TR4CW, as well as the other Drake TR3, TR4, TR4C, and T4<any> line of transceivers and transmitters, have internal "N.O." (Normally Open) internal relay terminals wired to the 12 pin power connector pins "5" and "8" to control external devices such as amplifier relays, antenna change over relays, "ON THE AIR" signs, etc. You can see these relay terminals, for example, on page 5-11 in the TR4CW operator's manual (schematic). The relays are shown in "receive". Placing the TR4CW in transmit cause relay "K1" to energize, shorting pins 5 and 8 together.

http://bama.edebris.com/manuals/drake/tr4cw/

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@...> wrote:
>
> You are good to go
> The Drake t/r relay connects direct to the 30L-1 RCA connector on the back
> Paul K0UYA
> ----- Original Message -----
> From: "billykatzz" <rsilvercat@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Friday, April 22, 2011 11:47 PM
> Subject: [DrakeRadio] Re: Drake TR4Cw with Collins 30L-1 linear
>
>
> > Do the TR4's have internal relays to handle the connection to the 30L-1 or
> > does it require an external relay?
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> > Bill in Pasadena, NK6Q
> >
> > --- In DrakeRadio@yahoogroups.com, "Paul Kraemer" <elespe@> wrote:
> >>
> >> Yes, reduce the power of the TR-4 to about half or third what it normally
> >> runs.
> >> Otherwise---bye bye 30L-1
> >> Paul K0UYA
> >> ----- Original Message -----
> >> From: "billykatzz" <rsilvercat@>
> >> To: <DrakeRadio@...m>
> >> Sent: Wednesday, April 20, 2011 11:40 AM
> >> Subject: [DrakeRadio] Drake TR4Cw with Collins 30L-1 linear
> >>
> >>
> >> > Well, guys, a Collins 30L-1 was up for sale in my neighborhood and I
> >> > couldn't pass it up. It looks in very good-to-excellent condition and

> >> > is
> >> > currently wired for 115V. I think this may be a good rig to allow me
> >> > to
> >> > dip my toes into a little QRO.
> >> >
> >> > Are there any considerations I should have in regard to hooking it up
> >> > and
> >> > operating it with my TR-4Cw? Thanks in advance for your advice.
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> >> > Bill in Pasadena
> >> > NK6Q
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5313. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 19:38:53 UTC
From: Jim Shorney
Topic: 5270 Message: 5313

On Sat, 23 Apr 2011 11:54:40 GMT, bobsalmon@... wrote:

>But, I used the Shure 444 and the perceived audio by others was the same as what they had heard on the D-"10-4".

Have you checked the carrier oscillator alignment in the radio?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5314. Re: [DrakeRadio] Re: T-4X or other, mic impedance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-23 20:30:59 UTC
From: Richard Knoppow
Topic: 5270 Message: 5314

----- Original Message -----
From: <bobsalmon@...>
To: <DrakeRadio@yahoogroups.com>
Cc: <DrakeRadio@yahoogroups.com>
Sent: Saturday, April 23, 2011 4:54 AM
Subject: Re: [DrakeRadio] Re: T-4X or other, mic impedance

> Thank you all.
> Richard, thanks for the mic. lesson regarding the xtals.
> I didn't know about the moisture absorption proble.
> But, I used the Shure 444 and the perceived audio by
> others was the same as what they had heard on the
> D-"10-4".
>
> I am going to experiment with various resistors and if
> that doesn't "pan out", then I'll add a cap in parallel.
> I will report back with my results.
>
> I "shure" wish that my TR4 was working.
>
> Bob N3JQD
>

Well, I thank you for the compliment. A cap across the mic will roll off the highs but not boost the lows. One of the problems with crystal mics is that the impedance is so high that cable capacitance becomes a problem. Low capacitance cable should be used and the length limited. If the mic has a bad peak in it a cap _might_ help but it won't eliminate the peak, only create dips around it.
It might be useful if someone made MP3's or something of various mics in good condition so people could hear what they are supposed to sound like. Of course one must be sure the mics demonstrated are really working properly. I remember a video tape shown to a bunch of us in an audio club. It was a demonstration of various classic microphones. I have some of them and it was obvious that a few of the ones demonstrated were broken despite sort of working. Shure made a number of good microphones and is still in business so they must be doing something right. I have a couple of their old cardioid mics, a 556 and a 55S. The curves for these are on the web. The design is interesting because it was AFAIK the first cardioid made with a single element, other previous directional mics were a combination of a non-directional element with a bi-directional element. The mic works but there are a lot of parasitic resonators in

it. The highs have a broad peak around 4 khz. What I find interesting is that Shure designed the response curves of their later mics to about duplicate these early ones. They have a good response for voice intelligibility. I think the response of the original mic was just a result of the mechanism but it turned out to be advantageous so they just stuck with it even through they could probably have made perfectly flat mics later.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5315. FS: INRAD GUF-1 8000 Hz 8-pole crystal filter R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 06:12:21 UTC
From: Rich Hallman - N7TR
Topic: 5315 Message: 5315

Brand-New in the box. $110 Shipped

http://www.inrad.net/product.php?productid=176&cat=100

Rich N7TR

ex KI3V, N3AMK, WB3JOV

www.n7tr.com

Telnet: dxc.n7tr.com N7TR DXCluster

[Non-text portions of this message have been removed]

5316. RE: [DrakeRadio] FS: INRAD GUF-1 8000 Hz 8-pole crystal filter R4C SOLD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 14:31:33 UTC
From: Rich Hallman - N7TR
Topic: 5315 Message: 5316

SOLD

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Rich Hallman - N7TR
Sent: Saturday, April 23, 2011 11:12 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] FS: INRAD GUF-1 8000 Hz 8-pole crystal filter R4C

Brand-New in the box. $110 Shipped

http://www.inrad.net/product.php?productid=176&cat=100

Rich N7TR

ex KI3V, N3AMK, WB3JOV

www.n7tr.com

Telnet: dxc.n7tr.com N7TR DXCluster

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5317. FS-NEW DRAKE BAR KNOBS:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 15:24:43 UTC
From: ALAN PHILLIPS
Topic: 5317 Message: 5317

NEW DRAKE BAR KNOBS: $4 EACH. NEW PRESELECTOR KNOBS:$6 EACH FROM AL KC9YS.

[Non-text portions of this message have been removed]

5318. Re: FS-NEW DRAKE BAR KNOBS:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 18:11:35 UTC
From: w5rkl
Topic: 5317 Message: 5318

Do you have a nice undented, straight side, R4<any> top cover? I need one for an older R4C I have.

I need 3 bar knobs for this old R4C receiver too. What's the shipping to zip code 74953?

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, ALAN PHILLIPS <kc9ys@...> wrote:
>
> NEW DRAKE BAR KNOBS: $4 EACH. NEW PRESELECTOR KNOBS:$6 EACH FROM AL KC9YS.
>
>
> [Non-text portions of this message have been removed]
>

5319. Receive Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 21:39:04 UTC
From: w3djk
Topic: 5319 Message: 5319

Greetings,
I have a TR4C. I have noticed that my receive audio gets muffled from time to time. I also noticed that by tapping the radio chasiss or just lightly moving the powersupply cable it clears up. I still have not found a loose ground anywhere. Any ideas on possible culprits?
73, Dan w3djk

5320. Re: [DrakeRadio] Receive Audio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-24 23:39:07 UTC
From: Christmas Peter
Topic: 5319 Message: 5320

Hi Dan
I recently got a tr 4c from my friend's estate... it had a similar problem. I carefully cleaned the tube pins and sockets and then located the tube that was acting similar to yours. Once located I took the time to re solder the connections on the tube socket...I did that on many of the tubes as long as I had it apart and...the problem is gone!

Cheers
Mark
W2MFT

--- On Sun, 4/24/11, w3djk <dan_kulling@...> wrote:

From: w3djk <dan_kulling@...>
Subject: [DrakeRadio] Receive Audio
To: DrakeRadio@yahoogroups.com
Date: Sunday, April 24, 2011, 5:39 PM

Greetings,

I have a TR4C. I have noticed that my receive audio gets muffled from time to time. I also noticed that by tapping the radio chasiss or just lightly moving the powersupply cable it clears up. I still have not found a loose ground anywhere. Any ideas on possible culprits?
73, Dan w3djk

[Non-text portions of this message have been removed]

5321. REDUCED: Drake MS4 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-04-27 14:19:49 UTC
From: Bry Carling
Topic: 5321 Message: 5321

Reduced price:

I have for sale a really nice Drake MS4 Speaker. Complete with cable.
No power supply in it. Working condition, no rust not garbage.
Pictures available on request. Serious inquiries only please.

Will let it go for $75.00 plus shipping.

73 - Brian, AF4K

[Non-text portions of this message have been removed]

5322. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-01 19:02:11 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5322

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5323. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-03 00:16:29 UTC
From: bobsalmon@juno.com
Topic: 5197 Message: 5323

Hi. In an earlier post I requested some help locating a USB filter for a plain TR4. I recently saw an ad for both filters in Ebay, but, they are for a TR4C.
Does anyone know if they would work for me? I saved a picture of them from the Ebay ad if anyone wanted to see the info printed on the filters housing.
Thanks.
Bob N3JQD

_____
Penny Stock Jumping 3000%
Sign up to the #1 voted penny stock newsletter for free today!
http://thirdpartyoffers.juno.com/TGL3141/4dbf499d56ae81ed466st04vuc

5324. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-03 01:29:48 UTC
From: Garey Barrell
Topic: 5197 Message: 5324

Bob -

Yes, the filters are compatible. What is the s/n on your TR-4?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

bobsalmon@... wrote:
> Hi. In an earlier post I requested some help locating a USB filter for a plain TR4. I recently saw an ad for both filters in Ebay, but, they are for a TR4C.
> Does anyone know if they would work for me? I saved a picture of them from the Ebay ad if anyone wanted to see the info printed on the filters housing.
> Thanks.
> Bob N3JQD
>
>

5325. Re: [DrakeRadio] Re: Bob N3JQD TR4 help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-03 11:37:25 UTC
From: bobsalmon@juno.com
Topic: 5197 Message: 5325

I will get that s/n for you and report back soon.
I think that I will install both filters into the TR4. That may offer more compatibility.
I see your reason for asking about the s/n. As earlier ones used an 8-pole "can" style filter.
Thanks,
Bob N3JQD

_____
Groupon.com Official Site
1 huge daily deal on the best stuff to do in your city. Try it today!
http://thirdpartyoffers.juno.com/TGL3141/4dbfe93ad4b2e1fbff6st03vuc

5326. Re: Hi, I'm a new member

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-04 23:20:06 UTC
From: Greg
Topic: 1595 Message: 5326

Arthur
I am a recent new member also. I have the Wellbrook antenna and love it. One of the best SW investments to make, in my opinion. I use it with an Icom R75 (Kiwa modified) and will be trying the SW8 with it soon.
Greg

--- In DrakeRadio@yahoogroups.com, Arthur Gerstein <arthurgerstein@...> wrote:
>
> Hi everybody,
>
> I just joined this group to learn more about the Drake SW8. I am an avid SW listener, and here is a partial listing of my radio collection:
>
> Sony:
> CRF-320, 6800, 6700, 2010, TFM 1600, TFM 1000 WB, SW-1S, SW-07, SW 55, SW 77 and a variety of small Sony radios...
>
> Grundig Satellits:
> 210, 205, 2100, 3400, 300, 400, 500, 700, 800 (somewhat similar electronically to SW8)
>
> Eton:
> E-1, S350, S350DL
>
> Panasonic:
> RF-B65, RF-B40
>
> Although I had been using all my radios on their internal whip antennae, I recently purchased a Wellbrook Loop to enhance my receiving.
>
> Looking forward to hearing from the group.
>
> Regards,
> Arthur
>
>
>
>
> [Non-text portions of this message have been removed]
>

5327. WTB: 160 xtal for R4C - 12.9 Mhz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-08 15:07:00 UTC
From: Rich Hallman - N7TR
Topic: 5327 Message: 5327

Looking for a 12.9 mhz xtal for the R4 / T4.

I know I can get the 12.6 mhz xtal, but looking for a 12.9 so the 1.8 mhz scale starts at 0 on the tuning dial.

Thanks...

Rich N7TR

ex KI3V, N3AMK, WB3JOV

www.n7tr.com <http://www.n7tr.com>

Telnet: dxc.n7tr.com N7TR DXCluster

[Non-text portions of this message have been removed]

5328. Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-08 22:29:06 UTC
From: w5rkl
Topic: 5327 Message: 5328

If you can't find a 12.9Mhz crystal check with International Crystals in Oklahoma City, OK. They can make you one for about $22 plus a few dollars USPS shipping.

http://www.icmfg.com/hamradio-manufacturers.html

They have an toll free 800 number you can call. I buy all my Drake crystals from International Crystals and I have never gotten a bad crystal yet.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Rich Hallman - N7TR" <rich@...> wrote:
>
> Looking for a 12.9 mhz xtal for the R4 / T4.
>
>
>
> I know I can get the 12.6 mhz xtal, but looking for a 12.9 so the 1.8
> mhz scale starts at 0 on the tuning dial.
>
>
>
> Thanks...
>
>
>
>
>
> Rich N7TR
>
> ex KI3V, N3AMK, WB3JOV
>
> www.n7tr.com <http://www.n7tr.com>
>
> Telnet: dxc.n7tr.com N7TR DXCluster
>
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>
>
>
> [Non-text portions of this message have been removed]
>

5329. Re: [DrakeRadio] Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-08 22:40:43 UTC
From: Jim Wilhite
Topic: 5327 Message: 5329

Before you order give Bry, AF4K an email. He has loads of crystals and may have what you want.

http://af4k.com/

Jim/W5JO

From: w5rkl <w5rkl@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, May 8, 2011 5:29:06 PM
Subject: [DrakeRadio] Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

If you can't find a 12.9Mhz crystal check with International Crystals in Oklahoma City, OK. They can make you one for about $22 plus a few dollars USPS shipping.

http://www.icmfg.com/hamradio-manufacturers.html

They have an toll free 800 number you can call. I buy all my Drake crystals from International Crystals and I have never gotten a bad crystal yet.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Rich Hallman - N7TR" <rich@...> wrote:
>
> Looking for a 12.9 mhz xtal for the R4 / T4.
>
>
>
> I know I can get the 12.6 mhz xtal, but looking for a 12.9 so the 1.8
> mhz scale starts at 0 on the tuning dial.
>
>
>
> Thanks...
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>
>
>
>
> Rich N7TR
>
> ex KI3V, N3AMK, WB3JOV
>

> www.n7tr.com <http://www.n7tr.com>
>
> Telnet: dxc.n7tr.com N7TR DXCluster
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5330. RE: [DrakeRadio] Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-08 23:19:24 UTC
From: Rich Hallman - N7TR
Topic: 5327 Message: 5330

I found the crystal I was looking for. Thanks all….

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Wilhite
Sent: Sunday, May 08, 2011 3:41 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

Before you order give Bry, AF4K an email. He has loads of crystals and may have what you want.

http://af4k.com/

Jim/W5JO

From: w5rkl <w5rkl@... <mailto:w5rkl%40yahoo.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Sun, May 8, 2011 5:29:06 PM
Subject: [DrakeRadio] Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

If you can't find a 12.9Mhz crystal check with International Crystals in Oklahoma City, OK. They can make you one for about $22 plus a few dollars USPS shipping.

http://www.icmfg.com/hamradio-manufacturers.html

They have an toll free 800 number you can call. I buy all my Drake crystals from International Crystals and I have never gotten a bad crystal yet.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "Rich Hallman - N7TR" <rich@...> wrote:
>
> Looking for a 12.9 mhz xtal for the R4 / T4.
>
>
>
> I know I can get the 12.6 mhz xtal, but looking for a 12.9 so the 1.8
> mhz scale starts at 0 on the tuning dial.
>
>
>
> Thanks...

>
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>
> Rich N7TR
>
> ex KI3V, N3AMK, WB3JOV
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> www.n7tr.com <http://www.n7tr.com>
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5331. Re: WTB: 160 xtal for R4C - 12.9 Mhz xtal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-09 17:11:37 UTC
From: PaulG
Topic: 5327 Message: 5331

Rich

DigiKey has 12.8 and 12.96

If I were to use the 12.8 would this mean that 1.8 would be at 100 on the R4b dial?

I have been using a digikey 14.0 mHz crystal in my 2B for several years now as a 20M crystal.

The price is right I used a dead crystal for the base.

Paul K3PG

--- In DrakeRadio@yahoogroups.com, "Rich Hallman - N7TR" <rich@...> wrote:
>
> Looking for a 12.9 mhz xtal for the R4 / T4.
>
>
>
> I know I can get the 12.6 mhz xtal, but looking for a 12.9 so the 1.8
> mhz scale starts at 0 on the tuning dial.
>
>
>
> Thanks...
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> Rich N7TR
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> ex KI3V, N3AMK, WB3JOV
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> www.n7tr.com <http://www.n7tr.com>
>
> Telnet: dxc.n7tr.com N7TR DXCluster
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>
> [Non-text portions of this message have been removed]
>

5332. RV-4 FA on eBay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-09 17:26:02 UTC
From: PaulG
Topic: 5332 Message: 5332

If you want a RV-4 I put one on Flea Bay that I bought last fall as part of a TR-4 set. It works perfectly and has really nice copper on the chassis. Speaker is fine, has all cables and paint is good too.

item #

290563079119

I am going to keep the TR-4 when I get it working right and have decided not to keep the RV-4. The start price is $1 with no reserve.

5333. Re: [DrakeRadio] RV-4 FA on eBay

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-09 18:27:24 UTC
From: Paul Kraemer
Topic: 5332 Message: 5333

Or, buy the RV-4 and see me for a TR4-C
Paul K0UYA
----- Original Message -----
From: "PaulG" <pgerhardt@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, May 09, 2011 12:26 PM
Subject: [DrakeRadio] RV-4 FA on eBay

>
> If you want a RV-4 I put one on Flea Bay that I bought last fall as part
> of a TR-4 set. It works perfectly and has really nice copper on the
> chassis. Speaker is fine, has all cables and paint is good too.
>
> item #
>
> 290563079119
>
> I am going to keep the TR-4 when I get it working right and have decided
> not to keep the RV-4. The start price is $1 with no reserve.
>
>
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

5334. [Drakelist] FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-10 20:02:14 UTC
From: Garey Barrell
Topic: 5334 Message: 5334

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, A, B and C
Lines, 2-C / 2-NT and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

_____
Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

5335. 4 line vfo

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-12 14:29:09 UTC
From: yash@aol.com
Topic: 5335 Message: 5335

I have been looking at the 5-6 digital vfo kits that are on the market. I have written all of them about adapting to the drake 4 line. None have offered any info or help ,other than they make a vfo kit but have no applications info to give. Has anyone in the group done such a conversion> would like to build up a digital remote vfo. I don't want to reinvent the wheel if some one has worked this out,and also I do not have the background to design a interface circuit if needed. With all the kits out there sure seems like a do able project.
thanks
dale WT4T

[Non-text portions of this message have been removed]

5336. REDUCED MORE: POWERSTAT VARIACS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-14 12:52:25 UTC
From: Bry Carling
Topic: 5336 Message: 5336

REDUCED EVEN MORE (Next stop eBay)

Variable AC transformers. With front panels.

Two 250 watt "variacs" - Each designed for 0 - 250 V AC at 1 amp, 60 Hz.
Can be used at 120V AC also.

These are conservatively rated and can probably handle 1.5 to 2.0 Amps at 120V easily.
They are three terminal, open frame Powerstat variable transformers with 1/4" shaft.
One has a knob.

Now available for $15.00 each plus shipping

Next stop eBay if nobody wants them.

73 & thanks for looking - Bry, AF4K

[Non-text portions of this message have been removed]

5337. Re: [DrakeRadio] REDUCED MORE: POWERSTAT VARIACS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-14 23:18:04 UTC
From: Dan Galligan
Topic: 5336 Message: 5337

Bry,
I'll take one. Do you want PayPal, or USPS Money Order. PayPal can be done as gift, so that neither of us incurs a fee, if you are willing to accept that. If not, I can get a USPS Money Order on Monday, and send it off then.
Also, have been meaning to contact you, to see if you are interested in a bunch of old crystals that I have. I haven't even looked at them in a while. Many are the old style, where the cases are sealed, and screwed, rather than soldered.
If you might be interested, let me know, and I can get you a count, and a list, and some decent hi-res photos of them. All are stashed away in a nice heavy duty and padded metal box, which appears to be military, of some sort. I just need to get them out from under the counter they are stashed below.

73,
Dan

On May 14, 2011, at 5:52 AM, Bry Carling wrote:

REDUCED EVEN MORE (Next stop eBay)

Variable AC transformers. With front panels.

Two 250 watt "variacs" - Each designed for 0 - 250 V AC at 1 amp, 60 Hz.
Can be used at 120V AC also.

These are conservatively rated and can probably handle 1.5 to 2.0 Amps at 120V easily.
They are three terminal, open frame Powerstat variable transformers with 1/4" shaft.
One has a knob.

Now available for $15.00 each plus shipping

Next stop eBay if nobody wants them.

73 & thanks for looking - Bry, AF4K

[Non-text portions of this message have been removed]

Yahoo! Groups Links

5338. Re: [DrakeRadio] REDUCED MORE: POWERSTAT VARIACS

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-14 23:46:09 UTC
From: Ronald Erickson
Topic: 5336 Message: 5338

How much is shipping to 51638? I might be interested as I have some vintage rigs I want to keep going.

73,

Ron, K0IC

On Sat, May 14, 2011 at 6:18 PM, Dan Galligan <w3rxo@...> wrote:

>
>
> Bry,
> I'll take one. Do you want PayPal, or USPS Money Order. PayPal can be done
> as gift, so that neither of us incurs a fee, if you are willing to accept
> that. If not, I can get a USPS Money Order on Monday, and send it off then.
> Also, have been meaning to contact you, to see if you are interested in a
> bunch of old crystals that I have. I haven't even looked at them in a while.
> Many are the old style, where the cases are sealed, and screwed, rather than
> soldered.
> If you might be interested, let me know, and I can get you a count, and a
> list, and some decent hi-res photos of them. All are stashed away in a nice
> heavy duty and padded metal box, which appears to be military, of some sort.
> I just need to get them out from under the counter they are stashed below.
>
> 73,
> Dan
>
> On May 14, 2011, at 5:52 AM, Bry Carling wrote:
>
> REDUCED EVEN MORE (Next stop eBay)
>
> Variable AC transformers. With front panels.
>
> Two 250 watt "variacs" - Each designed for 0 - 250 V AC at 1 amp, 60 Hz.
> Can be used at 120V AC also.
>
> These are conservatively rated and can probably handle 1.5 to 2.0 Amps at
> 120V easily.
> They are three terminal, open frame Powerstat variable transformers with
> 1/4" shaft.
> One has a knob.
>
> Now available for $15.00 each plus shipping
>
> Next stop eBay if nobody wants them.
>

> 73 & thanks for looking - Bry, AF4K
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

--
Ronald D. Erickson, K0IC
712-379-3614
Magic Jack # 712-587-1836
Heartland Hams
Southwest Iowa Amateur Radio Club
Bellevue Amateur Radio Club
ARRL Local Government Liaison
ARRL Public Information Officer
ARRL Technical Specialist
ARRL, the national association for Amateur Radio?
563-263-3097
ronalderickson777@...
10-X #12938 :* EN20iu
ARRL Lifer since 1976
3900 Club #729
Iowa QRP Club #179
QCWA Lifer #30762; Chapters, 25, 123, 210
FCC #PG-17-12556
FISTS CW Club #12484
Straight Key Century Club #2253
30 Meter Digital Group #3932
Breakfast Club via Amateur Radio # 3396 on 03/16/2011
FGBMFI Life Member since 1985
Salvation Army Team Emergency Radio Network member
Pastor license by Universal Life Church, Modesto, CA 10/09/1976
Trying to join the Shenandoah Assembly of God
The Collins Collectors Association #AC07-12075
Courage HANDI-HAM System member
Ex: WN0GDA, WB0GDA, AK0N, AAV7AW
Ex: KMA-AM broadcast engineer 1977-1989.
Ex: SBE Senior Broadcast Engineer #2308 - Radio - AM/FM
IWCC -Clarinda Associate of Arts Degree - 1973
University of Nebraska at Omaha Bachelor of General Studies Degree - 1993
True Full Swedish-American
k0ic@...
www.contactify.com/c521b
Iowa Disabled Lifetime Fisherman until 2032 or so.

[Non-text portions of this message have been removed]

5339. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-15 18:35:33 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5339

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5340. Drake 2A crystals.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-17 03:36:04 UTC
From: a_average_joe
Topic: 5340 Message: 5340

Just picked up a 2A and it's full of CB crystals. Sombody have a 40 meter (11 Mhz) crystal? I did find a fella selling the 11Mhz crystals on the net, but thought I'd asked here first. Other than being covered with yellow cigarette film and paint specks, it seems to be working and just to damb nice a receiver to part out.

5341. Re: [DrakeRadio] Drake 2A crystals.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-17 16:12:30 UTC
From: Lee Buller
Topic: 5340 Message: 5341

International Crystal Manufactures (along with others) have the Xtals you need. They know all the rigs out there too.

Lee K0WA

In our day and age it seems that Common Sense is in short supply. If you don't have any Common Sense - get some Common Sense and use it. If you can't find any Common Sense, ask for help from somebody who has some Common Sense. Is Common Sense divine?

Common Sense is the image of the Creator expressing revealed truth in my mind.
- John W. (Kansas)

From: a_average_joe <a_average_joe@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, May 16, 2011 10:36:04 PM
Subject: [DrakeRadio] Drake 2A crystals.

Just picked up a 2A and it's full of CB crystals. Sombody have a 40 meter (11 Mhz) crystal? I did find a fella selling the 11Mhz crystals on the net, but thought I'd asked here first. Other than being covered with yellow cigarette film and paint specks, it seems to be working and just to damb nice a receiver to part out.

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5342. WTB: Drake RV4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-18 23:57:31 UTC
From: billykatzz
Topic: 5342 Message: 5342

Looking for Drake RV4C in good working and cosmetic condition. Please contact me with description and asking price. Photos would be nice.

Bill in Pasadena, NK6Q

5343. FS: Midland 13-126 SWR Meter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 01:40:40 UTC
From: Bry Carling
Topic: 5343 Message: 5343

For Sale: Midland 13-126 SWR Meter
This is the one one that we ALL used in the 1960s!
Rebuild your novice station just like the old days.

This one looks brand new - in the box. Similar to the one pictured here, only better:
Midland 13-126 SWR Meter Picture

Available for $25.00 plus shipping.

73 - Bry, AF4K

[Non-text portions of this message have been removed]

5344. Re: Drake 2A Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 12:20:35 UTC
From: Bry Carling
Topic: 5344 Message: 5344

I have less expensive crystals for the Drake 2A, 2B, 2C here, including the 11 MHz ones. Scroll down from the Drake 4-line crystals to find the Drake 2-line crystals here:

http://www.af4k.com/hc6u_crystals.htm#drake

73 - Brian, AF4K

> Posted by: "a_average_joe" a_average_joe@...
> a_average_joe
> Date: Tue May 17, 2011 12:52 am ((PDT))
>
> Just picked up a 2A and it's full of CB crystals. Sombody have a 40
> meter
> (11 Mhz) crystal? I did find a fella selling the 11Mhz crystals on
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> net, but thought I'd asked here first. Other than being covered
> with
> yellow cigarette film and paint specks, it seems to be working and
> just to
> damb nice a receiver to part out.

[Non-text portions of this message have been removed]

5345. TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 22:09:42 UTC
From: km5wx@bellsouth.net
Topic: 5345 Message: 5345

Several years ago I purchased a tr-4 with ms-4 rv-4c. The rig had been in a fire and was repaired by a gentleman in Memphis that is not a ham but restores boatanchors as a hobby to keep for his collection or sell. My question is there is no visible serial no. on the rig . It operates excellently. Did all of the tr-4 rigs have a copper chassis? This does not appear to be copper. Understanding that it was in a fire maybe the chassis is very stained or he may have constructed a new chassis out of some other material. So as I said my question is did all the tr-4 have the copper chassis or did a later model possible had galvanized steel, aluminum or just plain steel. Thanks for the info in advance. KM5WX Richard

5346. Re: [DrakeRadio] TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 22:23:58 UTC
From: William Houghton
Topic: 5345 Message: 5346

My TR-3 has a copper chassis.
My TR-4 has a copper chassis, but I don't think its the later serial numbers.
Garey calles it a TR-4B.
My TR-4C has a steel chassis.

Are any tube types silkscreened onto your chassis? I believe the chassis weren't really copper but copper plated onto a steel chassis.

Bill

From: "km5wx@..." <km5wx@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, May 19, 2011 3:09:42 PM
Subject: [DrakeRadio] TR-4 question

Several years ago I purchased a tr-4 with ms-4 rv-4c. The rig had been in a fire and was repaired by a gentleman in Memphis that is not a ham but restores boatanchors as a hobby to keep for his collection or sell. My question is there is no visible serial no. on the rig . It operates excellently. Did all of the tr-4 rigs have a copper chassis? This does not appear to be copper. Understanding that it was in a fire maybe the chassis is very stained or he may have constructed a new chassis out of some other material. So as I said my question is did all the tr-4 have the copper chassis or did a later model possible had galvanized steel, aluminum or just plain steel. Thanks for the info in advance. KM5WX Richard

[Non-text portions of this message have been removed]

5347. Re: [DrakeRadio] TR-4 question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 22:32:21 UTC
From: Garey Barrell
Topic: 5345 Message: 5347

Richard -

To my knowledge, ALL TR-4 transceivers came with a copper plated steel chassis. The TR-4C had a steel chassis with a surface treatment similar to cadmium plate.

I wouldn't think it would be worthwhile to fabricate a new chassis. How many dial discs does the PTO have? If there are two, it may be a TR-4C with a TR-4 front panel on it. If a single dial disc, it could still be a TR-4C chassis with the TR-4 PTO. There may be other 'mix and match' possibilities, but that's all that come to mind.

If you can send me a photo of the top and bottom chassis I can probably identify it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

km5wx@... wrote:
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>
>
>

5348. unsubscribe@yahoogroups.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-19 22:34:28 UTC
From: Dennis
Topic: 5348 Message: 5348

unsubscribe@yahoogroups.com

5349. Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-21 02:06:36 UTC
From: wa4bhk
Topic: 5349 Message: 5349

I'm looking for a Preselector knob for my R4 B receiver. Does anyone have one for sale?
Thanks,

Lawrence

5350. RE: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-21 02:26:01 UTC
From: Jim Chaggaris
Topic: 5349 Message: 5350

Lawrence,

Al Phillips (KC9YS) has new ones for sale. They are from the original mfr.

We're at Dayton and I'll tell him tomorrow. He's also cc'd.

73,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of wa4bhk
Sent: Friday, May 20, 2011 9:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Preselector Knob For R4 B

I'm looking for a Preselector knob for my R4 B receiver. Does anyone have one for sale? Thanks,

Lawrence

[Non-text portions of this message have been removed]

5351. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-21 02:33:13 UTC
From: Lawrence Matheson
Topic: 5349 Message: 5351

Jim,
Thanks,

Lawrence

----- Original Message -----
From: Jim Chaggaris
To: DrakeRadio@yahoogroups.com
Cc: 'ALAN PHILLIPS'
Sent: Friday, May 20, 2011 10:26 PM
Subject: RE: [DrakeRadio] Preselector Knob For R4 B

Lawrence,

Al Phillips (KC9YS) has new ones for sale. They are from the original mfr.

We're at Dayton and I'll tell him tomorrow. He's also cc'd.

73,

Jim N9WW

Jim Chaggaris

President

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Fax: 630-443-6505

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From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of wa4bhk
Sent: Friday, May 20, 2011 9:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Preselector Knob For R4 B

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Lawrence

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5352. FS: Antenna Selector Switches from $3 to $30

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-21 21:34:23 UTC
From: Bry Carling
Topic: 5352 Message: 5352

FOR SALE: Antenna Selector Switches

1) Phasing switch used for selecting XMTR - AUX - HORIZONTAL - VERTICAL
Has four SO-239 connectors. Perhaps used with a Moonraker or similar
antenna. $5.00 plus shipping

2) OLSON 2-way coaxial antenna switch - with three SO-239 connectors for
ANT 1, ANT 2, and radio. Slide switch. Very good condition. $5.00 plus shipping

3) WATERS Coaxial Selector Switch with faceplate and mounting hardware.
This is a 5 position switch with SO-239 connectors and a grounding position to help
protect the antennas. Available for $20.00 plus shipping

4) WATERS 2-way Coaxial Selector Switch with faceplate. This is a 2 position switch
with FOUR SO-239 connectors (interestingly!). Available for $16.00 plus shipping

5) PACE 3-position coaxial switch. Model 5621 it is 1KW rated. Has 4 SO-239 connectors.
Available for $10.00 plus shipping

6) DOWKEY COAXIAL Antenna Selector Switch model DK78-2. Two positions with
faceplate. Ultimate in beautiful antenna switches. Excellent condition.
Built like a tank. Available for $30.00 plus shipping

7) Homebrew 2-way coaxial antenna switch - with three SO-239 connectors for
ANT 1, ANT 2, and radio. Rotary selector switch.Good condition. $3.00 plus shipping.

73 de AF4K - Bry

[Non-text portions of this message have been removed]

5353. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 04:06:33 UTC
From: ALAN PHILLIPS
Topic: 5349 Message: 5353

Hi Lawrence:

I'm back from Dayton!

Preselector knobs are $6 each, shipping is $2.50

you can use paypal at this email or send me a check.

betsyross13@...

let me know when you send funds, paypal does not
tnx and 73 al kc9ys

From: Lawrence Matheson <wa4bhk@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, May 20, 2011 9:33:13 PM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Jim,
Thanks,

Lawrence

----- Original Message -----
From: Jim Chaggaris
To: DrakeRadio@yahoogroups.com
Cc: 'ALAN PHILLIPS'
Sent: Friday, May 20, 2011 10:26 PM
Subject: RE: [DrakeRadio] Preselector Knob For R4 B

Lawrence,

Al Phillips (KC9YS) has new ones for sale. They are from the original mfr.

We're at Dayton and I'll tell him tomorrow. He's also cc'd.

73,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of wa4bhk
Sent: Friday, May 20, 2011 9:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Preselector Knob For R4 B

I'm looking for a Preselector knob for my R4 B receiver. Does anyone have one for sale? Thanks,

Lawrence

[Non-text portions of this message have been removed]

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5354. Re: [DrakeRadio] FS: Antenna Selector Switches from $3 to $30

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 07:43:40 UTC
From: g4jss@tiscali.co.uk
Topic: 5352 Message: 5354

Hi
Is the PACE 5621 still available?
73
Vic
G4JSS

5355. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 12:12:17 UTC
From: Lawrence Matheson
Topic: 5349 Message: 5355

Al,
Thanks. I just got this R4 B and the previous owner changed the preselector knob to a two piece non Drake knob. It doesn't have the red pointer so its hard to know exactly where the preselector is set. Do your knobs have the red indicator?
Thanks,

Lawrence

----- Original Message -----
From: ALAN PHILLIPS
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 22, 2011 12:06 AM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

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you can use paypal at this email or send me a check.

betsyross13@...

let me know when you send funds, paypal does not
tnx and 73 al kc9ys

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To: DrakeRadio@yahoogroups.com
Sent: Fri, May 20, 2011 9:33:13 PM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

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Thanks,

Lawrence

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Cc: 'ALAN PHILLIPS'
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5356. Seeking dial for my T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 13:47:20 UTC
From: bpierfel
Topic: 5356 Message: 5356

My T-4XB's dial is severely browned in one portion from sitting unused for years in sunlight (I presume).
Anyways, I'm looking for a nice clear, flat replacement. Anyone have one they wish to sell or know of one? I've checked ebay for quite some time with no luck.
tnx
Bob

5357. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 16:42:10 UTC
From: ALAN PHILLIPS
Topic: 5349 Message: 5357

Hi Lawrence:

The knobs never had a red pointer because there is a planetary gear reduction connected to the shaft. You are missing the red metal pointer that has a small round hole that friction mounts by pushing it onto the larger part of the shaft.

Painting a line on knob would not work because the knob rotates many times faster than the planetary gear reduction. You should ask the Forum" if anyone has a spare red pointer for you to purchase.

There is a slit in the end of the metal circle that pushes onto the shaft so that it can expand as you push it on the assembly. That is how its held in place.

You could temporarily make a pointer, but, be care not to push it too far onto the shaft where it may hit the panel and scrape off the paint. It must be perfectly flat so when it rotates, it doesn't touch the panel.

73. al kc9ys

From: Lawrence Matheson <wa4bhk@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, May 22, 2011 7:12:17 AM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

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betsyross13@...

let me know when you send funds, paypal does not
tnx and 73 al kc9ys

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Sent: Fri, May 20, 2011 9:33:13 PM
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5358. WTB: DRAKE SW-4A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 16:49:32 UTC
From: Joel Levy
Topic: 5358 Message: 5358

Hi everybody, I looking to acquire a SW-4A or SW-4. Does anyone have one available or know where I can find one? Tnx, 73, Joel AE2JL

[Non-text portions of this message have been removed]

5359. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 18:02:08 UTC
From: Lawrence Matheson
Topic: 5349 Message: 5359

Al,
This receiver has a planetary drive but it appears that it is not the original Drake drive. It looks to be much larger than the Drake drive as it covers up the inner circle of numbers and a little of the 'circle line'. The knob is not Drake and this 'assembly' has no pointer. Looks like I need to find the whole planetary assembly. I'll see what I can find and I may still need to get the knob from you if the assembly does not come with one. Other than the preselector problem, the receiver is almost perfect, not a scratch anywhere and the copper is perfect. Thanks for all your help.

Lawrence

----- Original Message -----
From: ALAN PHILLIPS
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To: DrakeRadio@yahoogroups.com
Sent: Sun, May 22, 2011 7:12:17 AM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

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you can use paypal at this email or send me a check.

betsyross13@...

let me know when you send funds, paypal does not
tnx and 73 al kc9ys

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To: DrakeRadio@yahoogroups.com
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Subject: RE: [DrakeRadio] Preselector Knob For R4 B

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To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Preselector Knob For R4 B

I'm looking for a Preselector knob for my R4 B receiver. Does anyone have one for sale? Thanks,

Lawrence

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5360. Re: [DrakeRadio] Preselector Knob For R4 B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 18:23:47 UTC
From: ALAN PHILLIPS
Topic: 5349 Message: 5360

Lawrence:

Well, sounds like quite a modification!
If you do not have a source for the separate assembly, You can send you radio to one of the drake techs listed at www://wb4hfn.com or buy a parts only R4B from ebay or qth.com etc.

I know you don't need the extra expense, but the drake repair guys are excellent and have repair parts///also

Try the drake net today or next sunday at 2000Z at 7238 plus/minus Qrm. You can inquire about the part.

I do not know if the drake techs will be back from Dayton today for the net but Next sunday for sure!

73. al kc9ys

From: Lawrence Matheson <wa4bhk@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, May 22, 2011 1:02:08 PM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Al,
This receiver has a planetary drive but it appears that it is not the original Drake drive. It looks to be much larger than the Drake drive as it covers up the inner circle of numbers and a little of the 'circle line'. The knob is not Drake and this 'assembly' has no pointer. Looks like I need to find the whole planetary assembly. I'll see what I can find and I may still need to get the knob from you if the assembly does not come with one.
Other than the preselector problem, the receiver is almost perfect, not a scratch anywhere and the copper is perfect. Thanks for all your help.

Lawrence

----- Original Message -----
From: ALAN PHILLIPS
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 22, 2011 12:42 PM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Hi Lawrence:

The knobs never had a red pointer because there is a planetary gear reduction connected to the shaft. You are missing the red metal pointer that has a small round hole that friction mounts by pushing it onto the larger part of the shaft.

Painting a line on knob would not work because the knob rotates many times faster than the planetary gear reduction. You should ask the Forum" if anyone has a spare red pointer for you to purchase.

There is a slit in the end of the metal circle that pushes onto the shaft so that it can expand as you push it on the assembly. That is how its held in place.

You could temporarily make a pointer, but, be care not to push it too far onto the shaft where it may hit the panel and scrape off the paint. It must be perfectly flat so when it rotates, it doesn't touch the panel.

73. al kc9ys

From: Lawrence Matheson <wa4bhk@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, May 22, 2011 7:12:17 AM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Al,
Thanks. I just got this R4 B and the previous owner changed the preselector knob to a two piece non Drake knob. It doesn't have the red pointer so its hard to know exactly where the preselector is set. Do your knobs have the red indicator?

Thanks,

Lawrence

----- Original Message -----
From: ALAN PHILLIPS
To: DrakeRadio@yahoogroups.com
Sent: Sunday, May 22, 2011 12:06 AM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Hi Lawrence:

I'm back from Dayton!

Preselector knobs are $6 each, shipping is $2.50

you can use paypal at this email or send me a check.

betsyross13@...

let me know when you send funds, paypal does not
tnx and 73 al kc9ys

From: Lawrence Matheson <wa4bhk@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, May 20, 2011 9:33:13 PM
Subject: Re: [DrakeRadio] Preselector Knob For R4 B

Jim,
Thanks,

Lawrence

----- Original Message -----
From: Jim Chaggaris
To: DrakeRadio@yahoogroups.com
Cc: 'ALAN PHILLIPS'
Sent: Friday, May 20, 2011 10:26 PM
Subject: RE: [DrakeRadio] Preselector Knob For R4 B

Lawrence,

Al Phillips (KC9YS) has new ones for sale. They are from the original mfr.

We're at Dayton and I'll tell him tomorrow. He's also cc'd.

73,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of wa4bhk
Sent: Friday, May 20, 2011 9:07 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Preselector Knob For R4 B

I'm looking for a Preselector knob for my R4 B receiver. Does anyone have one for sale? Thanks,

Lawrence

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

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5361. Re: [DrakeRadio] Seeking dial for my T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-22 19:46:24 UTC
From: Don Cunningham
Topic: 5356 Message: 5361

Be VERY careful on the ones you find. I thought I had a good, NOS one, but it tunes backwards when you look at it closely and must be for the TR6, which goes that way. It sure looks like the T4XB or R4B, but won't work!!! Drake may have sold these out late, and honestly thought they were selling 4B ones.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5362. Antenna Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-23 11:56:00 UTC
From: Bry Carling
Topic: 5362 Message: 5362

Hello Vic - sorry, no - that one is gone.

Bry, AF4K

Posted by: "g4jss@..." g4jss@...
victorwaddington
Date: Sun May 22, 2011 12:43 am ((PDT))

Hi
Is the PACE 5621 still available?
73
Vic
G4JSS

[Non-text portions of this message have been removed]

5363. Re: [DrakeRadio] Antenna Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-23 20:11:56 UTC
From: g4jss@tiscali.co.uk
Topic: 5362 Message: 5363

OK Bry
Thanks for letting me know 73
Vic

5364. R4B Preselector planetary gear reduction assembly

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-24 14:01:08 UTC
From: wa4bhk
Topic: 5364 Message: 5364

I'm looking for the Preselector Planetary Gear drive assembly for my R4B receiver. The previous owner replaced this assembly with a different drive and I would like to restore the receiver to original. If anyone has one for sale please let my know. Thanks
Lawrence, WA4BHK

5365. RE: [DrakeRadio] Seeking dial for my T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-24 16:19:22 UTC
From: Martin B
Topic: 5356 Message: 5365

Hello Bob i have a non working T4XB without cabinet for 75$ + shipping.
Martin
VA2ZO

To: DrakeRadio@yahoogroups.com
From: kb8tl@...
Date: Sun, 22 May 2011 13:47:20 +0000
Subject: [DrakeRadio] Seeking dial for my T-4XB

My T-4XB's dial is severely browned in one portion from sitting unused for years in sunlight (I presume).
Anyways, I'm looking for a nice clear, flat replacement. Anyone have one they wish to sell or know of one? I've checked ebay for quite some time with no luck.
tnx
Bob

[Non-text portions of this message have been removed]

5366. Re: Seeking dial for my T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-24 23:46:00 UTC
From: bpierfel
Topic: 5356 Message: 5366

Well thanks but I paid $50 for mine, mit cabinet and sorta working.
If you part it out, let me know.
Bob

--- In DrakeRadio@yahoogroups.com, Martin B <martin.benoit@...> wrote:
>
>
> Hello Bob i have a non working T4XB without cabinet for 75$ + shipping.
> Martin
> VA2ZO
>
>
>
> To: DrakeRadio@yahoogroups.com
> From: kb8tl@...
> Date: Sun, 22 May 2011 13:47:20 +0000
> Subject: [DrakeRadio] Seeking dial for my T-4XB
>
>
>
>
>
>
>
> My T-4XB's dial is severely browned in one portion from sitting unused for years in sunlight (I presume).
> Anyways, I'm looking for a nice clear, flat replacement. Anyone have one they wish to sell or know of one? I've checked ebay for quite some time with no luck.
> tnx
> Bob
>
>
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>
>
>
> [Non-text portions of this message have been removed]
>

5367. RE: [DrakeRadio] Re: Seeking dial for my T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 00:40:32 UTC
From: Martin
Topic: 5356 Message: 5367

Qsl tnx!

De : DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] De la part de bpierfel
Envoyé : 24 mai 2011 19:46
À : DrakeRadio@yahoogroups.com
Objet : [DrakeRadio] Re: Seeking dial for my T-4XB

Well thanks but I paid $50 for mine, mit cabinet and sorta working.
If you part it out, let me know.
Bob

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , Martin B <martin.benoit@...> wrote:
>
>
> Hello Bob i have a non working T4XB without cabinet for 75$ + shipping.
> Martin
> VA2ZO
>
>
>
> To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
> From: kb8tl@...
> Date: Sun, 22 May 2011 13:47:20 +0000
> Subject: [DrakeRadio] Seeking dial for my T-4XB
>
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>
> My T-4XB's dial is severely browned in one portion from sitting unused for years in sunlight (I presume).
> Anyways, I'm looking for a nice clear, flat replacement. Anyone have one they wish to sell or know of one? I've checked ebay for quite some time with no luck.
> tnx
> Bob
>
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>
> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

5368. FS: Original FT243 Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 01:31:56 UTC
From: Bry Carling
Topic: 5368 Message: 5368

FOR SALE:

160m, 80m, 40m, 20m, 6m, 2m original, old FT243 rocks... for CW and AM etc.

Several people have asked for the availability of some original amateur band FT243 Crystals.

I do have a limited number of these for 80m, 40m, 20m, 6m and 2m bands.

I have a few more to add yet on 40m - 6m - 2m but the rest are ready...
The list and buying buttons can be found at:

http://www.af4k.com/FT243_CRYSTALS_Originals.htm

73 de AF4K, Bry

[Non-text portions of this message have been removed]

5369. Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 03:57:18 UTC
From: w5kd
Topic: 5369 Message: 5369

I have a Drake B-line that I have had for 15 plus years. I has been is storage for 10 plus years. I am interested in bring it out of storage and restore it. The station consists of a R4B, T4XB and AC-4 Power Supply with speaker & cabinet.

My question is I need someone that is exprenced in restoration/refurbishing to post a set of steps that I should go through to accomplish this. I am an experience Tech (now retired)and feel confident that I can do the restoring, but would feel better to have someone that has done this to point me in the right direction.

Thank you in advance for your helps.

Will W5KD

5370. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 06:12:33 UTC
From: Richard Knoppow
Topic: 5369 Message: 5370

-----Original Message-----
>From: w5kd <w5kd@...>
>Sent: May 24, 2011 8:57 PM
>To: DrakeRadio@yahoogroups.com
>Subject: [DrakeRadio] Restoring My Drake B-Line
>
>I have a Drake B-line that I have had for 15 plus years. I has been is storage for 10 plus years. I am interested in bring it out of storage and restore it. The station consists of a R4B, T4XB and AC-4 Power Supply with speaker & cabinet.
>
>My question is I need someone that is exprenced in restoration/refurbishing to post a set of steps that I should go through to accomplish this. I am an experience Tech (now retired)and feel confident that I can do the restoring, but would feel better to have someone that has done this to point me in the right direction.
>
>Thank you in advance for your helps.
>
>Will W5KD
>

Step one is to order the CD of service information offered by Garey Burrell, there is a lot of stuff there that is not available anywhere else. Another step is to order the rebuild kit for the AC-4 made by The Heathkit Shop, it replaces all the perishable items such as filter caps and diodes and puts all on a circuit board. Easy to install and not expensive. Other than that clean all the switches. My guess is that it all works but keep in mind that electrolytic caps don't like being in storage. You can test the AC-4 on its own by shorting the switch pins on the plug and measuring the voltage. The one that is critical is the bias voltage, if its not there the final tubes will be ruined very quickly.

5371. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 11:24:16 UTC
From: Don Cunningham
Topic: 5369 Message: 5371

One step Richard left out is to order the capacitor replacement kits for the R4B/T4XB from Hayseed Hamfest (www.hayseedhamfest.com) to replace those electrolytic capacitors with good quality, original looking replacements. I also replace the paper ones with orange drops or similar capacitors from Mouser (www.mouser.com). Finally, the cathode resistors on the T4XB (15 ohm 1 watt, if memory serves) are likely very high and should be replaced. I'm sure Garey will have more ideas when he awakes, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5372. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 13:15:43 UTC
From: Garey Barrell
Topic: 5369 Message: 5372

Will -

You've had some good advice so far.....

Certainly replacing all electrolytic caps in all three pieces is the safest and best approach. It will make them good for another 30 years. I don't replace the film capacitors routinely as they seem to be fine in almost all cases, and are easy to troubleshoot IF they cause a problem.

If you just can't stand it, you CAN turn them on while you're waiting for the new caps to arrive! FIRST, check the fuses in both units. The AC-4 should have a 5A fuse, (replace with a 6-1/4A if necessary), and the R-4B should have a 3/4A Slo Blo.

Wire a power cord with a series connected light bulb, put in a 60W bulb, plug in the receiver and turn it on. The bulb should glow brightly for a second or two and then dim as the receiver warms up. If the receiver seems to be working ok short the bulb or plug directly into the line. If the receiver works with no hum or other apparent problems it should be safe to use. DO NOT run it unattended for at least several hours just to be careful.

Use the same cord on the AC-4 with a 100W bulb. Again the bulb should glow brightly for a second or two and then dim. Be sure and set the controls as described in the manual before turn-on, especially that the FUNCTION switch is in SSB. WATCH the PLATE meter, if ANY current is shown, shut down immediately. IF ok, turn GAIN to minimum, switch to CW, and quickly adjust the BIAS control on the AC-4 for 70 mA of PLATE current. If all ok, again safe to use but ONLY when ATTENDED. IF the BIAS supply fails, the transmitter will 'key', and the PA tubes and/or other components WILL be destroyed unless shut down immediately!

If you're more patient than I am, just wait for the new caps and rework to be done! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w5kd wrote:
> I have a Drake B-line that I have had for 15 plus years. I has been is storage for 10 plus years. I am interested in bring it out of storage and restore it. The station consists of a R4B, T4XB and AC-4 Power Supply with speaker& cabinet.
>

> My question is I need someone that is exprenced in restoration/refurbishing to post a set of steps that I should go through to accomplish this. I am an experience Tech (now retired)and feel confident that I can do the restoring, but would feel better to have someone that has done this to point me in the right direction.
>
> Thank you in advance for your helps.
>
> Will W5KD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>

5373. R4A vol control

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 15:02:40 UTC
From: jim seeber
Topic: 5373 Message: 5373

I've acquired a nice r4a that works great, just one nit that I was aware of when buying, there are 3 or 4 spots when adjusting the volume that are very noisy, so wonder if popping the hood and hosing it with contact cleaner is advisible. guess it cant hurt as it is already flakey.
tnx Jim kw3u

5374. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 15:23:50 UTC
From: Richard Knoppow
Topic: 5369 Message: 5374

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 25, 2011 6:15 AM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

> Will -
>
> You've had some good advice so far.....
>
> Certainly replacing all electrolytic caps in all three
> pieces is the
> safest and best approach. It will make them good for
> another 30 years.
> I don't replace the film capacitors routinely as they seem
> to be fine in
> almost all cases, and are easy to troubleshoot IF they
> cause a problem.
>
> If you just can't stand it, you CAN turn them on while
> you're waiting
> for the new caps to arrive! FIRST, check the fuses in
> both units. The
> AC-4 should have a 5A fuse, (replace with a 6-1/4A if
> necessary), and
> the R-4B should have a 3/4A Slo Blo.
>
> Wire a power cord with a series connected light bulb, put
> in a 60W bulb,
> plug in the receiver and turn it on. The bulb should glow
> brightly for
> a second or two and then dim as the receiver warms up. If
> the receiver
> seems to be working ok short the bulb or plug directly
> into the line.
> If the receiver works with no hum or other apparent
> problems it should
> be safe to use. DO NOT run it unattended for at least
> several hours
> just to be careful.
>
> Use the same cord on the AC-4 with a 100W bulb. Again the
> bulb should
> glow brightly for a second or two and then dim. Be sure
> and set the

> controls as described in the manual before turn-on,
> especially that the
> FUNCTION switch is in SSB. WATCH the PLATE meter, if ANY
> current is
> shown, shut down immediately. IF ok, turn GAIN to
> minimum, switch to
> CW, and quickly adjust the BIAS control on the AC-4 for 70
> mA of PLATE
> current. If all ok, again safe to use but ONLY when
> ATTENDED. IF the
> BIAS supply fails, the transmitter will 'key', and the PA
> tubes and/or
> other components WILL be destroyed unless shut down
> immediately!
>
> If you're more patient than I am, just wait for the new
> caps and rework
> to be done! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

I think it would be useful to have a check list with a procedure for firing up equipment which has been in storage for long periods. Much will be generic and applicable to anything, some will be specific to a given equipment. To some degree the same procedures will work for both vacuum tube and solid state equipment.
While electrolytic capacitors do become degraded when stored for long periods without a charge they often stay good for surprizingly long periods and should not be changed simply because of age. They can be tested for leakage and capacitance value.
Many other components will age well and should not be changed without checking them. This applies to carbon composition resistors. While they tend to go up in value with age not all do and the change varies a lot with the brand. In particular Ohmite and Allen-Bradley resistors seem to stay quite stable.
Old paper capacitors should mostly be changed out on sight. The poor ageing of these caps was well known when they were made, however much Drake equipment has no paper caps but rather plastic film capacitors, which are very stable and long lived. The same is true of disc ceramic capacitors except for some of the very high K types. COG

caps are very stable and extremely long lived. Failures in ceramic caps come mainly from cracking due to stress on the leads.
There are mechanical problems with all old equipment.
Drake uses screws to make ground connections in many places. When some oxidation forms around the screw the resistance of the connection becomes high. The cure is simply to work the screw to clean its contact with the chassis.
Any type of plug is subject to corrosion and should be worked or cleaned.
All types of switches are subject to corrosion and should be treated with a contact cleaner and worked many times to clean the surfaces. Sometimes the application of a special grease like General Cement Tuner-Lub will help to prevent re-oxidation of cleaned contacts.
The same is true of tube sockets and pins. Sockets can be cleaned with contact cleaner by working the tube in the socket. Tube pins sometimes become corroded enough to require cleaning with a wire brush. This should be tried when one finds a tube that is inconsistent or that checks OK on a tube checker but doesn't work. Sometimes the sockets contact a different part of the pin so the tube will work in one socket but not the other.
Its possible for solder joints to become high in resistance due to chemical changes in the solder or mechanical stress or failure of the original soldering to properly melt and flow the solder. Sometimes these are known as "sugar" joints because the crystalization of the solder looks like sugar. The cure is to heat the joints and re-flow the solder with, perhaps the addition of a small amount of new solder and flux.
Dirt is always the enemy but sometimes cleaning will do more damage than leaving things a bit dirty. Its always better to keep things clean to begin with.
Thats what I come up with off the top of my head, I am sure others can add to this.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5375. Re: [DrakeRadio] R4A vol control

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 15:27:05 UTC
From: Richard Knoppow
Topic: 5373 Message: 5375

----- Original Message -----
From: "jim seeber" <wb3gnj@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 25, 2011 8:02 AM
Subject: [DrakeRadio] R4A vol control

> I've acquired a nice r4a that works great, just one nit
> that I was
> aware of when buying, there are 3 or 4 spots when
> adjusting the
> volume that are very noisy, so wonder if popping the hood
> and hosing
> it with contact cleaner is advisible. guess it cant hurt
> as it is
> already flakey.
> tnx Jim kw3u
>
Contact cleaner works on pots but there is a special
cleaner for pots made by Caig labs who make Deoxit. This has
a lubricant in it which will keep the pot from becoming
noisy again.
It _is_ possible for a pot to have a damaged resistance
element so one that is persistently noisy or intermittant
will probably have to be replaced but cleaning is always
worth trying.
I should have included pots in my little list of things
to check on equipment which has been in storage.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5376. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 19:02:19 UTC
From: Don Cunningham
Topic: 5369 Message: 5376

Sorry, Richard. Although I agree with a lot of what you posted, I think it bad policy to NOT recommend replacement of these old electrolytics. They are just too cheap to risk the power transformer in the R4(x) (unobtainium, unless you find a donor), and the finals et al in the T4X(x) if (NO when) the bias supply fails!!! The other caps, resistors, etc. are owner's choice, but I won't "re-start" any old boatanchor without replacing the electrolytics (and Black Beauties, if appropriate). I may be wrong, but I haven't lost the unobtainium parts yet, and will continue to advise newer list members to do the same. My .02 worth, and not worth that much.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5377. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 20:12:57 UTC
From: Garey Barrell
Topic: 5369 Message: 5377

Don -

This discussion comes up every once in a while.

Certainly if you just want to 'fix and forget it', replacing all electrolytics and _paper_ capacitors is a reasonable approach. IF this is your ONLY station, or a piece of critical equipment, replacement makes sense in the interest of reliability.

That said, the fact remains that there are literally thousands of Drake radios out there with the original electrolytics in them, and working fine.

When I get a 'new' radio, the FIRST thing I do is check the fuse. You wouldn't believe the things I have found in those fuse holders. Anything from an aluminum foil wrapped fuse to a piece of #8 copper wire! Needless to say, ANY sort of failure under these conditions is a death sentence for the radio, and perhaps for others if you typically leave your equipment 'ON' and unattended.

The next thing I do is hang the ESR meter on each electrolytic. Over many years of acquiring, and (very occasionally) selling Drake and a few other brands of radio gear, I have only found four or five defective capacitors with the ESR meter. High ESR is a definitive indication of a failing or failed electrolytic. It may or may not short, but certainly ripple levels (hum) will increase. Obviously if there is one section bad in a multi-section cap the whole thing is replaced. Only ONE capacitor was found that was actually shorted. The light-bulb trick will find and protect against this one too.

As an aside, 'modern' DC-DC converter power supplies are capacitor killers. I have yet to find a display monitor or other similar unit with a DC-DC converter power supply that did NOT have at least a couple of high ESR caps. The higher ripple currents just (h)eat caps up.

I have found a couple of leaky film capacitors in Drake gear in the last few years, but it is still quite rare, and because of where they are used excess leakage is quickly apparent in operation of the unit. I also VERY seldom find a defective tantalum (epoxy dipped) unless it is being operated very near it's voltage rating, and so don't routinely replace those either.

Even less common is failure of the disk ceramic caps Drake used. The "+80 / -20, @ 16V" is the most common one to fail, followed by the larger value high voltage (0.1 @ 600V) and last the smaller ceramic bypass caps that rarely fail, and the ones that do almost always have had their leads stretched enough to break the encapsulation material.

The carbon comp resistors that Drake used were very high quality, typically Allen-Bradley, and again are almost always within tolerance _unless_ the radio has obviously been mistreated. You know the ones I mean, they look like they have been stored in a chicken coop for the last 40 years. VERY occasionally one of the very high value resistors 6.8 - 22M will go up in value, but in most cases the circuit will still work as designed.

One last thing and I'll shut up. The Voltage and especially the Resistance tables in the Drake manuals are not always accurate. There are cases where the schematic has changed, changing, adding or removing a resistor, and the table is unchanged. Another difficulty with the Voltage table is that the Grid of oscillator tubes MUST be measured with a VTVM, with the 1M resistor in the probe tip, to get an accurate reading. Most any DMM lead will kill the oscillator, drastically altering the reading. If you don't have a VTVM (?) wrapping a 1M resistor around the probe tip and probing with the other lead will give you a reading about 10% low with most DMMs. The Resistance tables, especially the readings that go back through the power supply filter caps, are highly inaccurate. The value of the resistors are secondary to the parallel paths encountered, as well as the polarity of the Ohmmeter probes. If you get a strange reading on one of these, reverse the meter probes. The reading may be closer, or it may be even further off! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Sorry, Richard. Although I agree with a lot of what you posted, I think it bad policy to NOT recommend replacement of these old electrolytics. They are just too cheap to risk the power transformer in the R4(x) (unobtainium, unless you find a donor), and the finals et al in the T4X(x) if (NO when) the bias supply fails!!! The other caps, resistors, etc. are owner's choice, but I won't "re-start" any old boatanchor without replacing the electrolytics (and Black Beauties, if appropriate). I may be wrong, but I haven't lost the unobtainium parts yet, and will continue to advise newer list members to do the same. My .02 worth, and not worth that much.
> 73,
> Don, WB5HAK
>
>

5378. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-25 21:57:43 UTC
From: Don Cunningham
Topic: 5369 Message: 5378

Garey,
First, I don't EVER want you to "shut up" at all!!! Every time you post I learn enough valuable information that I save the message. I can't get you to write up your "Drake Diagnostics" book for all of us to buy, so I'm saving the bits as I get them, HI.

I never disagree with your recommendations, but am finding (off line mostly) that some of the guys are new to this "old" gear, and don't have the test equipment that even I do, much less some of you that are much smarter than me (you, Evan, Gary, Ron, Jim, Dino, etc etc). I just hate to discourage them with the posts that alude to buying a BUNCH of expensive test gear just to maintain a fun rig. I have found over the years that if I replace the parts I mentioned, the Drakes play nicely for years, with only occasional hiccups. I do think it would be good if one of you "guru's" would post what test equipment we should have to properly care for our Drakes sometime. Not the "optimum", but reachable. I think all hams should have a good meter (voltage, resistance, etc) as they are essential, but then I have gone a little overboard otherwise. Also, I'm not sure that the ESR meter that I bought after you recommended it is still available, and the ones I find are pretty pricey. My kit was under $75, and worth every penny.

As you said, few of the caps I replace fail the ESR test, so I may be wasting money, but at least Tom has my picture back on the piano since I have bought several, hi. I too feel the replacing of the film ones is probably a waste of money, but I feel better. The resistor I find most that has drifted up are the cathode resistors, that's why I mentioned them. ALL of the ones I have replaced were 20 ohms or higher, so maybe the previous owners abused them some.

Now it's DEFINITELY time for me to shut up, what little I know.

73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5379. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 01:49:16 UTC
From: ALAN PHILLIPS
Topic: 5369 Message: 5379

Hi Don and Garey:

I recapped my TR4 and B line a couple of years past, but forgot the black beauties on the various boards. Have they been known to cause problems?

Do they self destruct or screw up the circuit? Should they be replaced with orange drops as a preventative?
thanks ..Al kc9ys

From: Don Cunningham <donc@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, May 25, 2011 6:24:16 AM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

One step Richard left out is to order the capacitor replacement kits for the R4B/T4XB from Hayseed Hamfest (www.hayseedhamfest.com) to replace those electrolytic capacitors with good quality, original looking replacements. I also replace the paper ones with orange drops or similar capacitors from Mouser (www.mouser.com). Finally, the cathode resistors on the T4XB (15 ohm 1 watt, if memory serves) are likely very high and should be replaced. I'm sure Garey will have more ideas when he awakes, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5380. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 01:53:08 UTC
From: Don Cunningham
Topic: 5369 Message: 5380

Alan,
To my knowledge, there are NO black beauty caps in any of the drakes. Some of the "film" caps are black, but not the infamous ones.
They should be fine, even though I replaced mine, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5381. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:02:19 UTC
From: Garey Barrell
Topic: 5369 Message: 5381

Al -

No 'Black Beauties' in Drake. There are a couple of film caps with
black sleeves and white ends, but those are fine.

'Black Beauties' refer to a much earlier capacitor made by Sprague.
They were oiled paper and foil that was packaged in a plastic housing.
They were notorious for leaking oil from cracks where the leads came
out, VERY leaky (electrically), and generally junk. There is another
variety very similar in construction that had very narrow color stripes,
similar to resistor color codes, but very narrow lines and wide spaced,
called 'bumble bees'. They are still highly 'prized' by guitar amp
guys, whose primary goal is distortion. A leaky coupling cap biases the
grid positive, causing tremendous distortion in an amplifier.
Unfortunately, (or fortunately,?) they are highly variable, and of
course get worse with use. They could get similar, stable, results by
putting a high value resistor in parallel with a 'good' cap, but .....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Don and Garey:
>
> I recapped my TR4 and B line a couple of years past, but forgot the black
> beauties on the various boards. Have they been known to cause problems?
>
> Do they self destruct or screw up the circuit? Should they be replaced with
> orange drops as a preventative?
> thanks ..Al kc9ys
>
>

5382. RE: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:04:58 UTC
From: Jim Chaggaris
Topic: 5369 Message: 5382

Al,

No BB's that I know of…

BTW, you need a 120MM fan grill for those 120VAC fans Evan gave us. I might have an extra floating around…

Also, I found a nice polishing compound that gets any scratch out of silver finished front panels. Going to try on the Galaxy's and B-Line's edges.

73,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS
Sent: Wednesday, May 25, 2011 8:49 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

Hi Don and Garey:

I recapped my TR4 and B line a couple of years past, but forgot the black beauties on the various boards. Have they been known to cause problems?

Do they self destruct or screw up the circuit? Should they be replaced with orange drops as a preventative?
thanks ..Al kc9ys

From: Don Cunningham <donc@... <mailto:donc%40martineer.net> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Wed, May 25, 2011 6:24:16 AM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

One step Richard left out is to order the capacitor replacement kits for the R4B/T4XB from Hayseed Hamfest (www.hayseedhamfest.com) to replace those electrolytic capacitors with good quality, original looking replacements. I also replace the paper ones with orange drops or similar capacitors from Mouser (www.mouser.com). Finally, the cathode resistors on the T4XB (15 ohm 1 watt, if memory serves) are likely very high and should be replaced. I'm sure Garey will have more ideas when he awakes, hi.
73,
Don, WB5HAK

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5383. R4B Preselector Planetary Drive

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:13:23 UTC
From: wa4bhk
Topic: 5383 Message: 5383

I'm looking for the Preselector Planetary Drive for my R4B. Does anyone have a parts rig that has the drive? Looks like the R4A and R4C also uses the same part so an A or C parts rigs would also have the drive. Let me know if you have one. Thanks
Lawrence, WA4BHK

5384. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:25:25 UTC
From: Paul Christensen
Topic: 5369 Message: 5384

> "No 'Black Beauties' in Drake. There are a couple of film caps with
black sleeves and white ends, but those are fine."

I'm guilty. I recently replaced mine in an R-4B, thinking they were black beauties. No difference in performance detected after I replaced them with "yellow jackets." Since then, I've acquired a Sencore LC-102 cap analyzer to better assist with these decisions in the future.

> They are still highly 'prized' by guitar amp guys, whose primary goal is distortion. A leaky coupling cap biases the grid positive, causing tremendous distortion in an amplifier.

Darn, there are easier and less expensive ways to accomplish that goal but try reasoning with them. I find it incredible that some folks are paying more than $20 ea. for these old, leaky caps that have been cut out of old 1950s era equipment.

Paul, W9AC

[Non-text portions of this message have been removed]

5385. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:36:34 UTC
From: William Houghton
Topic: 5369 Message: 5385

Anyone have a photo of these bumble bees? I had thought they were black beauties? What rae the ones with the blue bodies?

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, May 25, 2011 7:02:19 PM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

Al -

No 'Black Beauties' in Drake. There are a couple of film caps with black sleeves and white ends, but those are fine.

'Black Beauties' refer to a much earlier capacitor made by Sprague. They were oiled paper and foil that was packaged in a plastic housing. They were notorious for leaking oil from cracks where the leads came out, VERY leaky (electrically), and generally junk. There is another variety very similar in construction that had very narrow color stripes, similar to resistor color codes, but very narrow lines and wide spaced, called 'bumble bees'. They are still highly 'prized' by guitar amp guys, whose primary goal is distortion. A leaky coupling cap biases the grid positive, causing tremendous distortion in an amplifier. Unfortunately, (or fortunately,?) they are highly variable, and of course get worse with use. They could get similar, stable, results by putting a high value resistor in parallel with a 'good' cap, but .....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Don and Garey:
>
> I recapped my TR4 and B line a couple of years past, but forgot the black
> beauties on the various boards. Have they been known to cause problems?
>
> Do they self destruct or screw up the circuit? Should they be replaced with
> orange drops as a preventative?
> thanks ..Al kc9ys
>
>

[Non-text portions of this message have been removed]

5386. RE: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 02:47:41 UTC
From: Jim Chaggaris
Topic: 5369 Message: 5386

<http://angela.com/images/products/detail/230355602737.jpg>
http://angela.com/images/products/display/230355602737.jpg

Best Regards,

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of William Houghton
Sent: Wednesday, May 25, 2011 9:37 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

Anyone have a photo of these bumble bees? I had thought they were black beauties? What rae the ones with the blue bodies?

From: Garey Barrell <k4oah@... <mailto:k4oah%40mindspring.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Wed, May 25, 2011 7:02:19 PM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

Al -

No 'Black Beauties' in Drake. There are a couple of film caps with black sleeves and white ends, but those are fine.

'Black Beauties' refer to a much earlier capacitor made by Sprague. They were oiled paper and foil that was packaged in a plastic housing. They were notorious for leaking oil from cracks where the leads came out, VERY leaky (electrically), and generally junk. There is another

variety very similar in construction that had very narrow color stripes, similar to resistor color codes, but very narrow lines and wide spaced, called 'bumble bees'. They are still highly 'prized' by guitar amp guys, whose primary goal is distortion. A leaky coupling cap biases the grid positive, causing tremendous distortion in an amplifier. Unfortunately, (or fortunately,?) they are highly variable, and of course get worse with use. They could get similar, stable, results by putting a high value resistor in parallel with a 'good' cap, but .....

73, Garey - K4OAH
Glen Allen, VA

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and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Don and Garey:
>
> I recapped my TR4 and B line a couple of years past, but forgot the black
> beauties on the various boards. Have they been known to cause problems?
>
> Do they self destruct or screw up the circuit? Should they be replaced with
> orange drops as a preventative?
> thanks ..Al kc9ys
>
>

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[Non-text portions of this message have been removed]

5387. Re: Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 03:03:27 UTC
From: w5kd
Topic: 5369 Message: 5387

Don, Richard and Garey,

First I would like to thank each of you for taking the time to provide the kind of information that I was looking for. I will read and re-read all the information you have provided and then begin the list of items I need to at least start restoring the old Drake B-line.

The equipment was functioning perfectly when I stored it away. The reason for storing it was a move from one part of the country to another. It has been in storage for at least 10 years. It has been keep in a good location and has not be stored where it would come in contact with any mositure. The reason I have never taken it out of storage is beacuse I purchased (new) an ICOM 746PRO and it has been my number one rig since 2002. I recently joined this Yahoo Group and have read many of the posts. It started me to thinking about my old Drake gear. At one time it was my number one station and it was a pleasure to operate.

I no longer have a full setup of test equipment, but don't think I would need it to take the steps suggested. It would be nice to have a scope, signal generator etc once again, but at my age I can't justify spending the money to just restore three pieces of equipment.

Once again many thanksfor the quick response to my questions. I will keep you posted as to my progress. If you think of any other ideas please post them here as I will check the posting often. One other thing I do have all the manuals.

73,
Will W5KD

--- In DrakeRadio@yahoogroups.com, "w5kd" <w5kd@...> wrote:
>
> I have a Drake B-line that I have had for 15 plus years. I has been is storage for 10 plus years. I am interested in bring it out of storage and restore it. The station consists of a R4B, T4XB and AC-4 Power Supply with speaker & cabinet.
>
> My question is I need someone that is exprenced in restoration/refurbishing to post a set of steps that I should go through to accomplish this. I am an experience Tech (now retired)and feel confident that I can do the restoring, but would feel better to have someone that has done this to point me in the right direction.
>
> Thank you in advance for your helps.
>
> Will W5KD
>

5388. RE: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 03:42:16 UTC
From: Jim Shorney
Topic: 5369 Message: 5388

On Wed, 25 May 2011 21:04:58 -0500, Jim Chaggaris wrote:

>
>Also, I found a nice polishing compound that gets any scratch out of silver finished front panels. Going to try on the Galaxy's and B-Line's edges.

And you're not going to tell us what it is? :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5389. RE: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 04:05:12 UTC
From: Jim Chaggaris
Topic: 5369 Message: 5389

Hi Jim,

Simichrome. Only a small amount and quickly wipe off. It's great for small hairline scratches and a little goes a long way.

73,

Jim N9WW

Jim Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Jim Shorney
Sent: Wednesday, May 25, 2011 10:42 PM
To: DrakeRadio@yahoogroups.com
Subject: RE: [DrakeRadio] Restoring My Drake B-Line

On Wed, 25 May 2011 21:04:58 -0500, Jim Chaggaris wrote:

>
>Also, I found a nice polishing compound that gets any scratch out of silver finished front panels. Going to try on the Galaxy's and B-Line's edges.

And you're not going to tell us what it is? :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.

TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5390. RE: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 04:07:24 UTC
From: Jim Shorney
Topic: 5369 Message: 5390

On Wed, 25 May 2011 23:05:12 -0500, Jim Chaggaris wrote:

>
>Simichrome. Only a small amount and quickly wipe off. It's great for small
>hairline scratches and a little goes a long way.

Thanks for the tip!

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5391. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 06:34:07 UTC
From: Richard Knoppow
Topic: 5369 Message: 5391

----- Original Message -----
From: "William Houghton" <rdrbill@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, May 25, 2011 7:36 PM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

Anyone have a photo of these bumble bees? I had thought they
were black
beauties? What rae the ones with the blue bodies?

There were a number of similar caps made at the time.
The blue cased ones may be "Cub" caps made by
Cornell-Dublier. There were a wide variety of Bakelite
encapsulated caps around the late 1940 and 1950's. They were
supposed to be more resistant to degradation by moisture
absorption than the earlier caps in wax filled paper tubes.
The BB caps also used plastic impregnated paper, supposed to
be more stable and have lower loses and better temperature
characteristics than plain paper caps. Unfortunately, there
were evidently production problems with the BB's causing
early failure. They were _supposed_ to be deluxe, high
performance caps and I suspect were a disaster for Sprague.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5392. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 13:42:19 UTC
From: Garey Barrell
Topic: 5369 Message: 5392

Here is a photo, (along with commentary!,) of Bumble Bees and Black Beauties. There is another type (Brand?) of Bumble Bee that has very, very thin, separated, color stripes.

One easy way to spot troublesome caps, regardless of brand, is to look for a longitudinal 'seam', with the leads coming out from between the two halves. Later, better quality caps are assembled like the ones in Drake gear, tube body, filled with epoxy, or Orange Drop types just molded in epoxy. Of course, aside from the construction, the switch from various types of paper impregnated with oil to poly film for the capacitor insulation layers greatly improved stability and leakage characteristics.

Looking for this photo <http://tinyurl.com/3w7453w>, I came across several mentions of 'aftermarket' Bumble Bees apparently being manufactured today for guitar aficionados.!!* <*http://tinyurl.com/3uopumg>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
>
> Anyone have a photo of these bumble bees? I had thought they were black
> beauties? What rae the ones with the blue bodies?
>
>
> _____
> From: Garey Barrell<k4oah@...>
>
>
> Al -
>
> No 'Black Beauties' in Drake. There are a couple of film caps with
> black sleeves and white ends, but those are fine.
>
>

5393. Re: [DrakeRadio] Restoring My Drake B-Line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 16:50:24 UTC
From: Richard Knoppow
Topic: 5369 Message: 5393

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, May 26, 2011 6:42 AM
Subject: Re: [DrakeRadio] Restoring My Drake B-Line

>
> Here is a photo, (along with commentary!,) of Bumble Bees
> and Black
> Beauties. There is another type (Brand?) of Bumble Bee
> that has very,
> very thin, separated, color stripes.
>
> One easy way to spot troublesome caps, regardless of
> brand, is to look
> for a longitudinal 'seam', with the leads coming out from
> between the
> two halves. Later, better quality caps are assembled like
> the ones in
> Drake gear, tube body, filled with epoxy, or Orange Drop
> types just
> molded in epoxy. Of course, aside from the construction,
> the switch
> from various types of paper impregnated with oil to poly
> film for the
> capacitor insulation layers greatly improved stability and
> leakage
> characteristics.
>
> Looking for this photo <http://tinyurl.com/3w7453w>, I
> came across
> several mentions of 'aftermarket' Bumble Bees apparently
> being
> manufactured today for guitar aficionados.!!*
> <*http://tinyurl.com/3uopumg>
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
The multiple colored rings were a standard method of
coding capacitor values and were used by several
manufacturers. There was at least one other brand of plastic
cased paper caps with stripes, these were in a white case.
Other, similar, caps, including the later Sprague Telecap,

had the values stamped on the body rather than the stripes. Sprague Telecaps look just like Black Beauties but are described as _dry_ in the Sprague ads. But one line of the ad says something like these Black Beauties... I think the early failure of BB caps became apparent within a couple of years of their manufacture. All paper caps become degraded with time. I've seen several explanations of this but don't know which is the right one. When these caps were current there were voltage derating charts for them, the lower the operating voltage compared to the rated voltage the longer the expected life was. At rated voltage all paper caps had lifetimes of around two years, at half voltage around ten years or longer. Part of the problem was supposed to be chemical changes in the paper due to the applied voltage. Impregnating the paper with oil or wax increased its dielectric constant allowing thicker paper to be used for the same capacitance thus increasing the allowable voltage. Oil caps were very common for high voltage purposes and were supposed to be more stable with time than wax impregnated or plain paper caps.

The Sprague Black Beauty and other caps of the time used paper which was impregnated with plastic and had molded plastic cases. The idea was to improve both the dielectric characteristics and stability of the cap and to protect it from moisture. Some of these, like the BB's, were also impregnated with oil. The BB cap had an oil-filling tube at one end which served as one of the connecting leads. The tube was sealed after filling by inserting the lead wire in it and soldering. If the heat applied to the lead when installing the cap is too high the solder will melt allowing the oil to leak out. That causes rather rapid failure of the cap. I think, however, that this was not the only problem with BB's, for instance, I have dissected several BB caps including some that were intact and still had oil in them. _All_ had distorted windings. I don't know the cause of this but suspect the process of molding the cases may have distorted the windings. Also, it was a common practice to fine tune the value of a cap by compressing the winding a bit but that changes too many other things and I don't think its what I am seeing. BB caps have a reputation for cracking and splitting which tends to reinforce my idea that there was a problem with either the material or process used for molding. Other plastic encased caps do not seem to have this problem. Unfortunately, BBs were widely used in some very high quality equipment.

While BB caps seem to have a set of vices all their own all paper caps become degraded with time. If the application is such that the voltage on the cap is well below its rating the life can be very long but all will eventually develop low capacitance and increased dissipation. These effects are

mostly not true of modern film or high quality ceramic caps
although some are better than others. Measured dissipation
factor and leakage of modern film caps is vastly better than
what I get from older paper caps even those in good
condition.
BTW, its important to check parallel resistance AKA
leakage. While this is known to be important for
electrolytic caps it can also be a problem for non-polar
types. I have some molded paper caps which check OK for
value and dissipation but have high enough leakage to make
them non-functional in the circuits they were used in. This
is especially important for coupling caps and cathode or
emitter by-pass caps where leakage can affect the bias on
the active element.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5394. L75 Output Tank Circuit Improvements

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 20:34:51 UTC
From: gmendenh1947
Topic: 5394 Message: 5394

Any suggestions on improving the L75 output tank circuit inductors?

5395. L75 Output Tank Circuit switch wafers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-26 20:33:45 UTC
From: gmendenh1947
Topic: 5395 Message: 5395

Looking for replacement band switch wafers for L75 output tank circuit or suggestions on how to repair the contacts on existing switch wafers.

5396. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-29 18:38:22 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5396

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5397. UV-3 Manual for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 17:06:46 UTC
From: Dan Galligan
Topic: 5397 Message: 5397

Hi all. I am in process of preparing to move, and recently found the original manual for the UV-3, that I sold a couple of years ago. When I sold the radio, I thought I had it, but could not locate it, or the manual for my Kenwood, and had to sell the radio, without the manual. A couple of weeks ago, I found those two manuals, plus a few others I had forgotten I had, in an obscure location in the house. The others are for radios that I either currently own, or am likely to buy another, so I'll hold on to them, but, I don't see myself ever getting another UV-3, so it seems only right to get the manual in the hands of someone who would appreciate having it.I tried to go through the records of where I sold my UV-3, but can't find who bought it, so I'll offer it up here. It is in pretty good shape, and it does not appear to have any pages missing. I can take and email pictures, if anyone is interested. I am not looking to make money on it, I figure $5 plus actual shipping costs, should make it worth my time and gas to take a trip to the Post Office, to send it to someone, but if there is no interest in it, here, I'll then offer it up on eekBay, QTH and QRZ, for whatever the market value is. If interested, please reply to me direct, at w3rxo at mac dot com.

5398. Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 17:14:07 UTC
From: Don Cunningham
Topic: 5398 Message: 5398

If there is anyone restoring a TR6 or RV6, I have a NOS dial that I got in a buy with an R4B. It was supposed to be for the R4B, obviously, but it tunes backwards from the R4B, and Garey confirmed it to be for the "6" series gear. If anyone needs it, contact me and we can make arrangements to get it to you.
73,
Don, WB5HAK

5399. Re: [DrakeRadio] Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 17:26:01 UTC
From: Mr James Sullivan
Topic: 5398 Message: 5399

Don, I am interested in it. I have a TR-6 that is ready for restoration. Jim - WB6TNF

From: Don Cunningham <donc@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, May 30, 2011 10:14:07 AM
Subject: [DrakeRadio] Dial

If there is anyone restoring a TR6 or RV6, I have a NOS dial that I got in a buy with an R4B. It was supposed to be for the R4B, obviously, but it tunes backwards from the R4B, and Garey confirmed it to be for the "6" series gear. If anyone needs it, contact me and we can make arrangements to get it to you.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5400. Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 17:38:52 UTC
From: Don Cunningham
Topic: 5400 Message: 5400

Someone jumped quickly, so the dial is spoken for.
73,
Don, WB5HAK

5401. DrakeRadio-unsubscribe@yahoogroups.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 17:41:00 UTC
From: Dennis
Topic: 5401 Message: 5401

[Body unavailable in the source archive]

5402. Re: [DrakeRadio] Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 18:06:22 UTC
From: Jim Shorney
Topic: 5398 Message: 5402

On Mon, 30 May 2011 12:14:07 -0500, Don Cunningham wrote:

>If there is anyone restoring a TR6 or RV6, I have a NOS dial

And whoever gets it, can you PLEASE make a hi-res scan of it before you use it
so it will be on file for future repro use?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5403. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 18:15:31 UTC
From: Garey Barrell
Topic: 5400 Message: 5403

Don -

Jim brought up a good point. I have scans of quite a few already, and just waiting until I can get some cash together to make some repros. I have a company to make them, but minimums are a little too big to take a chance on right now.

If you can scan at 600 dpi, scan it 'face down', i.e., through the plastic, and 'face up', lettering right on the scanner.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Someone jumped quickly, so the dial is spoken for.
> 73,
> Don, WB5HAK
>
>
>

5404. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 18:29:52 UTC
From: Jim Shorney
Topic: 5400 Message: 5404

On Mon, 30 May 2011 14:15:31 -0400, Garey Barrell wrote:

>
>Jim brought up a good point. I have scans of quite a few already, and
>just waiting until I can get some cash together to make some repros.

I've been trying to remember to do this when I have a radio that far disassembled, but so far I've only got Siltronix 1011C and Heath HW-7 (damaged). I don't have any plans to do repros myself at the moment, but I think it would be a good idea to build a library. Whatever I do get will be available to whoever wants it.

I'm also trying to do more photo documentation of radio internals. Just did a TR-33C yesterday. Re-scanning original manuals and adding better photos may be in future plans (wonder where I got THAT idea...). One of my pet peeves is the abysmal quality of 90% of the scanned manuals on the internet.

Not to worry, I won't be duplicating the effort you've put into your CDs. :)

73

-Jim

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5405. Re: [DrakeRadio] UV-3 Manual for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 19:53:28 UTC
From: Dan Galligan
Topic: 5397 Message: 5405

The manual is sold.
Thanks Bruce. I appreciate your purchase.

73,
Dan

On May 30, 2011, at 10:06 AM, Dan Galligan wrote:

Hi all. I am in process of preparing to move, and recently found the original manual for the UV-3, that I sold a couple of years ago. When I sold the radio, I thought I had it, but could not locate it, or the manual for my Kenwood, and had to sell the radio, without the manual. A couple of weeks ago, I found those two manuals, plus a few others I had forgotten I had, in an obscure location in the house. The others are for radios that I either currently own, or am likely to buy another, so I'll hold on to them, but, I don't see myself ever getting another UV-3, so it seems only right to get the manual in the hands of someone who would appreciate having it.I tried to go through the records of where I sold my UV-3, but can't find who bought it, so I'll offer it up here. It is in pretty good shape, and it does not appear to have any pages missing. I can take and email pictures, if anyone is interested. I am not looking to make money on it, I figure $5 plus actual shipping costs, should
make it worth my time and gas to take a trip to the Post Office, to send it to someone, but if there is no interest in it, here, I'll then offer it up on eekBay, QTH and QRZ, for whatever the market value is. If interested, please reply to me direct, at w3rxo at mac dot com.

Yahoo! Groups Links

5406. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 22:55:02 UTC
From: Don Cunningham
Topic: 5400 Message: 5406

Garey,
Can you handle TIF files?? My old scanner outputs in that format. I have them scanned, but they are HUGE files at that resolution, about 30 megs or larger. I probably need to put them on a CD and mail them to you if you can handle that format. That's all I can do here but will see if the recipient can do better if you need me to.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5407. TR-4C Parasitic Chokes

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-30 23:30:36 UTC
From: w4rl@bellsouth.net
Topic: 5407 Message: 5407

Hi fellas,

Anyone have a source for the three parasitic suppressor chokes for the PA tubes in a TR-4C?

tnx es 73

Robert W4RL Pensacola FL

5408. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-31 00:24:27 UTC
From: Jim Shorney
Topic: 5400 Message: 5408

On Mon, 30 May 2011 17:55:02 -0500, Don Cunningham wrote:

>Can you handle TIF files??

Grab a copy of Irfanview (and the plugins) off the internet. It's free and safe, I've been using if for some time. You should easily be able to convert to a compressed format such as PNG.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5409. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-31 02:49:05 UTC
From: Garey Barrell
Topic: 5400 Message: 5409

Don -

No, that's ok. Stick 'em on a CD and drop in the mail. No rush.

Thanks!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> Can you handle TIF files?? My old scanner outputs in that format. I have them scanned, but they are HUGE files at that resolution, about 30 megs or larger. I probably need to put them on a CD and mail them to you if you can handle that format. That's all I can do here but will see if the recipient can do better if you need me to.
> 73,
> Don, WB5HAK
>
>
>

5410. Re: [DrakeRadio] Drake 6 Line Dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-31 02:50:45 UTC
From: Garey Barrell
Topic: 5400 Message: 5410

Don -

This is ok if you want to do it. Convert to PNG or even JPG if you use
'high quality'.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Mon, 30 May 2011 17:55:02 -0500, Don Cunningham wrote:
>
>
>> Can you handle TIF files??
>>
>
> Grab a copy of Irfanview (and the plugins) off the internet. It's free and
> safe, I've been using if for some time. You should easily be able to convert to
> a compressed format such as PNG.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain
3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
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>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
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> Yahoo! Groups Links
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5411. Wanted: RV-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-05-31 03:46:20 UTC
From: wb6tnf
Topic: 5411 Message: 5411

Wanted: Drake RV-6. It does not have to be pretty or mint, just restorable. Jim - WB6TNF wb6tnf@...

5412. SPR 4 LOW VOLUME OUTPUT

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-01 22:02:53 UTC
From: totofull
Topic: 5412 Message: 5412

I HAVE PROBLEMS WITH THE VOLUME OUTPUT OF MY SPR 4.SERIAL #5188. IT HAS ALL THE EXTRAS INSTALLED PLUS 23 ADITIONAL CRYSTALS.I WILL WELCOME ANY ADVISE ON THIS MATTER.
73´S FROM HI8HH, VIRGILIO

5413. C-Line Transmit Converters.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-02 23:25:17 UTC
From: Michael Mcglynn
Topic: 5413 Message: 5413

I am looking for a transmit converter for the Drake C-line to match the Recieve Converters in the CC-1. Where there any made?

Mike McGlynn
W5MJM

[Non-text portions of this message have been removed]

5414. Re: [DrakeRadio] C-Line Transmit Converters.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-03 01:36:39 UTC
From: Garey Barrell
Topic: 5413 Message: 5414

Mike -

Yes, there were two, a TC-2 and a TC-6. Both require a minor
modification to the T-4XC, 'borrow' the existing AC-4, and all switching
accomplished via the CC-1. The TC-6 uses three 6JB6 PA tubes for about
300W input, and the TC-2 uses a single 8643 for about 180W input.

Photos at
<http://www.wb4hfn.com/DRAKE/DrakeEquipmentPictures/Equip_TC2_Front.htm>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Michael Mcglynn wrote:
> I am looking for a transmit converter for the Drake C-line to match the Recieve
Converters in the CC-1. Where there any made?
>
> Mike McGlynn
> W5MJM
>
>
>

5415. Re: [DrakeRadio] C-Line Transmit Converters.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-03 01:43:39 UTC
From: Lee Hiers
Topic: 5413 Message: 5415

On Thu, Jun 2, 2011 at 9:36 PM, Garey Barrell <k4oah@...> wrote:

The TC-6 uses three 6JB6 PA tubes for about
> 300W input, and the TC-2 uses a single 8643 for about 180W input.
>
Wow, I never realized they ran that kind of power...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

[Non-text portions of this message have been removed]

5416. Re: [DrakeRadio] C-Line Transmit Converters.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-03 13:36:50 UTC
From: Garey Barrell
Topic: 5413 Message: 5416

Lee Hiers wrote:
> On Thu, Jun 2, 2011 at 9:36 PM, Garey Barrell<k4oah@...> wrote:
>
> The TC-6 uses three 6JB6 PA tubes for about
>
>> 300W input, and the TC-2 uses a single 8643 for about 180W input.
>>
>>
> Wow, I never realized they ran that kind of power...
>
>
>
Lee -

Yes, remember those are INPUT power, which is how transmitter power was measured when these were sold. OUTPUT power, which what is usually specified these days, is about 50% or a little less than those numbers. But yes, they were 'transmitters', not just converters like many of the other 'transverters' of then and now.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5417. Re: [DrakeRadio] C-Line Transmit Converters.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-03 14:49:12 UTC
From: Lee Hiers
Topic: 5413 Message: 5417

On Fri, Jun 3, 2011 at 9:36 AM, Garey Barrell <k4oah@...> wrote:

Yes, remember those are INPUT power, which is how transmitter power was
> measured when these were sold.
>

Right, but you're still talking about around 100w on 2 and 150w on 6 -
that's pretty stout!

[Non-text portions of this message have been removed]

5418. value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-06 13:45:20 UTC
From: yash@aol.com
Topic: 5418 Message: 5418

Have a very nice Drake R4/T4X/ AC-4/ MS-4 all the gear is real clean and operates just fine. My question is why is the early 4 line gear worth next to nothing, when compared to the rest of the 4 line. I have owned a B-line,a C-line in the past ,both good performers,B being my choice between the two. I find the early 4 line performance ,from my ear and operation just as good as my B-line. Of course I never had the chance to run them side by side,and the mind can play tricks, they perform so close in real life operation,they seem almost the same to me. Watching QTH and Ebay I see the 4A and 4B gear go for twice the price all most all the time ,over the 4 gear. I realize that Drake made some mechanical and operational changes thru the years,but basic radio performance is not that different. I had a full Drake/Sherwood C line , and it was the BEST of the lot,but they will go for BIG $$$ used. I was just curious, so I thought I would as a few others opinions .
thanks for reading.
dale wt4t

[Non-text portions of this message have been removed]

5419. FS: Drake MS-7 Speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 00:15:42 UTC
From: Bruce
Topic: 5419 Message: 5419

Hello,

For Sale: Drake MS-7 Speaker for the TR-7.

$75.00 with shipping included.

Thank you,

Bruce WA8TNC

5420. Re: value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 11:55:01 UTC
From: Dave Drake
Topic: 5418 Message: 5420

Hi,
There were some changes in the R4 to R4a that were desireable, mostly in the audio chain. However, I think its mostly the "age" thing for the R4 versus the R4a. Many R4's chassis are pretty ugly with corrosion. In fact, most R4a's are the same way. Now, for the T4x, that series went through to the T4xB. And not much difference there, so price is based only on age/or condition. Selling the T4x by itself should be straightforward, as well as the MS4 and AC4. Then we come to perception.

There is a perception out there that the "late" R4a or a R4B is the more desireable of the Drake lines. Hams cite mostly technical information, and some will talk about parts availability. The reality is somewhere else.

If your R4 station is above average, then it would or should be priced about the same as an early R4a, in my opinion.

If you go to www.wb4hfn.com and click on the drake area, there is a page on pricing of drake radios. I believe Ron Baker keeps it pretty well up to date.

The Ac4, is probably in need of a rebuild. Most all the Drake power supplies are now of an age that its good insurance against catastrophic failure. I've done all mine including the L4PS.

Dave
Wd9cmd

[Non-text portions of this message have been removed]

5421. DrakeRadio-unsubscribe@yahoogroups.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 12:17:30 UTC
From: Dennis
Topic: 5401 Message: 5421

DrakeRadio-unsubscribe@yahoogroups.com

5422. Re: [DrakeRadio] Re: value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 13:01:03 UTC
From: yash@aol.com
Topic: 5418 Message: 5422

Dave
thanks for the info.I would have to agree with most of your conclusions.
thanks
dale wt4t

-----Original Message-----
From: Dave Drake <dave.drake@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jun 7, 2011 7:55 am
Subject: [DrakeRadio] Re: value of drake gear.

Hi,
There were some changes in the R4 to R4a that were desireable, mostly in the audio chain. However, I think its mostly the "age" thing for the R4 versus the R4a. Many R4's chassis are pretty ugly with corrosion. In fact, most R4a's are the same way. Now, for the T4x, that series went through to the T4xB. And not much difference there, so price is based only on age/or condition. Selling the T4x by itself should be straightforward, as well as the MS4 and AC4. Then we come to perception.

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Dave
Wd9cmd

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5423. Re: [DrakeRadio] Re: value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 17:06:30 UTC
From: Don Cunningham
Topic: 5418 Message: 5423

Dale,
One big difference between the T4X and T4XB is filtering. MUCH better SSB carrier supression and therefore cleaner output. That said, many of them are on the air and doing fine on a non-crowded band, hi. Otherwise, appearance, etc. like was said. It is getting rough to find a truly clean copper chassis on these, even the B Lines.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5424. Re: [DrakeRadio] Re: value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 17:13:32 UTC
From: Bob Macklin
Topic: 5418 Message: 5424

The only time I see crowed bands are on contest days and I don't operate contests.

But I sometimes use them to test band conditions!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 10:06 AM
Subject: Re: [DrakeRadio] Re: value of drake gear.

Dale,
One big difference between the T4X and T4XB is filtering. MUCH better SSB carrier supression and therefore cleaner output. That said, many of them are on the air and doing fine on a non-crowded band, hi. Otherwise, appearance, etc. like was said. It is getting rough to find a truly clean copper chassis on these, even the B Lines.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5425. Re: [DrakeRadio] Re: value of drake gear.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-07 17:18:15 UTC
From: Don Cunningham
Topic: 5418 Message: 5425

Same here, contests keep me outside mowing or something. No use trying to talk, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5426. RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 00:32:51 UTC
From: yash@aol.com
Topic: 5426 Message: 5426

Has anyone ever seen a circuit to add RIT to a R-4?
dale wt4t

[Non-text portions of this message have been removed]

5427. Re: [DrakeRadio] RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 00:37:20 UTC
From: Bob Macklin
Topic: 5426 Message: 5427

Why do you need RIT for a R4? Just use the Tx and Rx independently.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 5:32 PM
Subject: [DrakeRadio] RIT for R-4

Has anyone ever seen a circuit to add RIT to a R-4?
dale wt4t

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5428. Re: [DrakeRadio] RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 01:25:17 UTC
From: yash@aol.com
Topic: 5426 Message: 5428

If thats what you want the rit for. because of the somewhat course tuning on the whole drake line. my TR has the rit, sure makes listening much more comfortable and easier to tiuch up the drift.
dale

-----Original Message-----
From: Bob Macklin <macklinbob@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jun 7, 2011 8:37 pm
Subject: Re: [DrakeRadio] RIT for R-4

Why do you need RIT for a R4? Just use the Tx and Rx independently.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 5:32 PM
Subject: [DrakeRadio] RIT for R-4

Has anyone ever seen a circuit to add RIT to a R-4?
dale wt4t

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5429. Re: [DrakeRadio] RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 01:31:37 UTC
From: Bob Macklin
Topic: 5426 Message: 5429

I have no problem with the tuning on my R4A!

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 6:25 PM
Subject: Re: [DrakeRadio] RIT for R-4

If thats what you want the rit for. because of the somewhat course tuning on the whole drake line. my TR has the rit, sure makes listening much more comfortable and easier to tiuch up the drift.
dale

-----Original Message-----
From: Bob Macklin <macklinbob@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jun 7, 2011 8:37 pm
Subject: Re: [DrakeRadio] RIT for R-4

Why do you need RIT for a R4? Just use the Tx and Rx independently.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: yash@...
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 5:32 PM
Subject: [DrakeRadio] RIT for R-4

Has anyone ever seen a circuit to add RIT to a R-4?
dale wt4t

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

5430. Re: [DrakeRadio] RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 02:09:25 UTC
From: Paul Kraemer
Topic: 5426 Message: 5430

What drift?
Paul K0UYA
----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, June 07, 2011 8:25 PM
Subject: Re: [DrakeRadio] RIT for R-4

> If thats what you want the rit for. because of the somewhat course tuning
> on the whole drake line. my TR has the rit, sure makes listening much more
> comfortable and easier to tiuch up the drift.
> dale
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> -----Original Message-----
> From: Bob Macklin <macklinbob@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, Jun 7, 2011 8:37 pm
> Subject: Re: [DrakeRadio] RIT for R-4
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>
> Why do you need RIT for a R4? Just use the Tx and Rx independently.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
> "Real Radios Glow In The Dark"
> ----- Original Message -----
> From: yash@...
> To: DrakeRadio@yahoogroups.com
> Sent: Tuesday, June 07, 2011 5:32 PM
> Subject: [DrakeRadio] RIT for R-4
>
> Has anyone ever seen a circuit to add RIT to a R-4?

> dale wt4t
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> [Non-text portions of this message have been removed]
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5431. T4X Crystal Question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 02:40:10 UTC
From: Bob Macklin
Topic: 5431 Message: 5431

I have a 21.1MHz crystal in my R4A for 10Mhz WWV and 30M.

The T4X book says to use a 20.8 MHz crystal for 10MHz. WHY?

Both the R4A and T4X use the same frequency crystals for 40M and 20M. Also the 10M band crystals are the same.

Is there a reason I cannot use a 20.1MHz crystal in the T4X for 30M. That makes the dial direct reading.

I cannot read the crystal table in the T4XB manual I have. But the T4XC manual has the same 20.8MHZ for 10MHz to 10.2MHz.

Is there a reason for this peculiarity?

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

[Non-text portions of this message have been removed]

5432. Re: [DrakeRadio] T4X Crystal Question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 04:30:37 UTC
From: Jim Shorney
Topic: 5431 Message: 5432

On Tue, 7 Jun 2011 19:40:10 -0700, Bob Macklin wrote:

>The T4X book says to use a 20.8 MHz crystal for 10MHz. WHY?

This has been asked and answered many times. Garey, K4OAH, provides a good explanation here:

http://www.mail-archive.com/drakelist@.../msg11411.html

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5433. Re: [DrakeRadio] RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 04:27:57 UTC
From: Jim Shorney
Topic: 5426 Message: 5433

More to the point, adding an RIT circuit introduces another node where drift
can potentially occur.

73

-Jim

On Tue, 7 Jun 2011 21:09:25 -0500, Paul Kraemer wrote:

>What drift?
>Paul K0UYA
>----- Original Message -----
>From: <yash@...>
>To: <DrakeRadio@yahoogroups.com>
>Sent: Tuesday, June 07, 2011 8:25 PM
>Subject: Re: [DrakeRadio] RIT for R-4
>
>
>> If thats what you want the rit for. because of the somewhat course tuning
>> on the whole drake line. my TR has the rit, sure makes listening much more
>> comfortable and easier to tiuch up the drift.
>> dale
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>> -----Original Message-----
>> From: Bob Macklin <macklinbob@...>
>> To: DrakeRadio@yahoogroups.com
>> Sent: Tue, Jun 7, 2011 8:37 pm
>> Subject: Re: [DrakeRadio] RIT for R-4
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>>
>> Why do you need RIT for a R4? Just use the Tx and Rx independently.
>>
>> Bob Macklin
>> K5MYJ

>> Seattle, Wa.
>> "Real Radios Glow In The Dark"
>> ----- Original Message -----
>> From: yash@...
>> To: DrakeRadio@yahoogroups.com
>> Sent: Tuesday, June 07, 2011 5:32 PM
>> Subject: [DrakeRadio] RIT for R-4
>>
>> Has anyone ever seen a circuit to add RIT to a R-4?
>> dale wt4t
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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5434. Re: [DrakeRadio] T4X Crystal Question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 04:35:43 UTC
From: Bob Macklin
Topic: 5431 Message: 5434

Thanks,

For the time being I will just listen WWV and 30M with the crystal I have for my R4A.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, June 07, 2011 9:30 PM
Subject: Re: [DrakeRadio] T4X Crystal Question.

On Tue, 7 Jun 2011 19:40:10 -0700, Bob Macklin wrote:

>The T4X book says to use a 20.8 MHz crystal for 10MHz. WHY?

This has been asked and answered many times. Garey, K4OAH, provides a good explanation here:

http://www.mail-archive.com/drakelist@.../msg11411.html

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5435. Re: RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 06:11:50 UTC
From: mike
Topic: 5426 Message: 5435

I've added a RIT to my R-4B.

Assuming the PTO is similar (with the terminal for FSK) then it should work fine on the R-4.

It gives just a small adjustment... a couple of hundred Hz only.

There's a copy of the schematic in the Files area on the DrakeRadio site.

Mike
M0MLM

--- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
>
>
> Has anyone ever seen a circuit to add RIT to a R-4?
> dale wt4t
>
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> [Non-text portions of this message have been removed]
>

5436. (no subject)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 09:16:06 UTC
From: bcarling@cfl.rr.com
Topic: 5436 Message: 5436

Jim, Bob, and other guys,

I have both 20.800 MHz, and also 21.100 MHz crystals available for Drake 4-line rigs.

73, Bry

Posted by: "Bob Macklin" macklinbob@... k5myj Date: Tue Jun 7, 2011 7:40 pm ((PDT)) I have a 21.1MHz crystal in my R4A for 10Mhz WWV and 30M. The T4X book says to use a 20.8 MHz crystal for 10MHz. WHY? Both the R4A and T4X use the same frequency crystals for 40M and 20M. Also the 10M band crystals are the same. Is there a reason I cannot use a 20.1MHz crystal in the T4X for 30M. That makes the dial direct reading.

[Non-text portions of this message have been removed]

5437. Re: RIT for R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-08 09:55:21 UTC
From: w5rkl
Topic: 5426 Message: 5437

I personally don't see the need for adding an RIT control to an R4<any> receiver. The only reason I can think of would be if that person always operates their Drake twins in "transceive". Personally, if I wanted to operate transceive all the time then I would use a transceiver such as a TR3, TR4, or TR7.

having said all that, if anyone wants to add an RIT control to their R4<any> receiver than that's entirely up to them but I simply don't see the need to do something like that.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> More to the point, adding an RIT circuit introduces another node where drift
> can potentially occur.
>
> 73
>
> -Jim
>
> On Tue, 7 Jun 2011 21:09:25 -0500, Paul Kraemer wrote:
>
> >What drift?
> >Paul K0UYA
> >----- Original Message -----
> >From: <yash@...>
> >To: <DrakeRadio@yahoogroups.com>
> >Sent: Tuesday, June 07, 2011 8:25 PM
> >Subject: Re: [DrakeRadio] RIT for R-4
> >
> >
> >> If thats what you want the rit for. because of the somewhat course tuning
> >> on the whole drake line. my TR has the rit, sure makes listening much more
> >> comfortable and easier to tiuch up the drift.
> >> dale
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> >> -----Original Message-----
> >> From: Bob Macklin <macklinbob@...>
> >> To: DrakeRadio@yahoogroups.com
> >> Sent: Tue, Jun 7, 2011 8:37 pm
> >> Subject: Re: [DrakeRadio] RIT for R-4
> >>
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> >> Why do you need RIT for a R4? Just use the Tx and Rx independently.
> >>
> >> Bob Macklin
> >> K5MYJ
> >> Seattle, Wa.
> >> "Real Radios Glow In The Dark"
> >> ----- Original Message -----
> >> From: yash@...
> >> To: DrakeRadio@yahoogroups.com
> >> Sent: Tuesday, June 07, 2011 5:32 PM
> >> Subject: [DrakeRadio] RIT for R-4
> >>
> >> Has anyone ever seen a circuit to add RIT to a R-4?
> >> dale wt4t
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> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
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>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5438. Drake TR-4 Troubleshoot and Repair (Crossposted) multiple posts

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 03:31:49 UTC
From: Forrest Plumstead
Topic: 5438 Message: 5438

OK here is where the rubber meets the road. When I left Virginia the CARS and VBARC organizations gave me a Drake TR-4 which needed T&R. I do not have any T&R equipment. Tonight I went to the San Antonio Radio Club meeting. They meet at the only Ham Radio store here, which also has a repair shop. I explained my problem and they said that on the final Saturday of July the store would be open but not the shop, and I could use the shop then. What I hope to accomplish in the mean time is to try to fix what I can at home and use what time I have in the shop for the major problems that I need the test equipment for. For example I know I can wire the microphone jack and plug at home. There are several different problems, so I am going to address each one in a separate post. I am looking forward to your ideas with gratitude and enthusiasm.

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5439. Drake TR-4 T&R RX can't hear

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 04:06:41 UTC
From: Forrest Plumstead
Topic: 5439 Message: 5439

When I first got the radio RX worked just fine, then it started to go down hill.

- I get the rushing noise from the speaker so the AF is ok but I can not pick up any signals not even from my make-shift RF Gen or even my HW-8 sitting right next to it. First suspect blown filament. I turned out the lights in my shack turned on the radio and sure enough found a tube not glowing. Sadly it was a TX tube. (See TX in my next post)
- There is a related problem: At first the white noise coming from my speaker is weak. But if I jiggle the Sideband switch I get static noise then the white noise increases. At first when this happened the volume would change as I adjusted the RF Tune control. Now that has no effect.
- Related to the Sideband Switch, the knob came off the other day and a spring clip fell out. I have not been able to put the knob back on securely since.

That's about it for this segment I look forward to your thoughts, ideas, and suggestions.

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5440. TR-4 T&R TX does not talk.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 04:22:12 UTC
From: Forrest Plumstead
Topic: 5440 Message: 5440

At first this was **The Major Problem**. TX would tune up on CW but there was no modulation. I think I might know what the problem is now. In the back of the radio next to the leading edge of the RF cage are two identical tubes with shields in front of two "cans". These are 12BA6s and they are IF amps. The one closest to the edge of the chassis is the RX IF and the one closest to the RF cage is TX. Even in the dark it was hard to check the filament glow of these two tubes. Finally I saw the one for the RX then I touched the envelope of the TX tube and it was just barely warm. Touched the RX and burnt my fingers. (Note to self get some burn ointment).

Does anybody have one of these floating around in your junk box? Also a previous owner left the shields off. Please contact me off list.

TNX

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5441. TR-4 T&R Loading Cap sticky

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 04:29:40 UTC
From: Forrest Plumstead
Topic: 5441 Message: 5441

While tuning in CW the Tune Cap will give you a dip, but the loading cap is sticky until the 12:00 position then it moves freely and the power jumps up considerably, but the Plate current is on the high side. Have not taken the RF cage off yet and looked inside.

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5442. TR-4 T&R Balancing the PAs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 04:33:41 UTC
From: Forrest Plumstead
Topic: 5442 Message: 5442

The manual says that the PA tubes are the only ones that you need to tune when you change them, but I don't see the tuning procedure in the manual. Are my aging eyes getting that bad? How do you balance and tune the PAs when you put in a new set?

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5443. TR-4 T&R back to RX

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 04:35:07 UTC
From: Forrest Plumstead
Topic: 5443 Message: 5443

Does anybody know if there is a tube tester in the San Antonio area? If so where?

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5444. Re: [DrakeRadio] TR-4 T&R Balancing the PAs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 11:00:34 UTC
From: Richard Knoppow
Topic: 5442 Message: 5444

----- Original Message -----
From: "Forrest Plumstead" <fplum1@...>
To: <DrakeRadio@yahoogroups.com>;
<Amateur-repairs@yahoogroups.com>
Sent: Thursday, June 09, 2011 9:33 PM
Subject: [DrakeRadio] TR-4 T&R Balancing the PAs

> The manual says that the PA tubes are the only ones that
> you need to tune
> when you change them, but I don't see the tuning procedure
> in the manual.
> Are my aging eyes getting that bad? How do you balance and
> tune the PAs when
> you put in a new set?
>
> --
> 73
> WB5HQO Forrest
> Ham Radio WB5HQO http://forrest.3h.com/main.html

The is a section on neutralizing. Balancing is best
done using a tube tester but can be done by measuring the
voltage drop across the 15ohm resistors in the cathodes.
First, make sure the resistors are all the same value.
Carbon composition resistors tend to increase in value with
age and heat but different brands drift at different rates
so some of the resistors will be OK and some not. They can
be replaced with film resistors if out of specs. There is
some controversey about just how closely the tubes have to
be matched. It varies from very closely to not at all.
Neutralizing is done to prevent oscillation from
positive feedback from plate to grid of the tube. A
capacitance is placed in the circuit such as to form one arm
of a bridge circuit. The conventional technique is to remove
the screen voltage from the amplifier. That can be done by
unsoldering a wire on a feed through cap under the chassis.
Then peak up the driver on about 20 meters and monitor the
output with a receiver or sensitive oscilloscope on the
antenna jack. Adjust the driver and plate tuning so that you
can see a signal and maximise it. Then adjust the
neutralizing cap to minimise it. Then go to 10 meters and
refine the adjustment. The null is never perfect but should
be quite good.
Now, reconnect the screens and attach the transmitter
to a dummy load. Now, adjust the driver on 10 meters and

carefully bring up the drive until you see some output and can dip the plate. Bring the drive up a bit more and redip. Watch the output power meter, either the one on the TX or (preferrably) an external one and adjust the loading for maximum, continue to juggle the loading and plate tuning dipping making sure that the maximum power occurs on the dip, that is, on the current minimum. If there is any tendency for the power to peak when the plate tuning dip is going up the stage is not neutralized. Since you are close to the right place you can refine the neutralizing tuning by watching the direction of the output power when dipping. On the side where the power is going up with increasing plate current make a very slight adjustment to the neutralizing cap to bring it downward and again check for co-incidence of dip in current with peak in power, they should be exact. Once you are there you should be able to tune for maximum power output without any spurious output or overloading of the tubes from going into oscillation. The usual symptom of oscillation is that the plate dip and output peak are not in the same place, and if the tube is allowed to operate this way for more than a few seconds the plate will become red hot. Usually, that will kill the tubes if allowed to persist for more than a couple of seconds.
Both plate tuning and loading must be done carefully on the higher bands because its easy to miss the correct spot and to tune on a false peak. If your power meter indicates unreasonably high output the amplifier is almost certainly oscillating.
All this is easier to do than to describe. A WARNING! you are dealing with high voltages with enough current available to kill you in the RF amplifier section, BE CARFUL. The same rules of safty that apply to the highest power transmitters also apply to the little guys, 600V will kill you just as dead as 6000. Make sure you use insulated tools, some that look insulated are not. Have a shorting stick and make sure you short the plates to ground when powering down. Keep one hand in a pocket. This is NOT overkill for small vacuum tube stuff.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5445. Re: [DrakeRadio] TR-4 T&R Balancing the PAs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 09:31:32 UTC
From: GAREY - K4OAH
Topic: 5442 Message: 5445

Good description.. I find that if I start on 20m as described, the adjustment is easy using the 'dip and peak' method as is the removal of screen voltage. One big caveat, the wire on the screen feed thru is fairly large, and wrapped around the terminal. If you get too aggressive, the ceramic WILL crack. Replacements can be gotten, but believe me they are NO fun to replace!!

73, Garey - K4OAH

-----Original Message-----
>From: Richard Knoppow <1oldlens1@...>
>Sent: Jun 10, 2011 7:00 AM
>To: DrakeRadio@yahoogroups.com
>Subject: Re: [DrakeRadio] TR-4 T&R Balancing the PAs
>
>
>----- Original Message -----
>From: "Forrest Plumstead" <fplum1@...>
>To: <DrakeRadio@yahoogroups.com>;
><Amateur-repairs@yahoogroups.com>
>Sent: Thursday, June 09, 2011 9:33 PM
>Subject: [DrakeRadio] TR-4 T&R Balancing the PAs
>
>
>> The manual says that the PA tubes are the only ones that
>> you need to tune
>> when you change them, but I don't see the tuning procedure
>> in the manual.
>> Are my aging eyes getting that bad? How do you balance and
>> tune the PAs when
>> you put in a new set?
>>
>> --
>> 73
>> WB5HQO Forrest
>> Ham Radio WB5HQO http://forrest.3h.com/main.html
>
> The is a section on neutralizing. Balancing is best
>done using a tube tester but can be done by measuring the
>voltage drop across the 15ohm resistors in the cathodes.
>First, make sure the resistors are all the same value.
>Carbon composition resistors tend to increase in value with
>age and heat but different brands drift at different rates
>so some of the resistors will be OK and some not. They can
>be replaced with film resistors if out of specs. There is
>some controversey about just how closely the tubes have to

>be matched. It varies from very closely to not at all.
> Neutralizing is done to prevent oscillation from
>positive feedback from plate to grid of the tube. A
>capacitance is placed in the circuit such as to form one arm
>of a bridge circuit. The conventional technique is to remove
>the screen voltage from the amplifier. That can be done by
>unsoldering a wire on a feed through cap under the chassis.
>Then peak up the driver on about 20 meters and monitor the
>output with a receiver or sensitive oscilloscope on the
>antenna jack. Adjust the driver and plate tuning so that you
>can see a signal and maximise it. Then adjust the
>neutralizing cap to minimise it. Then go to 10 meters and
>refine the adjustment. The null is never perfect but should
>be quite good.
> Now, reconnect the screens and attach the transmitter
>to a dummy load. Now, adjust the driver on 10 meters and
>carefully bring up the drive until you see some output and
>can dip the plate. Bring the drive up a bit more and redip.
>Watch the output power meter, either the one on the TX or
>(preferrably) an external one and adjust the loading for
>maximum, continue to juggle the loading and plate tuning
>dipping making sure that the maximum power occurs on the
>dip, that is, on the current minimum. If there is any
>tendency for the power to peak when the plate tuning dip is
>going up the stage is not neutralized. Since you are close
>to the right place you can refine the neutralizing tuning by
>watching the direction of the output power when dipping. On
>the side where the power is going up with increasing plate
>current make a very slight adjustment to the neutralizing
>cap to bring it downward and again check for co-incidence of
>dip in current with peak in power, they should be exact.
>Once you are there you should be able to tune for maximum
>power output without any spurious output or overloading of
>the tubes from going into oscillation. The usual symptom of
>oscillation is that the plate dip and output peak are not in
>the same place, and if the tube is allowed to operate this
>way for more than a few seconds the plate will become red
>hot. Usually, that will kill the tubes if allowed to persist
>for more than a couple of seconds.
> Both plate tuning and loading must be done carefully on
>the higher bands because its easy to miss the correct spot
>and to tune on a false peak. If your power meter indicates
>unreasonably high output the amplifier is almost certainly
>oscillating.
> All this is easier to do than to describe. A WARNING!
>you are dealing with high voltages with enough current
>available to kill you in the RF amplifier section, BE
>CARFUL. The same rules of safty that apply to the highest
>power transmitters also apply to the little guys, 600V will
>kill you just as dead as 6000. Make sure you use insulated

>tools, some that look insulated are not. Have a shorting
>stick and make sure you short the plates to ground when
>powering down. Keep one hand in a pocket. This is NOT
>overkill for small vacuum tube stuff.
>
>
>--
>Richard Knoppow
>Los Angeles
>WB6KBL
>dickburk@...
>
>
>
>-----------------------------------
>
>Yahoo! Groups Links
>
>
>

5446. Re: TR-4 T&R TX does not talk.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 13:07:12 UTC
From: w5rkl
Topic: 5440 Message: 5446

Hello Forest,

You said;

"TX would tune up on CW..."

If that's true then that tells me that the transmitter's 9Mhz IF amplifier V15 (12BA6) is working as it should.

If V15 fails for any reason then the transmitter will not function in any mode, whether it be CW, sideband (USB/LSB) or AM.

Have you checked and/or swapped out the microphone/speech amplifier V18 (12AX7)? If V18 fails then CW would continue to work but sideband and AM would not work.

How do you have your microphone plug wired? The microphone plug should be wired as follows:

Microphone element to the plug's "Ring"
PTT to the plug's "Tip"
Ground to the plugs "Sleeve".

If your microphone is wired differently then that cold be the cause your loss of modulation in sideband/AM modes.

If you do not have the TR4 operator's manual then diagnosing problems will be a bit difficult. I recommend contacting Garey, K4OAH, about purchasing his TR4 CD which contains invaluable information about the TR4 including the operator's manual and clean schematics.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@...> wrote:
>
> At first this was **The Major Problem**. TX would tune up on CW but there
> was no modulation. I think I might know what the problem is now. In the back
> of the radio next to the leading edge of the RF cage are two identical tubes
> with shields in front of two "cans". These are 12BA6s and they are IF amps.
> The one closest to the edge of the chassis is the RX IF and the one closest
> to the RF cage is TX. Even in the dark it was hard to check the filament
> glow of these two tubes. Finally I saw the one for the RX then I touched the
> envelope of the TX tube and it was just barely warm. Touched the RX and
> burnt my fingers. (Note to self get some burn ointment).
>
> Does anybody have one of these floating around in your junk box? Also a
> previous owner left the shields off. Please contact me off list.
>
> TNX

>
> --
> 73
> WB5HQO Forrest
> Ham Radio WB5HQO http://forrest.3h.com/main.html
> Plumstead and Associated Families:
> http://freepages.genealogy.rootsweb.com/~fplum/
>
> NAQCC Member # 3678 FPQRP # 2642
> SKCC Member # 6855 QRPadillo # 59
>
>
> [Non-text portions of this message have been removed]
>

5447. Re: [DrakeRadio] Re: TR-4 T&R TX does not talk.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 18:50:58 UTC
From: Forrest Plumstead
Topic: 5440 Message: 5447

Hi Mike!

You bring up a good point. So I am rethinking things. V15 must have blown the filament sometime between the time I last tested the TX and last night. I checked continuity of the the V15 heater and it is open. So I will have to replace V15 then continue to for the modulation problem using the techniques you just described.

The mike is hard wired in I have a jack and plug that I have to wire in thanks for the instructions.

Yes I do have the operator's manual.

On Fri, Jun 10, 2011 at 8:07 AM, w5rkl <w5rkl@yahoo.com> wrote:

> **
>
>
> Hello Forest,
>
> You said;
>
> "TX would tune up on CW..."
>
> If that's true then that tells me that the transmitter's 9Mhz IF amplifier
> V15 (12BA6) is working as it should.
>
> If V15 fails for any reason then the transmitter will not function in any
> mode, whether it be CW, sideband (USB/LSB) or AM.
>
> Have you checked and/or swapped out the microphone/speech amplifier V18
> (12AX7)? If V18 fails then CW would continue to work but sideband and AM
> would not work.
>
> How do you have your microphone plug wired? The microphone plug should be
> wired as follows:
>
> Microphone element to the plug's "Ring"
> PTT to the plug's "Tip"
> Ground to the plugs "Sleeve".
>
> If your microphone is wired differently then that cold be the cause your
> loss of modulation in sideband/AM modes.
>
> If you do not have the TR4 operator's manual then diagnosing problems will
> be a bit difficult. I recommend contacting Garey, K4OAH, about purchasing

> his TR4 CD which contains invaluable information about the TR4 including the
> operator's manual and clean schematics.
>
> 73s
> Mike
> W5RKL
>
>
> --- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@...> wrote:
> >
> > At first this was **The Major Problem**. TX would tune up on CW but there
> > was no modulation. I think I might know what the problem is now. In the
> back
> > of the radio next to the leading edge of the RF cage are two identical
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> > with shields in front of two "cans". These are 12BA6s and they are IF
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> > The one closest to the edge of the chassis is the RX IF and the one
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> > to the RF cage is TX. Even in the dark it was hard to check the filament
> > glow of these two tubes. Finally I saw the one for the RX then I touched
> the
> > envelope of the TX tube and it was just barely warm. Touched the RX and
> > burnt my fingers. (Note to self get some burn ointment).
> >
> > Does anybody have one of these floating around in your junk box? Also a
> > previous owner left the shields off. Please contact me off list.
> >
> > TNX
> >
> > --
> > 73
> > WB5HQO Forrest
> > Ham Radio WB5HQO http://forrest.3h.com/main.html
> > Plumstead and Associated Families:
> > http://freepages.genealogy.rootsweb.com/~fplum/
> >
> > NAQCC Member # 3678 FPQRP # 2642
> > SKCC Member # 6855 QRPadillo # 59
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

--
73
WB5HQO Forrest

Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5448. Re: TR-4 T&R TX does not talk.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 19:34:11 UTC
From: w5rkl
Topic: 5440 Message: 5448

Forrest,

You said;

"V15 must have blown the filament sometime between the time I last tested the TX and last night. I checked continuity of the the V15 heater and it is open."

If V15's filament is open then all modes, CW, SSB, and AM, will fail to work. I think you may have meant "V18" (12AX7), the speech amplifier. If only one of V18's filaments are open then SSB and AM will not work but CW will continue to work. V15 is used in transmit ALL modes.

You should check the hardwired microphone wiring, it may be wired wrong or possibly a broken wire. I never cared for hardwired microphone cables.

Also don't discount the microphone itself. There could be a broken wire or bad solder connection. If the microphone element goes through the PTT switch assembly inside the microphone, a wire could be broken so check it to be sure.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@...> wrote:
>
> Hi Mike!
>
> You bring up a good point. So I am rethinking things. V15 must have blown
> the filament sometime between the time I last tested the TX and last night.
> I checked continuity of the the V15 heater and it is open. So I will have to
> replace V15 then continue to for the modulation problem using the techniques
> you just described.
>
> The mike is hard wired in I have a jack and plug that I have to wire in
> thanks for the instructions.
>
> Yes I do have the operator's manual.
>
> On Fri, Jun 10, 2011 at 8:07 AM, w5rkl <w5rkl@...> wrote:
>
> > **
> > >
> > >
> > > Hello Forest,
> > >
> > > You said;
> > >

> > "TX would tune up on CW..."
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> > If that's true then that tells me that the transmitter's 9Mhz IF amplifier
> > V15 (12BA6) is working as it should.
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> > If V15 fails for any reason then the transmitter will not function in any
> > mode, whether it be CW, sideband (USB/LSB) or AM.
> >
> > Have you checked and/or swapped out the microphone/speech amplifier V18
> > (12AX7)? If V18 fails then CW would continue to work but sideband and AM
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> > How do you have your microphone plug wired? The microphone plug should be
> > wired as follows:
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> > PTT to the plug's "Tip"
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> > If your microphone is wired differently then that cold be the cause your
> > loss of modulation in sideband/AM modes.
> >
> > If you do not have the TR4 operator's manual then diagnosing problems will
> > be a bit difficult. I recommend contacting Garey, K4OAH, about purchasing
> > his TR4 CD which contains invaluable information about the TR4 including the
> > operator's manual and clean schematics.
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@> wrote:
> > >
> > > At first this was **The Major Problem**. TX would tune up on CW but there
> > > was no modulation. I think I might know what the problem is now. In the
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> > > of the radio next to the leading edge of the RF cage are two identical
> > tubes
> > > with shields in front of two "cans". These are 12BA6s and they are IF
> > amps.
> > > The one closest to the edge of the chassis is the RX IF and the one
> > closest
> > > to the RF cage is TX. Even in the dark it was hard to check the filament
> > > glow of these two tubes. Finally I saw the one for the RX then I touched
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> > > envelope of the TX tube and it was just barely warm. Touched the RX and
> > > burnt my fingers. (Note to self get some burn ointment).
> > >
> > > Does anybody have one of these floating around in your junk box? Also a

> > > previous owner left the shields off. Please contact me off list.
> > >
> > > TNX
> > >
> > > --
> > > 73
> > > WB5HQO Forrest
> > > Ham Radio WB5HQO http://forrest.3h.com/main.html
> > > Plumstead and Associated Families:
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> > > NAQCC Member # 3678 FPQRP # 2642
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> > >
> > > [Non-text portions of this message have been removed]
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>
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>
> [Non-text portions of this message have been removed]
>

5449. Re: TR-4 T&R TX does not talk.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-10 19:41:30 UTC
From: w5rkl
Topic: 5440 Message: 5449

One additional thought I forgot to mention.

If any tube has a "white" color on the inside of the glass envelope where the chrome coating once was, throw the tube away. The chrome coating is Barium and Barium turns white when exposed to air. Therefore, any tube that shows white on the inside means the glass envelope is cracked and the vacuum is lost. If power is applied to the filament when this occurs, the filaments will burn open, same as a light bulb will if the glass envelope is broken and 120VAC is applied to the filament.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@...> wrote:
>
> Hi Mike!
>
> You bring up a good point. So I am rethinking things. V15 must have blown
> the filament sometime between the time I last tested the TX and last night.
> I checked continuity of the the V15 heater and it is open. So I will have to
> replace V15 then continue to for the modulation problem using the techniques
> you just described.
>
> The mike is hard wired in I have a jack and plug that I have to wire in
> thanks for the instructions.
>
> Yes I do have the operator's manual.
>
> On Fri, Jun 10, 2011 at 8:07 AM, w5rkl <w5rkl@...> wrote:
>
> > **
> > >
> > >
> > > Hello Forest,
> > >
> > > You said;
> > >
> > > "TX would tune up on CW..."
> > >
> > > If that's true then that tells me that the transmitter's 9Mhz IF amplifier
> > > V15 (12BA6) is working as it should.
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> > > If V15 fails for any reason then the transmitter will not function in any
> > > mode, whether it be CW, sideband (USB/LSB) or AM.
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> > > Have you checked and/or swapped out the microphone/speech amplifier V18

> > (12AX7)? If V18 fails then CW would continue to work but sideband and AM
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> > be a bit difficult. I recommend contacting Garey, K4OAH, about purchasing
> > his TR4 CD which contains invaluable information about the TR4 including the
> > operator's manual and clean schematics.
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Forrest Plumstead <fplum1@> wrote:
> > >
> > > At first this was **The Major Problem**. TX would tune up on CW but there
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> > > envelope of the TX tube and it was just barely warm. Touched the RX and
> > > burnt my fingers. (Note to self get some burn ointment).
> > >
> > > Does anybody have one of these floating around in your junk box? Also a
> > > previous owner left the shields off. Please contact me off list.
> > >
> > > TNX
> > >
> > > --
> > > 73
> > > WB5HQO Forrest
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> > >
> > >
> > > [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>

5450. DrakeRadio-unsubscribe@yahoogroups.com

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-11 18:59:56 UTC
From: Dennis
Topic: 5450 Message: 5450

DrakeRadio-unsubscribe@yahoogroups.com

5451. Need T-4XC RF cage top cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 14:12:04 UTC
From: dean_k5dh
Topic: 5451 Message: 5451

Hi all,

I bought a "fixer-upper" T-4XC and AC-4 at a hamfest yesterday. The T-4XC is complete except for the top cover of the RF cage. Anybody have one of these that they can sell me?

E-mail me at (my call sign) AT qsl.net

73,
Dean K5DH

5452. Re: Need T-4XC RF cage top cover

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 14:38:15 UTC
From: w5rkl
Topic: 5451 Message: 5452

Hello Dean,

I don't have a spare top cover but until you find one, either from a group member or from a parts radio found else where, you can make a temporary top cover out of perforated aluminum found at most hardware stores. Cutting the perforated aluminum is quite easy and can be done with a pair of tin sheers. I needed a top cover for a final amplifier enclosure on my Heathkit Marauder HX-10 and Apache TX-1 when I changed the final amplifier cooling fan so I cut one to size from perforated aluminum.

If you use this temporary method, make sure the clearance between the top and the final tube plate caps is 1/2 inch or more.

Just an idea for a temporary top cover until you find an actual replacement top.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@...> wrote:
>
> Hi all,
>
> I bought a "fixer-upper" T-4XC and AC-4 at a hamfest yesterday. The T-4XC is complete except for the top cover of the RF cage. Anybody have one of these that they can sell me?
>
> E-mail me at (my call sign) AT qsl.net
>
> 73,
> Dean K5DH
>

5453. Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 17:31:51 UTC
From: yash@aol.com
Topic: 5453 Message: 5453

Was playing with my R-4 today and noticed a" birdie" very strong on 20 and 17 meters. Almost as strong as the cal tone.Showed up on 14150,210 ,275 and 335. On 17 showed up at 18120,135, and 145. Pulled the ant connection and gone,the R4 is silent except for a little white noise. If I pull the 2' jumper coax off the ant switch,but still connected to the R-4 , the birdie still there and as loud as when the switch is connected to the antenna. the rig seems to hear fine on both bands,just the birdie is always there. If I pull the jumper coax from the switch,short the coax, still there.
On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
any ideas where to look.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5454. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:11:20 UTC
From: Garey Barrell
Topic: 5453 Message: 5454

Dale -

Not sure I understand what you are saying. You say "pulled the ant connection and gone." This indicates the signals are from outside the receiver, although you say if you disconnect from the antenna switch the birdie is still there???

Does the Preselector peak where it should for the frequencies you are hearing?

If the Preselector is mistuned, you may be hearing harmonics from the PTO, BAND oscillator, and/or BFO or various mixing products of the three.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

yash@... wrote:
>
> Was playing with my R-4 today and noticed a" birdie" very strong on 20 and 17 meters. Almost as strong as the cal tone.Showed up on 14150,210 ,275 and 335. On 17 showed up at 18120,135, and 145. Pulled the ant connection and gone,the R4 is silent except for a little white noise. If I pull the 2' jumper coax off the ant switch,but still connected to the R-4 , the birdie still there and as loud as when the switch is connected to the antenna. the rig seems to hear fine on both bands,just the birdie is always there. If I pull the jumper coax from the switch,short the coax, still there.
> On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
> any ideas where to look.
> thanks
> dale wt4t
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>

5455. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:19:06 UTC
From: yash@aol.com
Topic: 5453 Message: 5455

Hi Garey
If I disconnect the antenna from the R-4 all goes quiet,nothing but receiver noise at a low level. If I reconnect the antenna at the R-4 and disconnect the other end of 2 foot coax that goes to the ant switch, all the birdies are back and loud. If I reconnect the 2 foot coax to the ant switch and switch the antenna to the drake,seems to hear fine except at the points of the birdies. I subbed the s-line in place of the R-4, no birdies,same for the flex 1500. ???
dale

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 3:11 pm
Subject: Re: [DrakeRadio] Birdies on several bands

Dale -

Not sure I understand what you are saying. You say "pulled the ant connection and gone." This indicates the signals are from outside the receiver, although you say if you disconnect from the antenna switch the birdie is still there???

Does the Preselector peak where it should for the frequencies you are hearing?

If the Preselector is mistuned, you may be hearing harmonics from the PTO, BAND oscillator, and/or BFO or various mixing products of the three.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>;

yash@... wrote:
>
> Was playing with my R-4 today and noticed a" birdie" very strong on 20 and 17 meters. Almost as strong as the cal tone.Showed up on 14150,210 ,275 and 335. On 17 showed up at 18120,135, and 145. Pulled the ant connection and gone,the R4 is silent except for a little white noise. If I pull the 2' jumper coax off the ant switch,but still connected to the R-4 , the birdie still there and as loud as when the switch is connected to the antenna. the rig seems to hear fine on both bands,just the birdie is always there. If I pull the jumper coax from the switch,short the coax, still there.
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> any ideas where to look.
> thanks
> dale wt4t
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>

[Non-text portions of this message have been removed]

5456. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:33:39 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5456

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5457. Re: Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:41:11 UTC
From: w5rkl
Topic: 5453 Message: 5457

Dale,

What happens if you connect a 50 ohm resistor (carbon or metal film) across the antenna connection? Do you still hear the birdies?

If you have a 50 dummy load, connect the dummy load directly to the R4 receiver. Do you still hear the birdies?

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
>
> Hi Garey
> If I disconnect the antenna from the R-4 all goes quiet,nothing but receiver noise at a low level. If I reconnect the antenna at the R-4 and disconnect the other end of 2 foot coax that goes to the ant switch, all the birdies are back and loud. If I reconnect the 2 foot coax to the ant switch and switch the antenna to the drake,seems to hear fine except at the points of the birdies. I subbed the s-line in place of the R-4, no birdies,same for the flex 1500. ???
> dale
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> -----Original Message-----
> From: Garey Barrell <k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:11 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> Dale -
>
> Not sure I understand what you are saying. You say "pulled the ant
> connection and gone." This indicates the signals are from outside the

> receiver, although you say if you disconnect from the antenna switch the
> birdie is still there???
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> Does the Preselector peak where it should for the frequencies you are
> hearing?
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> If the Preselector is mistuned, you may be hearing harmonics from the
> PTO, BAND oscillator, and/or BFO or various mixing products of the three.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>;
>
> yash@... wrote:
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> > dale wt4t
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> [Non-text portions of this message have been removed]
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5458. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:46:16 UTC
From: Garey Barrell
Topic: 5453 Message: 5458

The only thing that comes to mind is that the RF Amp stage may be
oscillating due to the capacitance of the 2' cable. If you terminate
the 2' coax at the far end with a 50 ohm load are the birdies gone?
Can't say I've ever seen this, but with no antenna the receiver is
quiet, and 2' lengths of coax don't generate RF! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

yash@... wrote:
> Hi Garey
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> dale
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> -----Original Message-----
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:11 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> Dale -
>
> Not sure I understand what you are saying. You say "pulled the ant
> connection and gone." This indicates the signals are from outside the

> receiver, although you say if you disconnect from the antenna switch the
> birdie is still there???
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> Does the Preselector peak where it should for the frequencies you are
> hearing?
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> If the Preselector is mistuned, you may be hearing harmonics from the
> PTO, BAND oscillator, and/or BFO or various mixing products of the three.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> <www.k4oah.com>;
>
> yash@... wrote:
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>> On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
>> any ideas where to look.
>> thanks
>> dale wt4t
>>

5459. Re: [DrakeRadio] Re: Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 19:58:05 UTC
From: yash@aol.com
Topic: 5453 Message: 5459

Mike
switched from the antenna to the dummy load, signals all disappear, birdie's comes back loud as ever.
dale

-----Original Message-----
From: w5rkl <w5rkl@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 3:41 pm
Subject: [DrakeRadio] Re: Birdies on several bands

Dale,

What happens if you connect a 50 ohm resistor (carbon or metal film) across the antenna connection? Do you still hear the birdies?

If you have a 50 dummy load, connect the dummy load directly to the R4 receiver. Do you still hear the birdies?

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
>
> Hi Garey
> If I disconnect the antenna from the R-4 all goes quiet,nothing but receiver noise at a low level. If I reconnect the antenna at the R-4 and disconnect the other end of 2 foot coax that goes to the ant switch, all the birdies are back and loud. If I reconnect the 2 foot coax to the ant switch and switch the antenna to the drake,seems to hear fine except at the points of the birdies. I subbed the s-line in place of the R-4, no birdies,same for the flex 1500. ???
> dale
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> -----Original Message-----
> From: Garey Barrell <k4oah@...>
> To: DrakeRadio@yahoogroups.com

> Sent: Sun, Jun 12, 2011 3:11 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> Dale -
>
> Not sure I understand what you are saying. You say "pulled the ant
> connection and gone." This indicates the signals are from outside the
> receiver, although you say if you disconnect from the antenna switch the
> birdie is still there???
>
> Does the Preselector peak where it should for the frequencies you are
> hearing?
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> If the Preselector is mistuned, you may be hearing harmonics from the
> PTO, BAND oscillator, and/or BFO or various mixing products of the three.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>;;
>
> yash@... wrote:
> >
> > Was playing with my R-4 today and noticed a" birdie" very strong on 20 and 17 meters. Almost as strong as the cal tone.Showed up on 14150,210 ,275 and 335. On 17 showed up at 18120,135, and 145. Pulled the ant connection and gone,the R4 is silent except for a little white noise. If I pull the 2' jumper coax off the ant switch,but still connected to the R-4 , the birdie still there and as loud as when the switch is connected to the antenna. the rig seems to hear fine on both bands,just the birdie is always there. If I pull the jumper coax from the switch,short the coax, still there.
> > On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
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> > thanks
> > dale wt4t
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5460. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 20:01:00 UTC
From: yash@aol.com
Topic: 5453 Message: 5460

Garey
I switched the antenna switch from the antenna to my dummy load, all off the air signals are gone, the bridie's are strong as ever.
dale wt4t

-----Original Message-----
From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 3:46 pm
Subject: Re: [DrakeRadio] Birdies on several bands

The only thing that comes to mind is that the RF Amp stage may be
oscillating due to the capacitance of the 2' cable. If you terminate
the 2' coax at the far end with a 50 ohm load are the birdies gone?
Can't say I've ever seen this, but with no antenna the receiver is
quiet, and 2' lengths of coax don't generate RF! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>;

yash@... wrote:
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> dale
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> -----Original Message-----
> From: Garey Barrell<k4oah@mindspring.com>
> To: DrakeRadio@yahoogroups.com

> Sent: Sun, Jun 12, 2011 3:11 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> Dale -
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> Not sure I understand what you are saying. You say "pulled the ant
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>> any ideas where to look.
>> thanks
>> dale wt4t
>>

[Non-text portions of this message have been removed]

5461. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 20:05:04 UTC
From: yash@aol.com
Topic: 5453 Message: 5461

Garey
what in the antenna input might cause this, what if T-1 is way out? or a bad 12bz6 ?
dale wt4t

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 3:46 pm
Subject: Re: [DrakeRadio] Birdies on several bands

The only thing that comes to mind is that the RF Amp stage may be
oscillating due to the capacitance of the 2' cable. If you terminate
the 2' coax at the far end with a 50 ohm load are the birdies gone?
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73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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<www.k4oah.com>;

yash@... wrote:
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> dale
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> -----Original Message-----
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:11 pm

> Subject: Re: [DrakeRadio] Birdies on several bands
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> Dale -
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> 73, Garey - K4OAH
> Glen Allen, VA
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> yash@... wrote:
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>> any ideas where to look.
>> thanks
>> dale wt4t
>>

[Non-text portions of this message have been removed]

5462. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 20:58:46 UTC
From: Garey Barrell
Topic: 5453 Message: 5462

Dale -

I would say that oscillation is pretty far down the list of likely possibilities. Try a different short length of coax in place of your 2' piece.

Try just putting a 2' length of hook-up wire on the center conductor of the ANT jack.

You didn't say if the Preselector was peaking where it 'should' for these frequencies according to the chart in the manual.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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yash@... wrote:
> Garey
> what in the antenna input might cause this, what if T-1 is way out? or a bad 12bz6 ?
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> -----Original Message-----
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:46 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> 73, Garey - K4OAH
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>> From: Garey Barrell<k4oah@...>
>> To: DrakeRadio@yahoogroups.com
>> Sent: Sun, Jun 12, 2011 3:11 pm
>> Subject: Re: [DrakeRadio] Birdies on several bands
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>>> any ideas where to look.
>>> thanks
>>> dale wt4t
>

5463. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 21:05:45 UTC
From: yash@aol.com
Topic: 5453 Message: 5463

Garey
put a 2 foot chunk of wire on the antenna input, birdies all there, on 17 does about a S-8 on the meter, The pre selector peaks right around 20 just where the chart shows it to be.
dale wt4t

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 4:58 pm
Subject: Re: [DrakeRadio] Birdies on several bands

Dale -

I would say that oscillation is pretty far down the list of likely possibilities. Try a different short length of coax in place of your 2' piece.

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You didn't say if the Preselector was peaking where it 'should' for these frequencies according to the chart in the manual.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>;

yash@... wrote:
> Garey
> what in the antenna input might cause this, what if T-1 is way out? or a bad 12bz6 ?
> dale wt4t
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> -----Original Message-----
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:46 pm
> Subject: Re: [DrakeRadio] Birdies on several bands

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> The only thing that comes to mind is that the RF Amp stage may be
> oscillating due to the capacitance of the 2' cable. If you terminate
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>> To: DrakeRadio@yahoogroups.com
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>>> On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
>>> any ideas where to look.
>>> thanks
>>> dale wt4t
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[Non-text portions of this message have been removed]

5464. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 21:47:52 UTC
From: Garey Barrell
Topic: 5453 Message: 5464

Dale -

I think your coax has a bad ground to the shield. The birdies are not coming from the receiver.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> dale wt4t
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> -----Original Message-----
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 4:58 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
>
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>
> Dale -
>
> I would say that oscillation is pretty far down the list of likely
> possibilities. Try a different short length of coax in place of your 2'
> piece.
>
> Try just putting a 2' length of hook-up wire on the center conductor of
> the ANT jack.

>
> You didn't say if the Preselector was peaking where it 'should' for
> these frequencies according to the chart in the manual.
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5465. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 22:32:22 UTC
From: yash@aol.com
Topic: 5453 Message: 5465

Garey
sub the 1500 or the s line on the same feed,no birdies,but the s and 1500 could look at the coax a bit differant than the R-4? I will make some changes ,have 3 antennas ,a hex, a r-7 and a long wire , will see how the rig reacts. Why did the birdie's continue when connected to the dummy load?
dale

-----Original Message-----
From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Sun, Jun 12, 2011 5:47 pm
Subject: Re: [DrakeRadio] Birdies on several bands

Dale -

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73, Garey - K4OAH
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5466. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 23:27:08 UTC
From: Richard Knoppow
Topic: 5453 Message: 5466

----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 12, 2011 3:32 PM
Subject: Re: [DrakeRadio] Birdies on several bands

> Garey
> sub the 1500 or the s line on the same feed,no
> birdies,but the s and 1500 could look at the coax a bit
> differant than the R-4? I will make some changes ,have 3
> antennas ,a hex, a r-7 and a long wire , will see how the
> rig reacts. Why did the birdie's continue when connected
> to the dummy load?
> dale
>
Its worth checking the coax especially for a flaky shield connection. It may be that the birdies are radiation from the receiver and are being picked up by the coax due to a bad shield but are not evident on another receiver because the conversion and oscillator frequencies are different. I also suggest using one of those receivers to listen for radiation from the Drake by means of both a short wire antenna, just to see if you can hear it and then by means of a short exploring coax with a small coil at the far end. Set up the Drake so that you are hearing birdies and then listen to that frequency with the second receiver while moving the exploring antenna around the chassis. It may be normal radiation.
Also, its worth making up another section of coax to go from the receiver to the antenna switch. If that makes the birdies go away or become much lower in amplitude its the original cable.
A word about "birdies". Normally, what is meant by this term are tunable spurious responses on a receiver caused by internal cross-modulation of the various signals in it. The more complex the receiver the more likely they are. By complex I mean mostly the frequency conversion scheme. A TRF reciever will have no birdies, a double-conversion set will have more than a single conversion one. It is typical for a "birdy" to tune faster than the desired signals because they are due to particular combinations of signals in the receiver and change rapidly when the receiver is tuned. they also tend to be less stable than normal signals. Birdies can also come from spurious oscillations in a receiver. These can come from defective by-passing or other sources of

unwanted regeneration. In designing any super-hetrodyne receiver its usual to make up a chart showing all the combinations and permutations of signal and oscillator frequencies that can result in spurious responses. In a double- or triple- conversion receiver they become very dense. Shielding is also a prime problem in design as in power supply by-passing to eliminate unwanted coupling of circuits that result in both propagation of spurious signals directly and paths of regeneration.
One of the advantages of ham-band-only receivers is that frequency ranges which will have a lot of spurious signals, so called "forbidden" zones, can be conveniently placed in the "deaf" range of the receiver. Can't be done for general coverage so the design becomes much more difficult.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5467. Re: [DrakeRadio] Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-12 23:37:53 UTC
From: Bob Macklin
Topic: 5453 Message: 5467

You can also take the frequency of the birdie and see if it relates to any product of the VFO and het oscillators

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"
----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Sunday, June 12, 2011 4:27 PM
Subject: Re: [DrakeRadio] Birdies on several bands

----- Original Message -----
From: <yash@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, June 12, 2011 3:32 PM
Subject: Re: [DrakeRadio] Birdies on several bands

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--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com

[Non-text portions of this message have been removed]

5468. Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-13 03:05:32 UTC
From: dean_k5dh
Topic: 5468 Message: 5468

Hi all,

It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:

(1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.

(2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?

Thanks and 73,
Dean K5DH

5469. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-13 03:22:04 UTC
From: w5rkl
Topic: 5468 Message: 5469

Hi Dean,

See the answers below

--- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@...> wrote:
>
> Hi all,
>
> It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:
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> (1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.

Yes, RG-62.

>
> (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?

Yes, inexpensive stereo interconnecting cables work fine for Anti-VOX, PTO, and Mute. These circuit have audio and low level DC voltages flowing through them, not RF.

>
> Thanks and 73,
> Dean K5DH
>

73s
Mike
W5RKL

5470. Re: Birdies on several bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-13 03:26:46 UTC
From: w5rkl
Topic: 5453 Message: 5470

Dale,

Yes, you said you connected to the 50 ohm dummy load but did you remove the coax and connect a 50 ohm resistor across the antenna terminals? If not do that then let us know what the results are.

You need to eliminate all possible components at the antenna connection to determine what is causing the birdie problem.

73s
Mike
W5RKL

--- In DrakeRadio@...m, "yash@..." <yash@...> wrote:
>
> Garey
> I switched the antenna switch from the antenna to my dummy load, all off the air signals are gone, the bridie's are strong as ever.
> dale wt4t
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> From: Garey Barrell <k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Sun, Jun 12, 2011 3:46 pm
> Subject: Re: [DrakeRadio] Birdies on several bands
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> > yash@... wrote:
> >
> >> Was playing with my R-4 today and noticed a" birdie" very strong on 20 and 17 meters. Almost as strong as the cal tone.Showed up on 14150,210 ,275 and 335. On 17 showed up at 18120,135, and 145. Pulled the ant connection and gone,the R4 is silent except for a little white noise. If I pull the 2' jumper coax off the ant switch,but still connected to the R-4 , the birdie still there and as loud as when the switch is connected to the antenna. the rig seems to hear fine on both bands,just the birdie is always there. If I pull the jumper coax from the switch,short the coax, still there.
> >> On the same antennas and antenna switch, my S-line does not have the birdies, nor does my Flex 1500. I also noticed on the R-4,This seems to come and go, that it is harder to tune to a CLEAN sounding audio on ssb,always seems a bit rough and not right on.
> >> any ideas where to look.
> >> thanks
> >> dale wt4t
> >>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

5471. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 00:00:18 UTC
From: dean_k5dh
Topic: 5468 Message: 5471

Hi Mike,

Thanks for the info! One more question: any specific length required for the RG-62/U cables?

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Dean,
>
> See the answers below
>
> --- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@> wrote:
> >
> > Hi all,
> >
> > It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:
> >
> > (1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.
>
>
> Yes, RG-62.
>
>
> >
> > (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?
>
>
> Yes, inexpensive stereo interconnecting cables work fine for Anti-VOX, PTO, and Mute. These circuit have audio and low level DC voltages flowing through them, not RF.
>
> >
> > Thanks and 73,
> > Dean K5DH
> >
>
> 73s
> Mike
> W5RKL

5472. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 02:15:39 UTC
From: w5rkl
Topic: 5468 Message: 5472

Hi Dean,

The RG-62 I use is about a foot long. I have the T4XC and R4C next to each other. If your setup has the MS-4 between the transmitter and receiver then you could make the cable 2 feet long. That is about the longest I would make it, 2 feet (24 inches).

I would use good quality metal RCA plugs and not use those cheap plastic wide RCA plugs. For one reason, the RCA sockets on the rear of the receiver are very close together and those wide cheap plastic RCA plugs are difficult in insert once you have the other cables plugged into their appropriate sockets and that includes the antenna and speaker connections (antenna and speaker are right next to each other).

If you are going to operate transceiver then I recommend reading up on this method of operation in the operators manuals.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@...> wrote:
>
> Hi Mike,
>
> Thanks for the info! One more question: any specific length required for the RG-62/U cables?
>
> 73,
> Dean K5DH
>
> --- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hi Dean,
> >
> > See the answers below
> >
> > --- In DrakeRadio@yahoogroups.com, "dean_k5dh" <k5dh@> wrote:
> > >
> > > Hi all,
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> > > It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:
> > >
> > > (1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.
> >

> >
> > Yes, RG-62.
> >
> >
> > >
> > > (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?
> >
> >
> > Yes, inexpensive stereo interconnecting cables work fine for Anti-VOX, PTO, and Mute. These circuit have audio and low level DC voltages flowing through them, not RF.
> >
> > >
> > > Thanks and 73,
> > > Dean K5DH
> > >
> >
> > 73s
> > Mike
> > W5RKL
>

5473. FS: Drake Sherwood C-Line Station

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 10:40:19 UTC
From: Michael
Topic: 5473 Message: 5473

Complete station. R-4C with all three Drake crystal filters, Sherwood custom front panel switch for the USB/LSB CF-2K/8 filter pair, Sherwood CF-600/6 first IF roofing filter, three ten meter crystals, super clean and ready to go. T-4XC in similar condition, full output. AC-4 working good with AC-4R rebuild kit still sealed (never got around to putting it in); MS-4 speaker; original Drake cables with new Lo-Loss PTO and INJ cables; all recently serviced and tweaked by Gary Poland, W8PU. Hi-Res detailed photos at < http://s272.photobucket.com/albums/jj167/wa0epw/?start=all >. I have over $1,500 invested in this station and will consider offers of $900 or better plus packing/shipping from St. Paul MN. Contact off-list at ctrpoint2004(a)yahoo.com . Thank you & 73. Michael WA0EPW

5474. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 12:10:19 UTC
From: andrew
Topic: 5468 Message: 5474

had to build a pair for the halli SX117/HT44 twins . don't remember what length is , hallicrafter has the specific length stated in the manual. I had to do some searching for these and don't remember wher I finally located them , probably mouser or allies electroinics . try mouser first . I used right angle 90 deg. shielded phono plugs . makes a much neater as well as easier hookup and you don't have to bend the cable .
andrew
kd5pnt

[Non-text portions of this message have been removed]

5475. Re: [DrakeRadio] Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 14:02:00 UTC
From: Garey Barrell
Topic: 5468 Message: 5475

Dean -

All original cables were 38" long tip-to-tip.

The INJ, (and CAR OSC in the C-Line, cables used a foam inner dielectric and phono connectors with a white insulation. This cable measures 60 pF total capacity.

All other cables used the standard for the day clear polyethelene inner dielectric and phenolic (brown) insulated phono connectors and measure ~100 pF.

Original Drake INJ and CAR OSC Cables = 19 pF/ft = .160" o.d. (foam poly)

RG-62 = 93R = 13.5 pF/ft = 0.240" o.d.
RG-59 = 75R = 14.8 pF/ft = 0.242" o.d.
RG-6 = 75R = 16.2 pF/ft = 0.270" o.d.
RG-174= 50R = 30.8 pF/ft = 0.110" o.d.
Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
Mic Cable (Belden 8421) = Hi-Z = 16 pf/ft = 0.180" o.d. (foam poly)
R/S Audio Patch Cable = 28 pF/ft = 0.165" o.d. (poly)

The best choice is the Belden 8421 Audio cable from their "Brilliance" line. It looks just like the other cables, and is very flexible. The RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also prone to shorting if bent over too small a radius, and is susceptible to heat damage when soldering connectors. The best "feature" of RG-62 is that it is often FREE, since there have been many miles of it pulled out of old computer networks. Belden 8421 is available by the foot from ACK Electronics in Atlanta. Other distributors have it as well, although many require purchase of a full spool.

(Hi all, I still have some of the Belden 8421 cable left. I sell it for 10 cents an inch or $1.20 a
foot plus shipping vis USPS from Payson, Arizona, 85541, USA. Please email me (directly if you are
interested.
(
(Al, n7ioh

The only pertinent factor is the total capacity. Impedance and "loss" are not important.

Any _reasonably low capacity_ coax will work if the units are cabled together for the adjustment of the INJ trimmers.

The cable type ONLY affects the LEVEL of the PreMix signal, (5.645 MHz ABOVE the transmit/receive frequency,) and a small DC control voltage between the two. If the shunt capacity is too high, insufficient LO

level for the first mixer will reduce the sensitivity of the receiver
and the output power of the transmitter.

Some of the "commercial" cable mfrs use RG-59A, but it's a little larger and also prone to shorting
if bent over too tight a radius.

The ANT lead to the receiver is too short to matter, but you want good shield integrity, which
usually eliminates R/S cables.

The best connectors I've found are the Switchcraft 3502 plugs, available from just about anyone,
Digikey, Mouser, Allied, Newark and just about any reputable parts place.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dean_k5dh wrote:
> Hi all,
>
> It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:
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> (1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.
>
> (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?
>
> Thanks and 73,
> Dean K5DH
>
>

5476. DRAKE FILTER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 21:58:31 UTC
From: w1fued@sbcglobal.net
Topic: 5476 Message: 5476

I bought a box of drake parts, seems they are for the r4c, or mostly.
Found two filters in there marked :

Heath dynamics 5645-8 My r4c says Piezo filter, is this the same 1 st if filter for the R4C or an aftermarket 8 pole? Any ideas?
Cant find any info on it...

If it is, could I put it in my spr 4, think its a better filter but dont know about the impedences.

Any ideas?

Thanks,
Ed W1FU

5477. Re: [DrakeRadio] DRAKE FILTER

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-14 22:26:25 UTC
From: Bill Frost
Topic: 5476 Message: 5477

Hello Ed,
The SPR-4 crystal filter is square and has an impedance of 1200 ohms. The R-4C 1st IF is 900 ohms and the 2nd IF is 50 ohms and filters are rectangular.
73, Bill

--- On Tue, 6/14/11, w1fued@... <w1fued@...> wrote:

From: w1fued@... <w1fued@...>
Subject: [DrakeRadio] DRAKE FILTER
To: DrakeRadio@yahoogroups.com
Date: Tuesday, June 14, 2011, 5:58 PM

I bought a box of drake parts, seems they are for the r4c, or mostly.
Found two filters in there marked :

Heath dynamics 5645-8 My r4c says Piezo filter, is this the same 1 st if filter for the R4C or an aftermarket 8 pole? Any ideas?
Cant find any info on it...

If it is, could I put it in my spr 4, think its a better filter but dont know about the impedences.

Any ideas?

Thanks,
Ed W1FU

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5478. Still Looking for Drake RV4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-15 14:10:57 UTC
From: billykatzz
Topic: 5478 Message: 5478

Looking to purchase an RV4C remote VFO. Please email with description and asking price. Pictures would be nice.

TNX EX 73

Bill in Pasadena

5479. TR-4C K2 Relay Not Energizing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-15 22:44:47 UTC
From: w4rl@bellsouth.net
Topic: 5479 Message: 5479

Fellas,

What would keep the K2 relay in a Drake TR-4C from not energizing. My TR-4C had been stored inside a closet for about a year and I put it back on line in the shack. The relay worked for a while then quit. I get plate resonance or what I think is such still but no peaks on mic gain increase.

Thanks

Robert W4RL

5480. Re: [DrakeRadio] TR-4C K2 Relay Not Energizing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 01:40:35 UTC
From: Garey Barrell
Topic: 5479 Message: 5480

Robert -

Relay R2 in the TR-4 is energized ONLY in X-CW and X-AM modes. It does NOT energize in either CAL
or SSB.

Are you able to set the IDLE current on the PA?

Is there RF output in X-CW (TUNE) mode?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w4rl@... wrote:
> Fellas,
>
> What would keep the K2 relay in a Drake TR-4C from not energizing. My TR-4C had been stored inside a closet for about a year and I put it back on line in the shack. The relay worked for a while then quit. I get plate resonance or what I think is such still but no peaks on mic gain increase.
>
> Thanks
>
> Robert W4RL
>
>

5481. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 06:47:00 UTC
From: Victor
Topic: 606 Message: 5481

Gary
Whilst we are on the subject of relays I have a similar problem with my 4XC. It has suddenly stopped keying (CW). I get full output on 'tune' and the correct idling current. I can also hear the relay latching in but no output when keying - even with the gain at max. The controls are at LSB - x and x-cw.
Any ideas before I open it up, please?
Vic
G4JSS

5482. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 12:52:22 UTC
From: Garey Barrell
Topic: 606 Message: 5482

Vic -

Do you get output in X-AM? Low power, 10-20W.

If you DO NOT, check in CW MODE for 0-1.5 VDC varied by the GAIN control on the coax lead to T14
(back in the CO compartment).

If you DO, check R104, 105 and 106 and associated contacts on switch section S1D(r).

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Gary
> Whilst we are on the subject of relays I have a similar problem with my 4XC. It has suddenly stopped keying (CW). I get full output on 'tune' and the correct idling current. I can also hear the relay latching in but no output when keying - even with the gain at max. The controls are at LSB - x and x-cw.
> Any ideas before I open it up, please?
> Vic
> G4JSS
>
>

5483. FS: MN-2000 manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 19:48:53 UTC
From: k9sqg
Topic: 5483 Message: 5483

Have an original MN-2000 manual, includes the QC tag stapled to the inside front cover. Will ship it for $15 to your mailbox, lower 48 states only, not Alaska, Hawaii, or foreign countries.

73,

Evan, K9SQG

5484. Re: [DrakeRadio] TR-4C K2 Relay Not Energizing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 21:13:49 UTC
From: lee
Topic: 5479 Message: 5484

Garey:

I have a lot of each and my feelings plus those of some of my friends are:
Collins mechanical and metal workmanship is superb. When it comes to the
electronics, Collins many times used more expensive parts which were not
always better but Drake electronic circuits worked better. (More band
coverage per crystal, better AGC, etc.). The parts which cost less and used by Drake have
held up extremely well over the years. (Coil forms, switches, etc). This is true only if
Robin Hood
Forest crap is not installed! No Robin Hood Forest stuff allowed by the
w0vt Chief Engineer around here.

Lee, w0vt

From: Garey Barrell
Sent: Wednesday, June 15, 2011 8:40 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR-4C K2 Relay Not Energizing

Robert -

Relay R2 in the TR-4 is energized ONLY in X-CW and X-AM modes. It does NOT energize in
either CAL
or SSB.

Are you able to set the IDLE current on the PA?

Is there RF output in X-CW (TUNE) mode?

73, Garey - K4OAH
Glen Allen, VA

[Non-text portions of this message have been removed]

5485. Re: [DrakeRadio] TR-4C K2 Relay Not Energizing

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-16 21:55:49 UTC
From: Richard Knoppow
Topic: 5479 Message: 5485

----- Original Message -----
From: "lee" <pulsarxp@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, June 16, 2011 2:13 PM
Subject: Re: [DrakeRadio] TR-4C K2 Relay Not Energizing

> Garey:
>
> I have a lot of each and my feelings plus those of some of
> my friends are:
> Collins mechanical and metal workmanship is superb. When
> it comes to the
> electronics, Collins many times used more expensive parts
> which were not
> always better but Drake electronic circuits worked better.
> (More band
> coverage per crystal, better AGC, etc.). The parts which
> cost less and used by Drake have held up extremely well
> over the years. (Coil forms, switches, etc). This is
> true only if Robin Hood
> Forest crap is not installed! No Robin Hood Forest stuff
> allowed by the
> w0vt Chief Engineer around here.
>
> Lee, w0vt
>

Drake seems to have done will with its mechanical design and components. I don't have nearly the experienc on it of others but have found that mostly its electrolytics that go bad (as would be expected). Other caps usually are OK. I've changed some because I was trouble shooting but they did not need to be changed. Drake seems to have good good quality composition resistors. Again, I've found some that were way off value but mostly in expected locations and not enough to shotgun them.
From the standpoint of performance the Drake construction technique works very well, very short leads, etc. That makes it hard to work on but considering the age of this stuff and that much of it has been neglected in various ways, it doesn't need a lot of work.
Collins approach to construction was, I think, generated by their history of making aeronautical and military equipment. I also think they had some innovative circuit designers but ham radio seems to have been definitely a secondary market to them especially after WW-2.

There were other manufacturers after about 1950 with innovative design but few seemed to have the combination of good performance, good value, and business acumen that Drake did. Hallicrafters is a curious case, they were the only one of the big three (National and Hammarlund being the others) who seems to have caught on to the SSB movement early but I think were so oriented to semi-consumer equipment and having too many bells and whistles that their no question innovative designs in many cases simply were not executed well. Nonetheless some H equipment is still highly desirable. Hammarlund and National do not seem to have weathered re-conversion well at all. National eventually came up with some very advanced receivers but too late to give them a footing in the market. Drake stuff had the right combination of performance, affordable price, and _usable_ features that made it successful and still a contender among much newer equipment.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5486. R4B or T4XB plastic dial

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-17 04:40:40 UTC
From: w5rkl
Topic: 5486 Message: 5486

I'm still looking for an R4B or T4XB plastic dial. If anyone has one, drop me an e-mail and let me know the particulars. My e-mail address is good here and on qrz.com.

Thanks and 73s
Mike
W5RKL

5487. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-17 19:47:51 UTC
From: dean_k5dh
Topic: 5468 Message: 5487

Hi Garey,

After reading your response, I gather that the most important thing is to end up with a cable assembly that's about 60 pF total. You recommend Belden 8421, whose capacitance is 16 pF per foot, or 1.333333 pF per inch. That means the cable ass'y would have to be 45 inches long to yield 60 pF. Is that right, or are my math skills failing me? To reach from the TX to the RX, the cable only needs to be about 16 inches long. I guess I could roll up and zip-tie the 45 inch cables and and tuck them behind the station, but that's messy.

If the important thing is to end up with 60 pF, then why couldn't I use 23.4 inches of RG-174? If my calcs are correct, that should yield about 60 pF. You stated that the impedance of the cable doesn't matter. RG-174 is plenty flexible, I've had good success at soldering it without melting the center dielectric, and I have a bunch of it in my cable stash.

I know we should probably be having this discussion via private e-mail, but I'm hoping others will benefit from it also.

73,
Dean K5DH

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Dean -
>
> All original cables were 38" long tip-to-tip.
>
> The INJ, (and CAR OSC in the C-Line, cables used a foam inner dielectric and phono
> connectors with a white insulation. This cable measures 60 pF total capacity.
>
> All other cables used the standard for the day clear polyethelene inner
> dielectric and phenolic (brown) insulated phono connectors and measure ~100 pF.
>
> Original Drake INJ and CAR OSC Cables = 19 pF/ft = .160" o.d. (foam poly)
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> Mic Cable (Belden 8410) = Hi-Z = 33 pf/ft = 0.160" o.d. (foam poly)
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>
> The best choice is the Belden 8421 Audio cable from their "Brilliance"
> line. It looks just like the other cables, and is very flexible. The
> RG-62 is OK, but it is 50% larger and far less flexible. RG-62 is also

> prone to shorting if bent over too small a radius, and is susceptible to
> heat damage when soldering connectors. The best "feature" of RG-62 is
> that it is often FREE, since there have been many miles of it pulled out
> of old computer networks. Belden 8421 is available by the foot from ACK
> Electronics in Atlanta. Other distributors have it as well, although
> many require purchase of a full spool.
>
> (Hi all, I still have some of the Belden 8421 cable left. I sell it for 10 cents an inch or $1.20 a
> foot plus shipping vis USPS from Payson, Arizona, 85541, USA. Please email me (directly if you are
> interested.
> (
> (Al, n7ioh
>
>
> The only pertinent factor is the total capacity. Impedance and "loss"
> are not important.
>
> Any _reasonably low capacity_ coax will work if the units are cabled
> together for the adjustment of the INJ trimmers.
>
> The cable type ONLY affects the LEVEL of the PreMix signal, (5.645 MHz
> ABOVE the transmit/receive frequency,) and a small DC control voltage
> between the two. If the shunt capacity is too high, insufficient LO
> level for the first mixer will reduce the sensitivity of the receiver
> and the output power of the transmitter.
>
> Some of the "commercial" cable mfrs use RG-59A, but it's a little larger and also prone to shorting
> if bent over too tight a radius.
>
> The ANT lead to the receiver is too short to matter, but you want good shield integrity, which
> usually eliminates R/S cables.
>
> The best connectors I've found are the Switchcraft 3502 plugs, available from just about anyone,
> Digikey, Mouser, Allied, Newark and just about any reputable parts place.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> dean_k5dh wrote:
> > Hi all,

> >
> > It's been many years since I've owned a C-Line, and now I'm putting one together. I have two questions regarding the interconnections between the T-4XC and R-4C:
> >
> > (1) The T-4XC manual instructs the reader to use "low-capacity" coax cables for the Injection and Carrier Oscillator connections. What type of coax is that? I seem to recall that it was RG-62/U, but I may be wrong.
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> > (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?
> >
> > Thanks and 73,
> > Dean K5DH
> >
> >
>

5488. Re: [DrakeRadio] Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-17 20:16:53 UTC
From: Garey Barrell
Topic: 5468 Message: 5488

Dean -

I wasn't quite clear enough! :-)

The 60 pF figure should be taken as a maximum. It is essentially 'across' the output of the PreMixer of the driving unit, so acts as a bypass capacitor, ergo, the less the better. A 60 pf
cable looks like a 470 ohm load, while the 100 pF would be 280 ohms. Obviously Drake had no way to
know which receiver would be used with which transmitter, so they just adjusted all units to work
with the 60 pF cable they supplied. This is also the reason why it's best to peak the INJ trimmers
with the two units connected together.

The 60 pf specified in my note is end-to-end, _including_ the capacitance of the RCA phono plugs
on each end. This would imply that the plugs were about 6 pF each, but I've never measured just the
connector! Years ago I just measured the capacitance of a Drake INJ cable on a bridge.

The rest of the cables were all 'three foot' patch cables and had phenolic insulators in the
connectors. The INJ cable was made to be the same length as the others, and had a clear or white
insulator in the connectors, probably polystyrene back then.

So bottom line is, keep the total cable capacity as low as feasible, and touch up the INJ trimmers
on both units with the cable installed.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

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>> heat damage when soldering connectors. The best "feature" of RG-62 is
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>> of old computer networks. Belden 8421 is available by the foot from ACK
>> Electronics in Atlanta. Other distributors have it as well, although
>> many require purchase of a full spool.
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>> (Hi all, I still have some of the Belden 8421 cable left. I sell it for 10 cents an inch or $1.20 a
>> foot plus shipping vis USPS from Payson, Arizona, 85541, USA. Please email me (directly if you are
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>> (

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>> are not important.
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>> ABOVE the transmit/receive frequency,) and a small DC control voltage
>> between the two. If the shunt capacity is too high, insufficient LO
>> level for the first mixer will reduce the sensitivity of the receiver
>> and the output power of the transmitter.
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>> Some of the "commercial" cable mfrs use RG-59A, but it's a little larger and also prone
to shorting
>> if bent over too tight a radius.
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>> The ANT lead to the receiver is too short to matter, but you want good shield integrity,
which
>> usually eliminates R/S cables.
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>> The best connectors I've found are the Switchcraft 3502 plugs, available from just about
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>> Digikey, Mouser, Allied, Newark and just about any reputable parts place.
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cables, since those are not RF connections?
>>>
>>> Thanks and 73,
>>> Dean K5DH

>>>

5489. Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-18 00:51:54 UTC
From: dean_k5dh
Topic: 5468 Message: 5489

Hey Garey,

Thanks for the clarification. The bottom line now seems to be: (1) the less capacitance, the better, and (2) tweak the injection trimmers in the TX and RX no matter what. So, it sounds like if I obtain some Belden 8421 and some good quality RCA plugs, make the jumpers physically short (just long enough to do the job), and then tweak the trimmers, I should be in good shape. Am I on the right track now? :)

73,
Dean K5DH

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> I wasn't quite clear enough! :-)
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> PreMixer of the driving unit, so acts as a bypass capacitor, ergo, the less the better. A 60 pf
> cable looks like a 470 ohm load, while the 100 pF would be 280 ohms. Obviously Drake had no way to
> know which receiver would be used with which transmitter, so they just adjusted all units to work
> with the 60 pF cable they supplied. This is also the reason why it's best to peak the INJ trimmers
> with the two units connected together.
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> The 60 pf specified in my note is end-to-end, _including_ the capacitance of the RCA phono plugs
> on each end. This would imply that the plugs were about 6 pF each, but I've never measured just the
> connector! Years ago I just measured the capacitance of a Drake INJ cable on a bridge.
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> The rest of the cables were all 'three foot' patch cables and had phenolic insulators in the
> connectors. The INJ cable was made to be the same length as the others, and had a clear or white
> insulator in the connectors, probably polystyrene back then.
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> So bottom line is, keep the total cable capacity as low as feasible, and touch up the INJ trimmers
> on both units with the cable installed.
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> Glen Allen, VA
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> >>> (2) For the Mute, Anti-VOX, and PTO Lamp connections, can I use audio-type shielded cables, since those are not RF connections?
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> >>> Thanks and 73,
> >>> Dean K5DH
> >>>
>

5490. 4-Line PTO Range

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-18 01:18:53 UTC
From: Darrell Bellerive
Topic: 5490 Message: 5490

What was the range of the 4-line PTO?

The specs list 500 kHz, but I wonder if one could tune a few kHz above or below this range? I know my Heathkit SB-101 would go 10 to 15 kHz more on each end of the LMO than the 500 kHz spec.

73,
Darrell Bellerive
Amateur Radio Station VA7TO

5491. Re: [DrakeRadio] Re: Question re: C-Line interconnect cables

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-18 03:08:23 UTC
From: Garey Barrell
Topic: 5468 Message: 5491

Dean -

You got it. Don't make the cable too short. There is nothing wrong with 36" of 8421, and short
cables lead to strain on connector terminations when gear is moved around!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>>>>> Thanks and 73,
>>>>> Dean K5DH
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>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

5492. Re: [DrakeRadio] 4-Line PTO Range

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-18 03:10:51 UTC
From: Garey Barrell
Topic: 5490 Message: 5492

Darrell -

The Drake PTOs will go at least 100 kHz extra on either end. I've never checked the linearity in
those regions, but they'll easily go that far.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> 73,
> Darrell Bellerive
> Amateur Radio Station VA7TO
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5493. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-18 08:42:36 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5493

Hi Gary
Thanks for info which I have saved. Going on vacation and won't have chance to look 'til I get back.
Thanks again
Vic

5494. Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-19 12:51:27 UTC
From: merlin_20832
Topic: 5494 Message: 5494

Are the crystals in the r-4b interchangeable with the spr-4?
Thanks

5495. Re: [DrakeRadio] Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-19 15:02:43 UTC
From: Garey Barrell
Topic: 5494 Message: 5495

Yes and no.

The crystals WILL 'work', but will be 10 kHz off frequency. Crystals for the other receivers in the
4-Line all use a crystal 11.1 MHz above the bottom end of the desired coverage, e.g., to cover from
3.0 to 3.5 MHz takes a crystal at 14.1 MHz. In the SPR-4, coverage of this same range takes a
crystal at 14.09 MHz.

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merlin_20832 wrote:
> Are the crystals in the r-4b interchangeable with the spr-4?
> Thanks
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5496. Re: Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-19 15:33:35 UTC
From: Gary
Topic: 5494 Message: 5496

Also, aren't the SPR-4 crystals physically smaller?
Gary
WB6OGD

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
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> merlin_20832 wrote:
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5497. Re: [DrakeRadio] Re: Crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-19 15:54:56 UTC
From: Garey Barrell
Topic: 5494 Message: 5497

Gary -

Yes, I believe you're correct, it uses HC-49s I think. So you'd also need some sort of adapter.

Ok for experimental use, but new crystals seem a better choice.

International Crystal Mfg. <www.icmfg.com>

73, Garey - K4OAH
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>> merlin_20832 wrote:
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>>> Thanks
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5498. TR-4 Redux

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-22 21:36:33 UTC
From: Richard Knoppow
Topic: 5498 Message: 5498

This is being posted to both Drake lists. Some time ago I wrote asking some questions about a TR-4 I had just aquired. While in generally very good condition it had some problems, a couple of which were puzzling. I pretty much found the solutions to all and have the rig working very well now. Much thanks are due to Garey Barrell who is not only a fount of knowledge but a very patient person:-)

Problems and solutions:
No signals on the three ten meter bands.
This turned out to be a very persistent oxidized section of the band switch. I found that the problem was cured by dosing it with contact cleaner but the next day it would be back again. Beside cleaning the contacts I also re-flowed the solder joints around the switch but it seems to have been oxidation mainly. I am still not sure I have a permanent cure but what I did was to scrub the rotor with contact cleaner using a soft wooden stick. This was an extra-large toothpick of the sort used to hold sandwiches together but a wooden match stick would do. After scrubbing I applied a small amount of General Cement Tuner Lub. I've had goog results with this in the past for salvaging persistently intermittant rotary switches. Well, it seems to be working, I will report later on whether it continues to keep the switch working.
Another annoying problem was a feedback when adjusting the RF tuning for receive. This came from a signal emmitted by the AM detector/side tone generator tube. Garey suggested bad by-pass caps but I tried bridging the caps with new ones and there was no change. I cured the problem by shielding the tube. I used a push-on type shield which is grounded by the two screw ends sticking up next to the socket. No modification needed. It works perfectly and completely eliminated the feedback. I note here that I did not actually replace the caps because they are packed in tight, _no_ leads whatever. Also, the originals are ceramic discs, unlikely to have gone bad.
Low power output. That was just bad final tubes. They would make about 60 watts on 80 meters. I had some spares for my T-4XB and got some additional ones from my tube source. I also made up an adaptor socket for my TV-7B tube tester and checked all of my 6JB6 tubes on it. This allowed me to cull out the bad ones and to get a set of tubes with a reasonable match. After installing the new set the power went up to around 180 watts on 80 and over 100 on 10 meters.

The tubes neutralized easily even though they are mixed brands.
The adaptor is simple to make. I was able to get the necesssary sockets and plugs from my tube guy. Total cost of this adaptor was probably a dollar.
I managed to zap the "fuse" lamp in the antenna circuit and had to get new ones from the internet. They are No.12 lamps, same rating as a No.47 but are in small envelopes with a stem seal base. I found after putting the new one in that is was intermittant. Cured that by cleaning the lamp contacts, squeezing the socket contacts, applying Deoxit and as with the switch Tuner-Lub. It now seems to be solid.
I can't think of any other major problems. I did a complete alignment and that brought up the receiver sensitivity to spec where it was a bit low. The specs say that the meter should read S-9 from about 30 uV. While this is hardly a precision measurement I was getting about S-7 before aligning. It now reads correctly.
Bouncing meters. Both meters bounce. I tried shorting right across the meter terminals (with the power off of course), the meters still bounced. That says they are cheap meters without strong enough magnets to damp them properly. Good meters will be sluggish when shorted. Garey says this is a common problem and that some users have had luck putting capacitors across the terminals. I will try that in the future but the fact that the meters have poor damping when shorted makes me think the caps would not cure the problem. Its annoying because it makes it difficult to tune the plate quickly.
I am at the moment without an antenna, very frustrating but I can check the receiver part using a makeshift antenna (not good enough for transmitting) and check the tansmitter using a dummy load and second receiver. The quality of both is excellent. This is a very good little SSB rig. I don't much like its AM quality either transmitting or receiving. Its acceptable for CW but the selectivity of the RX is insufficient for regular use.
One other thing, the blue filters in the dials were not the correct gel. When dimmed the dials became unreadable and were pretty dim even with the dial lamps at full brightness. I took the filters out and will eventually replace them with the correct Lee gelatins.
I also had to replace the neon VFO indicator lamp. These get weak with age. The one I took out was almost black inside. I was able to get exact replacements from Newark supply. They are very cheap. I thought I was ordering five lamps and wound up with five _boxes_ of lamps. They are not hard to change although it does require removing the front panel. Probably has to be done every twenty years or so:-)
I hope any of this is helpful to someone else.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5499. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-26 19:09:04 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5499

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5500. New member and request for help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-27 15:12:44 UTC
From: g4bzi
Topic: 5500 Message: 5500

Hi,

I've recently acquired an early model TR-4 (1965 vintage) which requires a lot of TLC to bring it back into use, so decided to join the Group and make use of the knowledge base. Have previously owned 2-B and 2-C receivers which were great performers.

Can anyone help answer the following TR-4 questions please?
- does the early (original?) model TR-4 (6HS6 tx mixer) schematic or manual differ much from the 1966 version (6EJ7 tx mixer) - I only have a copy of the latter. If anyone can provide a copy of the early version that would be great!
- I don't have an AC-4 psu, but I do have a Heathkit HP23B psu - I have read that this can be used (outboard bias pot required) but is the higher B+ (800V) of the HP23B a problem?

Thanks in advance for any help.

Roger
G4BZI

5501. Re: [DrakeRadio] New member and request for help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-27 17:04:46 UTC
From: Don Cunningham
Topic: 5500 Message: 5501

Roger,
I would think that the differences between the schematics would be considerable between those. I recommend Garey Barrel's CD's on the Drake gear to work on any of them. Contains not only all the schematics, but good parts placements pictures in color that are VERY valuable when working on these. Contact Garey at k4oah@... for details. I wouldn't use the Heathkit power supply on the Drakes, as the high voltage was designed for the 6146's, not our 6JB6's. I think it would stress them greatly.
73 and welcome to the group,
Don, WB5HAK

[Non-text portions of this message have been removed]

5502. Re: [DrakeRadio] New member and request for help

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-27 17:26:38 UTC
From: Garey Barrell
Topic: 5500 Message: 5502

Roger -

Yes, there are several differences between Version 1, and the next seven versions of the TR-4. I
have sent you a copy of the correct schematic directly as the list doesn't permit attachments.

I've never tried using an HP-23 supply, but the AC-4 supplies 700 VDC at no load. That voltage is
only applied to the PA stage, and the components in the path should be able to withstand that
voltage. You wouldn't load quite as high in PLATE current, but the mismatch should be within the
limits of the Pi-Net to match. As you say, the BIAS must be made adjustable.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4bzi wrote:
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>
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> Can anyone help answer the following TR-4 questions please?
> - does the early (original?) model TR-4 (6HS6 tx mixer) schematic or manual differ much from the 1966 version (6EJ7 tx mixer) - I only have a copy of the latter. If anyone can provide a copy of the early version that would be great!
> - I don't have an AC-4 psu, but I do have a Heathkit HP23B psu - I have read that this can be used (outboard bias pot required) but is the higher B+ (800V) of the HP23B a problem?
>
> Thanks in advance for any help.
>
> Roger
> G4BZI
>
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> ------------------------------------
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> Yahoo! Groups Links
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5503. RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-29 02:18:20 UTC
From: Paul Kraemer
Topic: 5503 Message: 5503

For Sale (1) Drake RP-500 Receiver Protector

A little sealed box that installs between antenna and receiver

Have tested "on-line" and does not impair receive .

$30 shipped any where in lower 48 states.

Paul K0UYA

5504. looking for a B or C-line.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-06-29 21:02:37 UTC
From: yash@aol.com
Topic: 5504 Message: 5504

Anyone have a B-line for sale complete,or will piece meal a B-line together. looking for decent copper,nice face and dial and non bent or dinged cabinets and a ac-4 with a good transformer. Would also consider the same in a C-line,modified or standard edition.
thanks for reading
dale wt4t

[Non-text portions of this message have been removed]

5505. install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-03 17:03:13 UTC
From: yash@aol.com
Topic: 5505 Message: 5505

Would like to talk with someone who has done the Sherwood mods to the R4C. Curious how involved they are and your reaction to the mods after being done. Is there any of them you would skip over.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5506. B-line service cd

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-04 18:16:20 UTC
From: yash@aol.com
Topic: 5506 Message: 5506

Sold the B-line ,have a k4oah b-line service cd, left over.
asking 10.00
thanks
dale wt4t

=

[Non-text portions of this message have been removed]

5507. b-line service cd

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-04 19:59:57 UTC
From: yash@aol.com
Topic: 5507 Message: 5507

Thanks to all,cd has been sold.
dale wt4t

[Non-text portions of this message have been removed]

5508. DRAKE R-4B SHORTWAVE HAM RECEIVER WITH MS-4 SPEAKER FOR AUCTION

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 01:12:07 UTC
From: merlin_20832
Topic: 5508 Message: 5508

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=260813008267&ssPageName=STRK:MESELX:IT

5509. Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 16:17:29 UTC
From: w5rkl
Topic: 5505 Message: 5509

Hi Dale,

I responded to your questions yesterday evening but it appears my response didn't make it for what ever reason.

I have a 20K serial number R4C that I have installed the following Mods and Filters

Sherwood Mods:

1. Power supply
2. Filter capacitor board FC-4. This was before Heyseedhamfest.com marketed their R4C capacitor kit.
3. 3rd Mixer (MIX-4)
4. AMP-4 audio amplifier

INRAD Filters:

1. 6Khz AM filter
2. 500Hz and 250Hz CW filters
3. 6Khz GUF-1 first IF filter
4. 1.8Khz SSB filter

Installing the Sherwood modes was rather easy. The only mod that required drilling was the GUF-1 since INRAD's GUF-1 filters are physically smaller than the larger factory Drake filter. A template comes with the GUF-1 filters for drilling the mounting and input/output pin holes.

The Sherwood power supply requires soldering a 1/2" copper strap to the side wall of the R4C chassis. A large wattage soldering pencil is required to do attach the copper strap to the side wall of the R4C's chassis. The instructions are complete and easy to follow. No guessing as to how the wires are to be connected.

The 3rd mixer requires removing the 3rd mixer tube, a 6EJ7 in my R4C, then making a couple of wiring changes, then connect the mixer. The tube socket remains "empty", no tube installed.

The audio amp, AMP-4 is easy to install. The wiring to the audio transistor on top of the R4C chassis, between the LMO and the power transformer, is removed/disconnected. The AMP-4 PC board is mounted directly behind the front panel, next to the audio gain and phone socket. Instructions are provided with a picture of how the AMP-4 board is installed. Easy to install, about 30 minutes for me.

Depending on which R4C you have (3 or 5 position MODE switch settings) determines where the AM filter is installed. In the 3 position MODE switch R4C the AM filter is installed on the rear panel while the 5 position MODE switch, the AM filter is installed inside the R4C, on the left side of the rear bracket.

The SSB and CW filters install on the rear panel, even with the 5 position MODE switch position R4C.

As for improvements, the Sherwood power supply significantly reduces the heat produced in the R4C, regardless what version R4C you have.

The AMP-4 audio amplifier has a nice frequency response, not a "tinny" sound. The IC chip is an LM-383, the older version of the current TDA-2003 7 watt audio chip. The AMP-4 will produce over 2 watts of audio without distortion.

The 3rd mixer is suppose to eliminate 3rd mixer noise. I can't say I did a "before" and "after" comparison but it works rather well.

Before you install any mods and filters from Sherwood and INRAD, I would ensure the alignment of your R4C is correct (see the R4C manual for alignment instructions). If any tubes are gassy then the alignment, for example, of the S meter will not align properly. Therefore, if you suspect any tubes may be gassy, replace them before you attempt aligning the R4C. You can tell if a tube is gassy by measuring the tube's grid voltage on each side of the grid resistor. If the grid voltage is more positive on the grid side of the resistor than on the opposite side of the grid resistor then the tube is most likely gassy. I checked the alignment of my R4C before installing any mods and filters. I was lucky, the alignment was very close to the factory alignment, I only needed to tweak a few adjustments to bring the R4C into the factory alignment.

I like the way my R4C performs after installing the mods and filters. The 250Hz CW filter does not ring. When using the 500Hz and 250Hz CW filter along with the Notch and Passband controls, elimination or significantly reducing adjacent frequency interference is greatly improved. The 6Khz AM filter does an excellent job on AM. You will see a significant difference in AM operation by installing the AM filter instead of the resistor across the filter terminals.

The draw back is the overall cost. The 4 INRAD filters will cost you approximately $650 plus shipping (current INRAD prices). The Sherwood mods will cost approximately $160 for a total of $818 plus shipping cost. Sherwood charges $20 shipping (see the Sherwood site for full shipping cost details).

Another thing you should consider and that is, if you do not plan on keeping your R4C then spending $818 plus shipping cost for the mods and filters may not be worth it to you. I still have and continually use my R4C and have no plans on selling my modified R4C. I paid $100 for my R4C at the Friedrichshafen, Germany hamfest back several years ago, I was working for General Dynamics in Vaihengen Germany near Stuttgart at the time.

I hope this helps answer you questions about the Sherwood and INRAD filter mods.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
>
>
>
> Would like to talk with someone who has done the Sherwood mods to the R4C. Curious how involved they are and your reaction to the mods after being done. Is there any of them you

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> dale wt4t
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> [Non-text portions of this message have been removed]
>

5510. TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 16:40:50 UTC
From: w1kilofoxtrot
Topic: 5510 Message: 5510

Well, carrier balance would be a mis-nomer, since it does not appear to balance at all. My SSB signal (into a dummy load) is rather more like AM. I suspect the diodes in the TX mixer (T14?) may be bad, but as it looks like a pain in the rump to chase down, I thought I'd ask the collective if there's something else I might have missed.

Any thoughts as to anything else I should run to ground first??

73,
Steve
W1KF

5511. Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 16:49:06 UTC
From: w5rkl
Topic: 5505 Message: 5511

Dale,

In my recent response I said the cost of "4" filters was approximately $650. The "4" is wrong. The $650 is for "5" filters, SSB, AM, 2 x CW (500hz and 250hz), and the GUF-1 filter, hence "5" filters, not "4".

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Dale,
>
> I responded to your questions yesterday evening but it appears my response didn't make it for what ever reason.
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> 73s
> Mike
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> --- In DrakeRadio@yahoogroups.com, "yash@" <yash@> wrote:
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> > [Non-text portions of this message have been removed]
> >
>

5512. Re: [DrakeRadio] TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 17:28:52 UTC
From: Richard Knoppow
Topic: 5510 Message: 5512

----- Original Message -----
From: "w1kilofoxtrot" <w1kf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 05, 2011 9:40 AM
Subject: [DrakeRadio] TR-4C carrier balance

> Well, carrier balance would be a mis-nomer, since it does
> not appear to balance at all. My SSB signal (into a dummy
> load) is rather more like AM. I suspect the diodes in the
> TX mixer (T14?) may be bad, but as it looks like a pain in
> the rump to chase down, I thought I'd ask the collective
> if there's something else I might have missed.
>
> Any thoughts as to anything else I should run to ground
> first??
>
> 73,
> Steve
> W1KF
>

A couple of questions: Does the balance control have any
effect at all, and does the balance capacitor have any
effect? The latter might not if the balance is way off. I
think the only way to determine if the diodes are bad is to
measure them.
If you have a two channel scope you can look at the
drive to the diodes with one channel inverted, that will
tell you if the drive to the diodes is balanced.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5513. Re: TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 18:09:04 UTC
From: w1kilofoxtrot
Topic: 5510 Message: 5513

Thanks for the idea to look at the two inputs, could eliminate the pot as a possible. There was no discernible effect going 10 turns on the pot, so did not even bother with the cap.

Will try looking at that, and see what I find!

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "w1kilofoxtrot" <w1kf@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 05, 2011 9:40 AM
> Subject: [DrakeRadio] TR-4C carrier balance
>
>
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>
>
> --
> Richard Knoppow
> Los Angeles

> WB6KBL
> dickburk@...
>

5514. Re: [DrakeRadio] Re: TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 18:33:49 UTC
From: Garey Barrell
Topic: 5510 Message: 5514

Steve -

You can do an ohmmeter check, preferably the DIODE TEST function of a DMM. With the FUNCTION switch
in the CAL position, power off, measure from the terminal of T14 with the center lead of the
shielded lead connected to it to chassis. ?With a DMM you should read TWO diode drops (about 0.7 V
for two Germanium diodes) in either direction (polarity). With an ohmmeter, you should see approximately the same low resistance either way. Hard to say what is correct, since it depends
upon the ohmmeter circuit and battery voltage, etc. The key is that it should read the same EITHER way.

These diodes have been known to develop a short to the can, in which case you only see ONE diode
drop (~0.35V). Of course if a diode is open or shorted (VERY unusual) your meter should read
accordingly.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w1kilofoxtrot wrote:
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>
> Will try looking at that, and see what I find!
>
> 73,
> Steve
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> --- In DrakeRadio@yahoogroups.com, "Richard Knoppow"<1oldlens1@...> wrote:
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>> If you have a two channel scope you can look at the
>> drive to the diodes with one channel inverted, that will
>> tell you if the drive to the diodes is balanced.
>>
>>
>> --
>> Richard Knoppow
>> Los Angeles
>> WB6KBL
>> dickburk@...
>>

5515. Re: [DrakeRadio] Re: TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 19:43:28 UTC
From: Richard Knoppow
Topic: 5510 Message: 5515

----- Original Message -----
From: "w1kilofoxtrot" <w1kf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 05, 2011 11:09 AM
Subject: [DrakeRadio] Re: TR-4C carrier balance

> Thanks for the idea to look at the two inputs, could
> eliminate the pot as a possible. There was no discernible
> effect going 10 turns on the pot, so did not even bother
> with the cap.
>
> Will try looking at that, and see what I find!
>
> 73,
> Steve
> W1KF

I should have suggested testing the pot and the build
out resistors first using an ohm meter. If the pot is bad or
one of the resistors has gone open or has changed value
substantially, that is your problem. The RF test is useful
if all the resistors look good.
I am not sure how the diodes are mounted in the TR-4C,
in my T-4XB and TR-4 the diode bride is mounted inside the
can with the transformer. Its easy to get off by compressing
the spring catches at the sides. Once off you can check the
diodes and see if there is anything that might be shorting
to the can. I think its ver unlikely that the diodes are bad
but there may be a short or perhaps a cold solder joint.
Check the resistors with an ohm meter first. I don't
know why I didn't include that in my first post.
I had a struggle with my T-4XB due to what turned out to
be a wiring error probably made by a former owner. The
wiring _looked_ fine and I chanced all around Robin Hood's
barn trying to find the reason the modulator would not
balance correctly. Finally I got Garey Barrell's service
disc and noticed that the photograph of the area with the
modulator looked a little different. Garey checked one of
his units for me and sure enough the two leads to the
modulator were interchanged. This had enough effect on the
stray capacitances to prevent getting a good null. In the
meantime I had replaced good parts and wasted a lot of time.
OTOH, I got a liberal education on this Drake rig.

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

5516. Re: TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 19:53:38 UTC
From: w1kilofoxtrot
Topic: 5510 Message: 5516

Thanks to both Richard and Garey. It turned out to be a bad solder joint. With that fixed, I trimmed the pot and cap, and have set the balance to an acceptably low level. It's on the order of 50 uV on the output of the following IF amp.

On to the next issue!

(At last the knobs look good; I cleaned them and repainted the white lines...)

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "w1kilofoxtrot" <w1kf@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 05, 2011 11:09 AM
> Subject: [DrakeRadio] Re: TR-4C carrier balance
>
>
> > Thanks for the idea to look at the two inputs, could
> > eliminate the pot as a possible. There was no discernible
> > effect going 10 turns on the pot, so did not even bother
> > with the cap.
> >
> > Will try looking at that, and see what I find!
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> > 73,
> > Steve
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>
> I should have suggested testing the pot and the build
> out resistors first using an ohm meter. If the pot is bad or
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> substantially, that is your problem. The RF test is useful
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> I am not sure how the diodes are mounted in the TR-4C,
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> the spring catches at the sides. Once off you can check the
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> barn trying to find the reason the modulator would not
> balance correctly. Finally I got Garey Barrell's service
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> modulator looked a little different. Garey checked one of
> his units for me and sure enough the two leads to the
> modulator were interchanged. This had enough effect on the
> stray capacitances to prevent getting a good null. In the
> meantime I had replaced good parts and wasted a lot of time.
> OTOH, I got a liberal education on this Drake rig.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

5517. Re: [DrakeRadio] Re: TR-4C carrier balance

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-05 20:39:40 UTC
From: Richard Knoppow
Topic: 5510 Message: 5517

----- Original Message -----
From: "w1kilofoxtrot" <w1kf@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 05, 2011 12:53 PM
Subject: [DrakeRadio] Re: TR-4C carrier balance

> Thanks to both Richard and Garey. It turned out to be a
> bad solder joint. With that fixed, I trimmed the pot and
> cap, and have set the balance to an acceptably low level.
> It's on the order of 50 uV on the output of the following
> IF amp.
>
> On to the next issue!
>
> (At last the knobs look good; I cleaned them and repainted
> the white lines...)
>
> 73,
> Steve
> W1KF
>

This is what I learned the hard way! Drake used good quality components and had excellent designs. There is not much that can fail in them but, they are getting old so some problems that happen due to long time stess occur. Crystalized solder joints are among them.
It would be interesting to know what sort of soldering equipment was used at the factory. The components are packed in very tightly and many have virtually no leads. This is good from an electrical standpoint but must have made manufacture difficult. Also, Drake seems to have used wire with insulation that melts with a passionate look from warm brown eyes. So I am curious about how they went about assembly.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5518. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 00:39:52 UTC
From: yash@aol.com
Topic: 5505 Message: 5518

Mike
thanks for the one and only explanation of the Sherwood mods from anyone. I figured lots of guys would respond with glowing reports of the mods,but nothing ever showed up. I haven't gotten the R4C yet,should be here on thursday. I will go thru a alignment before starting the mods as you suggested. I have had 2 drake 4 lines over the years,a 4 and a 4B both were very good. I guess I was curious when the C line became aviable and decided I would go for the whole thing. I have the GU-1 filter,will order the mods tomorrow . I have stock filters for the rig so will live with them for a while. I do little cw any longer so It will be ssb with the C mostlt. Thanks for the time to answer my questions ,sure makes the project much more understandable.
dale wt4t

-----Original Message-----
From: w5rkl <w5rkl@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jul 5, 2011 12:17 pm
Subject: [DrakeRadio] Re: install sherwood mods on R4C

Hi Dale,

I responded to your questions yesterday evening but it appears my response didn't make it for what ever reason.

I have a 20K serial number R4C that I have installed the following Mods and Filters

Sherwood Mods:

1. Power supply
2. Filter capacitor board FC-4. This was before Heyseedhamfest.com marketed their R4C capacitor kit.
3. 3rd Mixer (MIX-4)
4. AMP-4 audio amplifier

INRAD Filters:

1. 6Khz AM filter
2. 500Hz and 250Hz CW filters
3. 6Khz GUF-1 first IF filter
4. 1.8Khz SSB filter

Installing the Sherwood modes was rather easy. The only mod that required drilling was the GUF-1 since INRAD's GUF-1 filters are physically smaller than the larger factory Drake filter. A template comes with the GUF-1 filters for drilling the mounting and input/output pin holes.

The Sherwood power supply requires soldering a 1/2" copper strap to the side wall of the R4C chassis. A large wattage soldering pencil is required to do attach the copper strap to

the side wall of the R4C's chassis. The instructions are complete and easy to follow. No guessing as to how the wires are to be connected.

The 3rd mixer requires removing the 3rd mixer tube, a 6EJ7 in my R4C, then making a couple of wiring changes, then connect the mixer. The tube socket remains "empty", no tube installed.

The audio amp, AMP-4 is easy to install. The wiring to the audio transistor on top of the R4C chassis, between the LMO and the power transformer, is removed/disconnected. The AMP-4 PC board is mounted directly behind the front panel, next to the audio gain and phone socket. Instructions are provided with a picture of how the AMP-4 board is installed. Easy to install, about 30 minutes for me.

Depending on which R4C you have (3 or 5 position MODE switch settings) determines where the AM filter is installed. In the 3 position MODE switch R4C the AM filter is installed on the rear panel while the 5 position MODE switch, the AM filter is installed inside the R4C, on the left side of the rear bracket.

The SSB and CW filters install on the rear panel, even with the 5 position MODE switch position R4C.

As for improvements, the Sherwood power supply significantly reduces the heat produced in the R4C, regardless what version R4C you have.

The AMP-4 audio amplifier has a nice frequency response, not a "tinny" sound. The IC chip is an LM-383, the older version of the current TDA-2003 7 watt audio chip. The AMP-4 will produce over 2 watts of audio without distortion.

The 3rd mixer is suppose to eliminate 3rd mixer noise. I can't say I did a "before" and "after" comparison but it works rather well.

Before you install any mods and filters from Sherwood and INRAD, I would ensure the alignment of your R4C is correct (see the R4C manual for alignment instructions). If any tubes are gassy then the alignment, for example, of the S meter will not align properly. Therefore, if you suspect any tubes may be gassy, replace them before you attempt aligning the R4C. You can tell if a tube is gassy by measuring the tube's grid voltage on each side of the grid resistor. If the grid voltage is more positive on the grid side of the resistor than on the opposite side of the grid resistor then the tube is most likely gassy. I checked the alignment of my R4C before installing any mods and filters. I was lucky, the alignment was very close to the factory alignment, I only needed to tweak a few adjustments to bring the R4C into the factory alignment.

I like the way my R4C performs after installing the mods and filters. The 250Hz CW filter does not ring. When using the 500Hz and 250Hz CW filter along with the Notch and Passband controls, elimination or significantly reducing adjacent frequency interference is greatly improved. The 6Khz AM filter does an excellent job on AM. You will see a significant difference in AM operation by installing the AM filter instead of the resistor across the filter terminals.

The draw back is the overall cost. The 4 INRAD filters will cost you approximately $650 plus shipping (current INRAD prices). The Sherwood mods will cost approximately $160 for a total of $818 plus shipping cost. Sherwood charges $20 shipping (see the Sherwood site for full shipping cost details).

Another thing you should consider and that is, if you do not plan on keeping your R4C then spending $818 plus shipping cost for the mods and filters may not be worth it to you. I still have and continually use my R4C and have no plans on selling my modified R4C. I paid $100 for my R4C at the Friedrichshafen, Germany hamfest back several years ago, I was working for General Dynamics in Vaihengen Germany near Stuttgart at the time.

I hope this helps answer you questions about the Sherwood and INRAD filter mods.

73s
Mike
W5RKL

--- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
>
>
>
> Would like to talk with someone who has done the Sherwood mods to the R4C. Curious how involved they are and your reaction to the mods after being done. Is there any of them you would skip over.
> thanks
> dale wt4t
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

5519. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 01:15:14 UTC
From: Kris Merschrod
Topic: 5505 Message: 5519

Good evening Dale,

I was reading the thread with great interest. I had never summed up the Sherwood mods, but now understand your statement that you expected the MODS for the price that I was asking for the stock C-line. Had the twins and pwr suply been with mods it would have been a bargain at $1k.

More interesting was the sparse commentary on the MODS. I wonder just how good the human ear is to note the difference. Perhaps all of those who modified are not on the net, or perhaps the MOD do not glow. The sum is a substantial investment.

It is all great fun no matter what. I switch from my R-4 to the R-4c to the TR-4C to the TR4-CWx and combinations of them. My finding is that the R-4any is a better listening rig than the TR-4any - more control of bandwidth, notch and audio.

73,

Kris KM2KM

> Mike
> thanks for the one and only explanation of the Sherwood mods from anyone.
> I figured lots of guys would respond with glowing reports of the mods,but
> nothing ever showed up. I haven't gotten the R4C yet,should be here on
> thursday. I will go thru a alignment before starting the mods as you
> suggested. I have had 2 drake 4 lines over the years,a 4 and a 4B both
> were very good. I guess I was curious when the C line became aviable and
> decided I would go for the whole thing. I have the GU-1 filter,will order
> the mods tomorrow . I have stock filters for the rig so will live with
> them for a while. I do little cw any longer so It will be ssb with the C
> mostlt. Thanks for the time to answer my questions ,sure makes the
> project much more understandable.
> dale wt4t
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> -----Original Message-----
> From: w5rkl <w5rkl@...>

> To: DrakeRadio@yahoogroups.com
> Sent: Tue, Jul 5, 2011 12:17 pm
> Subject: [DrakeRadio] Re: install sherwood mods on R4C
>
>
>
>
>
> Hi Dale,
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> didn't make it for what ever reason.
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> I have a 20K serial number R4C that I have installed the following Mods
> and Filters
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> than the larger factory Drake filter. A template comes with the GUF-1
> filters for drilling the mounting and input/output pin holes.
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> side wall of the R4C chassis. A large wattage soldering pencil is required
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> wires are to be connected.
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> transformer, is removed/disconnected. The AMP-4 PC board is mounted
> directly behind the front panel, next to the audio gain and phone socket.

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> installed. Easy to install, about 30 minutes for me.
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> switch, the AM filter is installed inside the R4C, on the left side of the
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> example, of the S meter will not align properly. Therefore, if you suspect
> any tubes may be gassy, replace them before you attempt aligning the R4C.
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> very close to the factory alignment, I only needed to tweak a few
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> along with the Notch and Passband controls, elimination or significantly
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> filter does an excellent job on AM. You will see a significant difference
> in AM operation by installing the AM filter instead of the resistor across
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> working for General Dynamics in Vaihengen Germany near Stuttgart at the
> time.
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> I hope this helps answer you questions about the Sherwood and INRAD filter
> mods.
>
> 73s
> Mike
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>
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> --- In DrakeRadio@yahoogroups.com, "yash@..." <yash@...> wrote:
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> [Non-text portions of this message have been removed]
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--
Merschrod
Team Leader
TRI-Project Economic Growth Evaluation
Cel. 829860 4876
Santo Domingo, Rep?blica Dominicana

5520. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 02:05:39 UTC
From: Don Cunningham
Topic: 5505 Message: 5520

Dale,
I don't really mean for this to sound ;negative at all, but one thing that hasn't been said in all this string is that you should use the C line at least some before you begin the mods. It is a fine set in its own right without doing anything but routine maintenance. Sure the Drake engineers had to watch nickles and dimes in its production, but for most casual use (non contest in a "critical" environment), it will soar compared with most rigs. Besides, if you don't, you won't know if you got your money's worth, hi.

Yes, there is enough mixer noise that I MAY put that mod in one day, and I MAY consider the audio board replacement (not necessarily Sherwood) at some point, BUT it is a tube rig, tube rigs get hot, and we do have fans, so maybe not. To each his own, but when I'm using the B line, C line, Johnson Viking II, KWM-2A, and on and on, I'm looking for that mellow sound that I miss in the new rigs I have. When I want to "dig out the last DX weak station", I go to the IC-7700 or FTDX9000. That's just me.

Enjoy those Drakes!!!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5521. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 02:16:12 UTC
From: lee
Topic: 5505 Message: 5521

Hear hear, Don !!!!! Right on. I started to say about the same thing and then dumped my message. It always amazes me why someone not knowing anything about a radio immediately wants to do mods. Just crazy as far as I am concerned. That is like buying a model T FORD and then immediately adding power steering, automatic transmission, satellite radio, and automatic turn signals, and digital dash board. Sure this stuff is better then what Ford put into their car. However, you don’t experience the car as it was doing this sort of stuff. I enjoy using my Drake gear as Drake engineered and built it. I use my new modern radios when I want those newer features. Drake equipment, as is, is wonderful left alone. I don’t want any cobbled up rig in my shack. But then, those are my personal views.

Lee, w0vt

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Enjoy those Drakes!!!!
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[Non-text portions of this message have been removed]

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5522. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 13:58:21 UTC
From: yash@aol.com
Topic: 5505 Message: 5522

-----Original Message-----
From: yash@... <yash@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, Jul 6, 2011 9:46 am
Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C

Lee
I have owned a 4 line and a B-line for over 10 years,just recently selling both. I think that gives me a pretty good sense of what the drake C line should be able to do. If the problem with the C line ,if any, shows up and looks like it could be helped with the proper mod ,will give it a try,if not like they say if it ain't broke, then don't fix it. I was calling for some input about the mods for the C, to see what others had to say about the mods. Not knowing anything about the radio,kind of a untrue statement in this case,but what the hell,should be a fun adventure.
dale wt4t

-----Original Message-----
From: lee <pulsarxp@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, Jul 5, 2011 10:16 pm
Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C

Hear hear, Don !!!!! Right on. I started to say about the same thing and then dumped my message. It always amazes me why someone not knowing anything about a radio immediately wants to do mods. Just crazy as far as I am concerned. That is like buying a model T FORD and then immediately adding power steering, automatic transmission, satellite radio, and automatic turn signals, and digital dash board. Sure this stuff is better then what Ford put into their car. However, you don’t experience the car as it was doing this sort of stuff. I enjoy using my Drake gear as Drake engineered and built it. I use my new modern radios when I want those newer features. Drake equipment, as is, is wonderful left alone. I don’t want any cobbled up rig in my shack. But then, those are my personal views.

Lee, w0vt

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Enjoy those Drakes!!!!
73,
Don, WB5HAK

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5523. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 14:01:31 UTC
From: Kris Merschrod
Topic: 5505 Message: 5523

Gosh Dale, they jumped up and down after all :>)

This is a great reflector, but you can never tell what will come out from
below noise levels.

Kris KM2KM

--
Merschrod
Team Leader
TRI-Project Economic Growth Evaluation
Cel. 829860 4876
Santo Domingo, Rep?blica Dominicana

5524. pairing Drake T-4X with a Kenwood R-5000

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 14:19:35 UTC
From: ae5uu
Topic: 5524 Message: 5524

Has anyone had experience mating a Kenwood R-5000 receiver with a Drake "4 Line" transmitter? How would the interconnection cabling work?

Thanks,

Russell
AE5UU

5525. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 17:02:18 UTC
From: lee
Topic: 5505 Message: 5525

Dale,

You are using good judgment. The C line is one fine radio as stock. Give it a try that way. You will be pleased. As for the mods, there are many more Drake C line radios out there without mods then with them. I think that says something. After using your C line, you can decide if you want to modify it. There is a mod to solid state the audio output as it produces less heat. There are filter mods as well. Yes sometimes old filters will go bad or drift off frequency and it is good to replace them. But, you can go crazy with filters which I find to be crazy unless you are a top 100 contester in the world. For the average ham or even for most over average, the stock filter arrangement is just fine. Some like the “sound of the “B” line better then the “C” line. That is because the crystal filters in the “C” line are sharper and roll off faster. (You can’t have your cake and eat it too). In closing, the “C” line radio is one great radio as is. Why spend a bunch of money on something which is not needed or helpful to most owners. In my estimation, a modified Drake is no longer a Drake. You need to decide for yourself if you indeed need or want these mods once you have a baseline understanding of the radio.

There are two types of guys on this list. There is a following for these mods and they will violently disagree with me. That’s their choice as many others feel as I do about all this. Some of us are not top 100 contesters and want to experience radios as they were built. We don’t want any part of modified radios unless the mods can allow us to continue to use an otherwise unusable radio or the changes are not drastic. Many of us have current production gear besides our Drake or other vintage equipment. We use these pieces to satisfy our “state of the art” desires. I too have a B line as well as some C line equipment. I much prefer my C line equipment. Some on here prefer their B line equipment. For them, it usually comes down to how the radio ‘sounds” or the radio doesn’t need accessory crystal filters. It’s best for you to decide what you like or dislike about a radio and not take someone else’s word for it.

Lee, w0vt

Lee
I have owned a 4 line and a B-line for over 10 years,just recently selling both. I think that gives me a pretty good sense of what the drake C line should be able to do. If the problem with the C line ,if any, shows up and looks like it could be helped with the proper mod ,will give it a try,if not like they say if it ain't broke, then don't fix it. I was calling for some input about the mods for the C, to see what others had to say about the mods. Not knowing anything about the radio,kind of a untrue statement in this case,but what the hell,should be a fun adventure.
dale wt4t

[Non-text portions of this message have been removed]

5526. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 18:36:15 UTC
From: Paul Christensen
Topic: 5505 Message: 5526

Hi Lee,

Of course, there are different degrees of acceptable modification. While I do not hesitate to add a truly "value added" mod, I would not go so far as to deface the outer cosmetics to get there. For example, I would not consider adding extra indicators, switches, controls, etc. God knows I've modified (and some will argue, "mutilated") the insides of my Drake receivers. There are probably enough unmodified R4x receivers that the few that are modified will not affect the preservation of Drake history.

Some Drakes will forever stay pristine. Great. Their owners want to keep them that way. But, there are also users who would like the aptitude and acumen to be able to go in to their Drakes, service them and even change circuitry. They would like to, but don't know how, absent sending it off for the work to be done. But labor costs can quickly undermine the value of having the modifications when it's time to sell the gear.

Given the high demand and selling price of R-4Cs with Sherwood mods, I think some end-users can justify the increased level of performance, reduction of cabinet heating without the need for external cooling, etc. I do think that if most folks could hear, feel, and use my modified R-4B and R-4C receivers, they would think twice about keeping them historically accurate. Not all, but certainly many.

I look at modifying a Drake like I would modify a Corvette. There's no shortage of extremely expensive, vintage Corvettes that have been heavily modified for peak performance. A vintage Corvette owner may add a Monza exhaust system, but would never consider adding a useless ornament to the car body. On the other hand, I look at the Collins S/Line as something more akin to say...a Mercedes sports car where one would probably not modify it. I just acquired an S/Line and folks here can rest assured that not one item will change. To me (and folks like Rob Sherwood), Drakes are destined to be changed by their owners just like some sports cars, boats...the list can go on.

Paul, W9AC

----- Original Message -----
From: lee
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, July 06, 2011 1:02 PM
Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C

Dale,

You are using good judgment. The C line is one fine radio as stock. Give it a try that way. You will be pleased. As for the mods, there are many more Drake C line radios out there without mods then with them. I think that says something. After using your C line, you can decide if you want to modify it. There is a mod to solid state the audio output as it produces less heat. There are filter mods as well. Yes sometimes old filters will go bad or drift off frequency and it is good to replace them. But, you can go crazy with filters which I find to be crazy unless you are a top 100 contester in the world. For the average

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[Non-text portions of this message have been removed]

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5527. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-06 19:15:00 UTC
From: Dennis Weal
Topic: 5505 Message: 5527

Opinions on mods vs. non mods are as varied as the owners. All this back and forth is just a waste of time.

My $6.00 worth (adjusted for inflation)

Denny
w4eal

----- Original Message -----
From: Paul Christensen
Sent: 07/06/11 02:36 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C

Hi Lee, Of course, there are different degrees of acceptable modification. While I do not hesitate to add a truly "value added" mod, I would not go so far as to deface the outer cosmetics to get there. For example, I would not consider adding extra indicators, switches, controls, etc. God knows I've modified (and some will argue, "mutilated") the insides of my Drake receivers. There are probably enough unmodified R4x receivers that the few that are modified will not affect the preservation of Drake history. Some Drakes will forever stay pristine. Great. Their owners want to keep them that way. But, there are also users who would like the aptitude and acumen to be able to go in to their Drakes, service them and even change circuitry. They would like to, but don't know how, absent sending it off for the work to be done. But labor costs can quickly undermine the value of having the modifications when it's time to sell the gear. Given the high demand and selling price of R-4Cs with Sherwood mods, I think some end-users can justify the increased level of performance, reduction of cabinet heating without the need for external cooling, etc. I do think that if most folks could hear, feel, and use my modified R-4B and R-4C receivers, they would think twice about keeping them historically accurate. Not all, but certainly many. I look at modifying a Drake like I would modify a Corvette. There's no shortage of extremely expensive, vintage Corvettes that have been heavily modified for peak performance. A vintage Corvette owner may add a Monza exhaust system, but would never consider adding a useless ornament to the car body. On the other hand, I look at the Collins S/Line as something more akin to say...a Mercedes sports car where one would probably not modify it. I just acquired an S/Line and folks here can rest assured that not one item will change. To me (and folks like Rob Sherwood), Drakes are destined to be changed by their owners just like some sports cars, boats...the list can go on. Paul, W9AC ----- Original Message ----- From: lee To: DrakeRadio@yahoogroups.com Sent: Wednesday, July 06, 2011 1:02 PM Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C Dale, You are using good judgment. The C line is one fine radio as stock. Give it a try that way. You will be pleased. As for the mods, there are many more Drake C line radios out there without mods then with them. I think that says something. After using your C line, you can decide if you want to modify it. There is a mod to solid state the audio output as it produces less heat. There are filter mods as well. Yes sometimes old filters will go bad or drift off frequency and it is good to replace them. But, you can go crazy with filters which I find to be crazy unless you are a top 100 contester in the world. For the average ham or

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[Non-text portions of this message have been removed]

5528. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 04:50:38 UTC
From: Jim Shorney
Topic: 5505 Message: 5528

On Wed, 06 Jul 2011 19:15:00 +0000, Dennis Weal wrote:

>Opinions on mods vs. non mods are as varied as the owners. All this back and forth is just a waste of time.

I've always looked at part of being a ham is being a tinkerer, and part of that is making things better where possible. That includes well thought out and technically sound mods. There was a time when many hams spent hours tuning and tweaking to get the best possible perfomance out of their gear - an art that seems to be lost these days, judging from some of the audio I hear on the air. The notion of when it ceases to be a "Drake" doesn't bother me so much. Who's to know that some of these ideas weren't concieved by Drake's engineers, but abandoned to meet a price point? At what point does it cease to be a Drake? The ham in Eu almost completely rebuilt his TR-7, is it still a TR-7? Does a Fox-Tango 250 Hz CW filter in my Drake make it not a Drake? After all, it could be considered a "mod"... Mike Elliot worked for Heathkit, that implies that the 7-Line is at least a little bit Heath. Does that make it less a Drake? I still love my HeathDrakeFoxKit 7-Line with Japanese PA transitors and RadShack LEDs, and my lightly modded (so far) C-Line. They're still Drakes to me.

Tune 'em. tweak 'em, and use 'em.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5529. Re:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 05:29:16 UTC
From: Mr James Sullivan
Topic: 5529 Message: 5529

There are always people who want the unaltered original collector quality. If you want an up-to-date radio, buy a Kenwood, Yeasu, Icom or a Chinese Wouxon.

[Non-text portions of this message have been removed]

5530. Single AC-4 for Multiple Drakes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 06:20:00 UTC
From: Edward Sylvester
Topic: 5529 Message: 5530

I would like to use a single AC-4 PS on the various Drakes that I have, as I will never run them simultaneously. Was thinking of wiring the AC4 to a terminal strip and wiring individual plugs to the various radios. Might you have a better idea?

Thanks,
Ed NI6S
Los Angeles

[Non-text portions of this message have been removed]

5531. Re: [DrakeRadio] Single AC-4 for Multiple Drakes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 07:01:13 UTC
From: William Houghton
Topic: 5529 Message: 5531

Hi Ed,

I assume you mean that you would have three Cinch-Jones female plugs wired in parallel. I see a couple of problems with this approach.

1) One pair of wires on the cable is in series with the transformer primary and goes to the on-off switch of the radio. Turning on the power with any radio will supply power to all of the radios.

2) Since all of the radios would receive power its possible that the filament winding would not be able to supply enough current for the filaments in all of the radios.

3) Drake opted to set the negative bias for the finals using a pot in the AC-4. I have used one AC-4 to power different radios but had to adjust the transmitter idle current using the bias pot every time I switched radios.

If I wanted to use this approach I think I would build a switch box external to the AC-4. I'd modify the AC-4 to bring out the the BIAS voltage from it's source rather than the wiper of the pot. I'd install the pot and it's series resistors for each radio. I'd use a rotary switch to switch the various voltages and speaker signals to/from each of the cables to the radios.

73,

Bill

From: Edward Sylvester <navydude1962@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, July 6, 2011 11:20:00 PM
Subject: [DrakeRadio] Single AC-4 for Multiple Drakes?

I would like to use a single AC-4 PS on the various Drakes that I have, as I will never run them simultaneously. Was thinking of wiring the AC4 to a terminal strip and wiring individual plugs to the various radios. Might you have a better idea?

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Ed NI6S
Los Angeles

[Non-text portions of this message have been removed]

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5532. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 14:38:16 UTC
From: Garey Barrell
Topic: 5505 Message: 5532

Jim Shorney wrote:
> On Wed, 06 Jul 2011 19:15:00 +0000, Dennis Weal wrote:
>
>> Opinions on mods vs. non mods are as varied as the owners. All this back and forth is just a waste of time.
> I've always looked at part of being a ham is being a tinkerer, and part of that
> is making things better where possible. That includes well thought out and
> technically sound mods. There was a time when many hams spent hours tuning and
> tweaking to get the best possible perfomance out of their gear - an art that
> seems to be lost these days, judging from some of the audio I hear on the air.
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> ham in Eu almost completely rebuilt his TR-7, is it still a TR-7? Does a
> Fox-Tango 250 Hz CW filter in my Drake make it not a Drake? After all, it could
> be considered a "mod"... Mike Elliot worked for Heathkit, that implies that
> the 7-Line is at least a little bit Heath. Does that make it less a Drake? I
> still love my HeathDrakeFoxKit 7-Line with Japanese PA transitors and RadShack
> LEDs, and my lightly modded (so far) C-Line. They're still Drakes to me.
>
> Tune 'em. tweak 'em, and use 'em.
>
I too was a 'modder' back when I had ONE receiver, and wanted it to be the 'best I could (or could not)' make it.

My receiver in 1957 was testament to this idea. I didn't have much (any?) money so 'necessity was the mother ...' and I did what I could with what I had or could scrounge. THE receiver consisted of a BC-454 WW-II surplus unit that I paid $4.95 for brand new in the box. It was very stable mechanically and electrically (ref late 30's technology) and although the IF at 1415 kHz was at least 30 kHz wide, at least when I managed to tune in a station with my sandpapered fingers, it stayed there! One day it occurred to me that if the IF were lower in frequency, it would be more selective. I wasn't sure why, but that was the common knowledge. So my Bendix clock radio had a piece of wire wrapped into its loop antenna with the other end stuck into a hole in the top of the third IF can of the BC-454. Tuning the Bendix to 1415 kHz I ended up with a double conversion receiver with _Passband Tuning_ no less. This probably cut the IF BW in half, but still no great

shakes in the VERY crowded 80M Novice band of the late 50's.

One day I visited a local who had a Heathkit Q-Multiplier. He demonstrated it in action, and I was
smitten!! A few weeks later, after some lawn mowing income, I ordered a Q-Multiplier. The kit was
built, and I began to think about installation. I could get power from the BC-454 power supply, and
so all I had to do was arrange an IF tap in the Bendix! That was accomplished, and after blowing
two or three house fuses I got the Bendix plug in the wall the right way.

This system worked well for a while, until I saw a demo of a BC-453 receiver. This was another
surplus receiver that tuned from 190 to 550 kHz and had an 85 kHz IF. The IF transformers had a
unique feature that allowed you to adjust the bandwidth of the receiver by adjusting the amount of
coupling between the coils in the IF transformers. The 'antenna wire into the last IF can' trick
was employed once again and I had a triple conversion receiver with Q-Multiplier!!

So there can certainly be good reasons to modify a piece of equipment. I used the 1-A, 2-B, R-4,
R-4A, R-4B, R-4C, R-7 and R-8A when they were new, warts and all. I lived through the improvements
incorporated in each incarnation of essentially the same basic design, and enjoyed them all. So for
me, I prefer to use them 'au naturel', each with it's own personality, quirks and irritations. I
see no point in chopping up an R-4C when if I wanted and / or needed a contest class receiver I'd
just buy a K3! However, I'm not a contester and really don't need the superior selectivity and
performance of this or several other current transceivers. My most modern radio (aside from my 'YIG
SDR kits) is a Kenwood TS-940SAT. The '940 is superior to all the Drakes in several ways,
functionally, no tune-up required, instant band change, etc., etc., and is a pleasure to operate.
That said, being on the air with the '940 is about as interesting as using a cell phone. My feeling
is, "IF you can't dip the final, it ain't Ham Radio". Being full of tubes doesn't hurt either!

There are certainly enough 'mint' Drake units out there for the concours collectors with their
polished wafer switch wipers, bright polished IF cans, etc., so we don't really have to be concerned
about preserving 'history'. Bottom line is, it's your radio, you can do whatever you want with it.
You can do as some have, and bury it under the chicken coop for 15 years, then dig it up

and sell it
on eBay as 'mint' If you want to gut it and install a transistor radio like some have done to the
old Philco 'tombstone' and 'cathedral' radios from the 20's and 30's, have at it! MY Drakes are
going to stay just the way they were when they came off the line for as long as I can get parts for
them. :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5533. Re: [DrakeRadio] Re: install sherwood mods on R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-07 15:03:39 UTC
From: Keith Evans
Topic: 5505 Message: 5533

Well said Gary..
Sums it up very well.
73
Keith G3VKW

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Thursday, July 07, 2011 3:38 PM
Subject: Re: [DrakeRadio] Re: install sherwood mods on R4C

Jim Shorney wrote:
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>
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<www.k4oah.com>

[Non-text portions of this message have been removed]

5534. Re: [DrakeRadio] Re:

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-08 01:20:34 UTC
From: Jim Shorney
Topic: 5529 Message: 5534

On Wed, 6 Jul 2011 22:29:16 -0700 (PDT), Mr James Sullivan wrote:

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>you want an up-to-date radio, buy a Kenwood, Yeasu, Icom or a Chinese Wouxon.

There are lots of mods out there for those radios too. Except possibly the Wouxons, they are too new. My Drakes whoop tail on most more "modern" rigs, and hold thier own quite well with the best, thank you.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5535. Re: [DrakeRadio] Single AC-4 for Multiple Drakes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-08 03:03:56 UTC
From: Edward Sylvester
Topic: 5529 Message: 5535

Bill:

Thank you for your response. I don't have the technical know-how and I am in the Navy. Hence I do not have a lot of freetime. I know you're probably busy, too, but if I were to pay you, could you build this for me?? I have SEVEN Drake radios that require the AC-4....

Thanks and 73,
Ed

--- On Thu, 7/7/11, William Houghton <rdrbill@...> wrote:

From: William Houghton <rdrbill@...>
Subject: Re: [DrakeRadio] Single AC-4 for Multiple Drakes?
To: DrakeRadio@yahoogroups.com
Date: Thursday, July 7, 2011, 12:01 AM

Hi Ed,

I assume you mean that you would have three Cinch-Jones female plugs wired in parallel. I see a couple of problems with this approach.

1) One pair of wires on the cable is in series with the transformer primary and goes to the on-off switch of the radio. Turning on the power with any radio will supply power to all of the radios.

2) Since all of the radios would receive power its possible that the filament winding would not be able to supply enough current for the filaments in all of the radios.

3) Drake opted to set the negative bias for the finals using a pot in the AC-4. I have used one AC-4 to power different radios but had to adjust the transmitter idle current using the bias pot every time I switched radios.

If I wanted to use this approach I think I would build a switch box external to the AC-4. I'd modify the AC-4 to bring out the the BIAS voltage from it's source rather than the wiper of the pot. I'd install the pot and it's series resistors for each radio. I'd use a rotary switch to switch the various voltages and speaker signals to/from each of the cables to the radios.

73,

Bill

From: Edward Sylvester <navydude1962@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, July 6, 2011 11:20:00 PM
Subject: [DrakeRadio] Single AC-4 for Multiple Drakes?

I would like to use a single AC-4 PS on the various Drakes that I have, as I will never run them simultaneously. Was thinking of wiring the AC4 to a terminal strip and wiring individual plugs to the various radios. Might you have a better idea?

Thanks,
Ed NI6S
Los Angeles

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5536. Re: [DrakeRadio] Single AC-4 for Multiple Drakes?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-08 05:15:46 UTC
From: Richard Knoppow
Topic: 5529 Message: 5536

----- Original Message -----
From: "Edward Sylvester" <navydude1962@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, July 07, 2011 8:03 PM
Subject: Re: [DrakeRadio] Single AC-4 for Multiple Drakes?

Bill:

Thank you for your response. I don't have the technical know-how and I am in the Navy. Hence I do not have a lot of freetime. I know you're probably busy, too, but if I were to pay you, could you build this for me?? I have SEVEN Drake radios that require the AC-4....

Thanks and 73,
Ed

I think this is one of those ideas that may not prove practical. For one thing each rig is likely to require somewhat different bias voltage. So, even though you could switch the supply from one rig to another you would probably have to set the grid bias each time.
Also, I am a believer in the idea of minimising the number of connectors and switches in a circuit. In this case there would be a lot of wiring wether a patch system or a multiple layer switch was used. I can forsee other problems. You can switch the supply from one rig to another by moving the plug but the problem of setting the bias would still remain. While its expensive to find individual supplies for each rig it may turn out to be cheaper than arranging a patch or switching arrangement capable of handling the voltages and curents involved. Also, there is a safety issue: both the high voltage and medium voltages are high enough to be dangerous so you must make sure that what ever arrangement was used can not expose you to these voltages. An AC interlock would be good. The connectors must be such that there are no male plugs with voltage on them. I think this is an idea that seems attractive but is not practical.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5537. Looking for R4C

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-08 15:47:09 UTC
From: yash@aol.com
Topic: 5537 Message: 5537

I found a nice R4C ,but seller decided to not sell,so Iam still Looking for a Drake R4C receiver only,not interested in the whole C-line.
Will consider all,with or with out filters or any R4C with or without any mods. Will pay well for quality receiver.
can do no fee pay pal or whatever.Please get back off line .....yash@.....
thanks
dale wt4t

[Non-text portions of this message have been removed]

5538. Drake setup for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-10 01:47:14 UTC
From: MIke
Topic: 5538 Message: 5538

Drake TR7 +ps
Drake L7 +ps
Drake MN-2700
Drake RV7
Drake Astatic Desk Mic
MFJ-422 Electronic Keyer
Straight key+Base

Email for prices if interested! Moving very soon and having to condense ham shack!

5539. Re: [DrakeRadio] Drake setup for sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-10 01:57:41 UTC
From: yash@aol.com
Topic: 5538 Message: 5539

Mike
thanks for offering,looking for a C-line
dale wt4t

-----Original Message-----
From: MIke <mvaughanusm81@...>
To: DrakeRadio@yahoogroups.com
Sent: Sat, Jul 9, 2011 9:47 pm
Subject: [DrakeRadio] Drake setup for sale

Drake TR7 +ps
Drake L7 +ps
Drake MN-2700
Drake RV7
Drake Astatic Desk Mic
MFJ-422 Electronic Keyer
Straight key+Base

Email for prices if interested! Moving very soon and having to condense ham shack!

[Non-text portions of this message have been removed]

5540. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-10 19:42:03 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5540

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5541. AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 09:37:45 UTC
From: Victor
Topic: 5541 Message: 5541

Hi all
Can anyone tell me if the 10k bias pot in the AC4 is lin or log? Or, will any 10k pot do?
Vic

5542. Re: [DrakeRadio] AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 13:12:23 UTC
From: Garey Barrell
Topic: 5541 Message: 5542

Vic -

Linear. A Log or Anti-Log pot would crowd the adjustment into the first (or last) third of the
rotation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hi all
> Can anyone tell me if the 10k bias pot in the AC4 is lin or log? Or, will any 10k pot do?
> Vic
>

5543. New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 09:43:49 UTC
From: MarkB
Topic: 5543 Message: 5543

HI to the Group and thank you for letting Me join. I am a new Drake 4-B twins owner, this is my first lot of Drake gear and All I can say is WOW Very nice ,I am just going over them to do a clean up and check the alignment , I have all manuals and Drake service CD ,Good test gear VTVM ,O'scope ,F counter etc .I have found Resistors out of spec in the T-4XB R26,R30 R31 R32 R33 & R36 Can I Use metal filament instead of carbon composite resistors ? As I have these on hand I Hope this is no A DUM Question,

Also the R-4B when I switch the AVC to fast I get A popping sound and slight distortion Is this normal ? Other than that it works and sounds very good and seams to hear as Good as my kenwood TS 830s

Thanks any replies welcome

Mark VK2MTB

5544. Re: [DrakeRadio] AC4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 14:53:00 UTC
From: g4jss@tiscali.co.uk
Topic: 5541 Message: 5544

Hi Gary
Wasn't sure so better to ask. Thanks for very quick response.
73
Vic

5545. Re: [DrakeRadio] New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 15:02:47 UTC
From: M K
Topic: 5543 Message: 5545

I'm not sure if they are the best choice, but you probably mean metal FILM,
not metal FILAMENT resistors.
I suspect this is a case of "spell check strikes again".
There are also carbon film resistors.

On Mon, Jul 11, 2011 at 5:43 AM, MarkB <markandlou74@...> wrote:

> **
>
>
>
> HI to the Group and thank you for letting Me join. I am a new Drake 4-B
> twins owner, this is my first lot of Drake gear and All I can say is
> WOW Very nice ,I am just going over them to do a clean up and check the
> alignment , I have all manuals and Drake service CD ,Good test gear VTVM
> ,O'scope ,F counter etc .I have found Resistors out of spec in the T-4XB
> R26,R30 R31 R32 R33 & R36 Can I Use metal filament instead of carbon
> composite resistors ? As I have these on hand I Hope this is no A DUM
> Question,
>
> Also the R-4B when I switch the AVC to fast I get A popping sound and
> slight distortion Is this normal ? Other than that it works and sounds
> very good and seams to hear as Good as my kenwood TS 830s
>
> Thanks any replies welcome
>
> Mark VK2MTB
>
>
>

[Non-text portions of this message have been removed]

5546. TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 15:10:21 UTC
From: Bob Szejk
Topic: 5546 Message: 5546

Hi, I recently bought a tr7 (early model) with only the high impedance mic input. I'm using a Turner +3 (5K output impedance). The problem is that I can't get the VOX to key the radio. If I switch the radio from PTT to VOX and key the mic, the VOX delay works fine (holds the TR7 keyed for a few seconds). But I can't get the radio to key on it's own using VOX.

Question 2 is: I have a number of mics available (D104 G-stand, Electro voice 719 high impedance ceramic, and a HEIL HM-10). I really wanted to use the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on adapting it?

Thanks in advance for any advice - Bob WA3R

5547. Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 16:21:03 UTC
From: andrew
Topic: 5543 Message: 5547

Is not a dumb question , yes you can use the metal film resistors in place of carbon type , be aware that they are not as tolerent of overload as carbon ones . they are used as fuses in some television circuits . not sure I would use them in any tuned circuits as they are probably slightly inductive . if you can find them the carbon film type may be a better choice .
andrew
kd5pnt

[Non-text portions of this message have been removed]

5548. Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 15:28:25 UTC
From: MarkB
Topic: 5543 Message: 5548

--- In DrakeRadio@yahoogroups.com, M K <ka2mce@...> wrote:
>
> I'm not sure if they are the best choice, but you probably mean metal
FILM,
> not metal FILAMENT resistors.
> I suspect this is a case of "spell check strikes again".
> There are also carbon film resistors.

OK You got me --------- METAL FILM

Thanks Mark VK2MTB

5549. Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 15:40:36 UTC
From: MarkB
Topic: 5543 Message: 5549

--- In DrakeRadio@yahoogroups.com, "andrew" <radiomanl@...> wrote:
>
> Is not a dumb question , yes you can use the metal film resistors in place of carbon type , be aware that they are not as tolerent of overload as carbon ones . they are used as fuses in some television circuits . not sure I would use them in any tuned circuits as they are probably slightly inductive . if you can find them the carbon film type may be a better choice .
> andrew
> kd5pnt
>
> [Non-text portions of this message have been removed]
>

Thanks Andrew I was thinking they might be a bit inductive for the PA ,I Will look for some Carbon Film Resistors

Any clue on the popping sound on the R-4B ?

Thanks Mark VK2MTB

5550. RE: [DrakeRadio] TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 15:57:59 UTC
From: Bob Spooner
Topic: 5546 Message: 5550

Bob,

Are you sure that the mic element is connected when the mic isn't keyed? If VOX only works when you key the mic, it looks like VOX circuit works but no signal is getting to it until you key it.

73,

Bob AD3K

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Szejk
Sent: Monday, July 11, 2011 11:10 AM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR7 questions

Hi, I recently bought a tr7 (early model) with only the high impedance mic input. I'm using a Turner +3 (5K output impedance). The problem is that I can't get the VOX to key the radio. If I switch the radio from PTT to VOX and key the mic, the VOX delay works fine (holds the TR7 keyed for a few seconds). But I can't get the radio to key on it's own using VOX.

Question 2 is: I have a number of mics available (D104 G-stand, Electro voice 719 high impedance ceramic, and a HEIL HM-10). I really wanted to use the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on adapting it?

Thanks in advance for any advice - Bob WA3R

[Non-text portions of this message have been removed]

5551. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 17:39:03 UTC
From: Bob Szejk
Topic: 5546 Message: 5551

OOPS! I was so excited to get back on the air that I never checked. DUH!!! Thanks Bob!

--- In DrakeRadio@yahoogroups.com, "Bob Spooner" <rls19@...> wrote:
>
> Bob,
>
>
>
> Are you sure that the mic element is connected when the mic isn't keyed? If
> VOX only works when you key the mic, it looks like VOX circuit works but no
> signal is getting to it until you key it.
>
>
>
> 73,
>
> Bob AD3K
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Bob Szejk
> Sent: Monday, July 11, 2011 11:10 AM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] TR7 questions
>
>
>
>
>
>
> Hi, I recently bought a tr7 (early model) with only the high impedance mic
> input. I'm using a Turner +3 (5K output impedance). The problem is that I
> can't get the VOX to key the radio. If I switch the radio from PTT to VOX
> and key the mic, the VOX delay works fine (holds the TR7 keyed for a few
> seconds). But I can't get the radio to key on it's own using VOX.
>
> Question 2 is: I have a number of mics available (D104 G-stand, Electro
> voice 719 high impedance ceramic, and a HEIL HM-10). I really wanted to use
> the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on
> adapting it?
>
> Thanks in advance for any advice - Bob WA3R
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

5552. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 17:54:05 UTC
From: Garey Barrell
Topic: 5543 Message: 5552

Mark -

Best choice for Cathode resistors is ceramic composition, Ohmite OX and OY series. The film resistors are a problem not because of 'inductance', which is negligible at these frequencies, but
for peak current carrying capability. These resistors can see very high currents during tune-up
when off-resonance.

The popping AVC may be a result of the receiver's RCVR SENS setting, per Section 6.4.9 of the
manual. Some reduce this level because it makes the receiver 'sound hotter', but needs to be set to
-1.35 VDC with a HIGH impedance meter, VTVM or quality DMM with input impedance of 10M or more.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

MarkB wrote:
>
>
> Thanks Andrew I was thinking they might be a bit inductive for the PA
> ,I Will look for some Carbon Film Resistors
>
> Any clue on the popping sound on the R-4B ?
>
> Thanks Mark VK2MTB
>
>
>

5553. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 19:08:01 UTC
From: Richard Knoppow
Topic: 5543 Message: 5553

----- Original Message -----
From: "andrew" <radiomanl@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 11, 2011 9:21 AM
Subject: [DrakeRadio] Re: New Drake 4-b line Owner

> Is not a dumb question , yes you can use the metal film
> resistors in place of carbon type , be aware that they are
> not as tolerent of overload as carbon ones . they are used
> as fuses in some television circuits . not sure I would
> use them in any tuned circuits as they are probably
> slightly inductive . if you can find them the carbon film
> type may be a better choice .
> andrew
> kd5pnt

I've checked a number of small metal film resistors on
a Boonton RX-Meter up to 250 mhz. For values as high as 40k
the reactance was insignificant at least to 100 mhz. Smaller
values will have even less. I've replaced componsition
resistors in the ring modulator circuit of a 4B with no
problems other than the original resistors were actully OK
(trying to find an elusive problem). I think there are few
applications where metal film resistors can not be used in
place of carbon composition resistors. Carbon comps may take
higher momentary overloads but that's not enountered in most
circuits.
BTW, not all carbon composition resistors change a lot.
In theory they all go up in value over time but I've found
that the amount varies a lot with brand. Ohmite and
Allen-Bradley resistors, both of which have shiny seamless
bodies, seem to be much more stable than the ones in cases
with seams along the sides. I don't know who made those but
all are worth being suspiciousl of. Resistors run near the
limit of their dissipation are likely to be out of spec.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5554. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 19:26:13 UTC
From: M K
Topic: 5543 Message: 5554

Personally, I'm leary of ANY old carbon comp. resistors-seam, or no seam..unless they are REALLY difficult to swap, it may be worth considering doing a pre-emptive strike, and just swap them ALL.
(yes it's a lot of work, but the improved reliability is probably worth it)-anyway odds are at least some of them are way off value(they generally go high).

On Mon, Jul 11, 2011 at 3:08 PM, Richard Knoppow <1oldlens1@...>wrote:

> **
>
>
>
> ----- Original Message -----
> From: "andrew" <radiomanl@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, July 11, 2011 9:21 AM
> Subject: [DrakeRadio] Re: New Drake 4-b line Owner
>
> > Is not a dumb question , yes you can use the metal film
> > resistors in place of carbon type , be aware that they are
> > not as tolerent of overload as carbon ones . they are used
> > as fuses in some television circuits . not sure I would
> > use them in any tuned circuits as they are probably
> > slightly inductive . if you can find them the carbon film
> > type may be a better choice .
> > andrew
> > kd5pnt
>
> I've checked a number of small metal film resistors on
> a Boonton RX-Meter up to 250 mhz. For values as high as 40k
> the reactance was insignificant at least to 100 mhz. Smaller
> values will have even less. I've replaced componsition
> resistors in the ring modulator circuit of a 4B with no
> problems other than the original resistors were actully OK
> (trying to find an elusive problem). I think there are few
> applications where metal film resistors can not be used in
> place of carbon composition resistors. Carbon comps may take
> higher momentary overloads but that's not enountered in most
> circuits.
> BTW, not all carbon composition resistors change a lot.
> In theory they all go up in value over time but I've found
> that the amount varies a lot with brand. Ohmite and
> Allen-Bradley resistors, both of which have shiny seamless
> bodies, seem to be much more stable than the ones in cases

> with seams along the sides. I don't know who made those but
> all are worth being suspiciousl of. Resistors run near the
> limit of their dissipation are likely to be out of spec.
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>

[Non-text portions of this message have been removed]

5555. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:00:22 UTC
From: Richard Knoppow
Topic: 5543 Message: 5555

----- Original Message -----
From: "M K" <ka2mce@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 11, 2011 12:26 PM
Subject: Re: [DrakeRadio] Re: New Drake 4-b line Owner

> Personally, I'm leary of ANY old carbon comp.
> resistors-seam, or no
> seam..unless they are REALLY difficult to swap, it may be
> worth considering
> doing a pre-emptive strike, and just swap them ALL.
> (yes it's a lot of work, but the improved reliability is
> probably worth
> it)-anyway odds are at least some of them are way off
> value(they generally
> go high).
>
This is really not practical in the B line because many
of the components have virtually no leads. In addition, a
lot of circuitry is very sensitive to stray capacitance so
the position of each component is important. I've measured
enough old resistors to have considerably more confidence in
their stability and the brand _does_ make a big difference.
There are some under rated resistors in both TX and RX but
especially the transmitter and they are very likely to be
considerably off value, I think Garey Barrell can list the
most likely, but others should be left alone unless you have
a definite reason to suspect them. Also, most of the
non-electrolitic caps in both TX and RX are of very high
quality and are plastic, not paper. I've yet to find a bad
one. The electrolytics are a differnt story and are
frequently bad. Can electrolytics that are exact
replacements for the originals can be had from Hayseed
Hamfest, these are completely new caps, not re-stuffed old
ones. The AC-4 power supply should be rebuilt using the kit
from The Heathkit Shop, which replaces all the caps, power
resistors, rectifiers, and puts all on a modern circuit
board that will make future replacment much easier. Its a
few hours work to assemble and install it and its not
expensive.
I am a great believer in the rule that "if it aint broke
don't fix it."

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

5556. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:02:14 UTC
From: Garey Barrell
Topic: 5543 Message: 5556

Richard Knoppow wrote:
> ----- Original Message -----
> From: "andrew"<radiomanl@...>
> To:<DrakeRadio@yahoogroups.com>
> Sent: Monday, July 11, 2011 9:21 AM
> Subject: [DrakeRadio] Re: New Drake 4-b line Owner
>
>
>> Is not a dumb question , yes you can use the metal film
>> resistors in place of carbon type , be aware that they are
>> not as tolerent of overload as carbon ones . they are used
>> as fuses in some television circuits . not sure I would
>> use them in any tuned circuits as they are probably
>> slightly inductive . if you can find them the carbon film
>> type may be a better choice .
>> andrew
>> kd5pnt
> I've checked a number of small metal film resistors on
> a Boonton RX-Meter up to 250 mhz. For values as high as 40k
> the reactance was insignificant at least to 100 mhz. Smaller
> values will have even less. I've replaced componsition
> resistors in the ring modulator circuit of a 4B with no
> problems other than the original resistors were actully OK
> (trying to find an elusive problem). I think there are few
> applications where metal film resistors can not be used in
> place of carbon composition resistors. Carbon comps may take
> higher momentary overloads but that's not enountered in most
> circuits.
> BTW, not all carbon composition resistors change a lot.
> In theory they all go up in value over time but I've found
> that the amount varies a lot with brand. Ohmite and
> Allen-Bradley resistors, both of which have shiny seamless
> bodies, seem to be much more stable than the ones in cases
> with seams along the sides. I don't know who made those but
> all are worth being suspiciousl of. Resistors run near the
> limit of their dissipation are likely to be out of spec.
Richard -

The inductance of metal and carbon film resistors is negligible for our purposes, i.e., below 30 Mhz
or so, and even up into the VHF range. There ARE however instances where than 'insignificant'
inductance 'may' be a problem at VHF and up. I have seen problems occur, particularly in VHF
amplifiers, of parasitic oscillations that were 'cured' by replacement with carbon (or

ceramic)
composition resistors.

That aside, carbon or metal film resistors are not a good choice for the Cathode resistors in the
Drake transmitters. Film resistors are fine, quiet, stable resistors, but are quite weak in current
handling capability. That film is THIN!! As you know, higher currents can occur during tune-up or
other off-resonance conditions. I suppose you could consider film resistors as a poor fuse, but I'd
prefer that they just stay as resistors of the correct value! :-) I don't use anything but Ohmite
OX or OY ceramic composition resistors in this application.

By the way, I think Stackpole was the manufacturer of the 'pebbly' bodied resistors.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5557. Re: [DrakeRadio] TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:05:28 UTC
From: Jim Shorney
Topic: 5546 Message: 5557

On Mon, 11 Jul 2011 15:10:21 -0000, Bob Szejk wrote:

> Hi, I recently bought a tr7 (early model) with only the high impedance mic input. I'm using a Turner +3 (5K output impedance). The problem is that I can't get the VOX to key the radio. If I switch the radio from PTT to VOX and key the mic, the VOX delay works fine (holds the TR7 keyed for a few seconds). But I can't get the radio to key on it's own using VOX.

To expand a little on the other Bob's answer .... The +3 preferably should be connected to the high-level input pin on the mic connector, assuming your rig has the added 470K inside the radio. It will work fine on the low level pin, but yout gain adjustment might be a bit more critical and the rig will overdrive more easily. FWIW, my +3B scored high marks on my TR-7, beating out most other mics I tried as the favorite amongst my friends. I've never run VOX with mine, but the RELAY/ELECTRONIC switch in the bottom of the mic can be rigged to open the PTT line so you can run VOX with the radio.

> Question 2 is: I have a number of mics available (D104 G-stand, Electro voice 719 high impedance ceramic, and a HEIL HM-10). I really wanted to use the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on adapting it?

Any of the above should sound very good. The D-104 and the EV should be run on the high level input, and and with an additional 470K in series with the audio line (~1 Meg total load impedance), the D-104 will sound very good. I've also used an EV-729, Turner 254HC, and various other mics. The TR-7 isn't too fussy about what you use with it, the ultimate choice will be based on the characteristics of your voice and your operating style. I use a Telex Echelon ANC aviation headset for contesting.... :)

73

-Jim
NU0C

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5558. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:10:18 UTC
From: M K
Topic: 5543 Message: 5558

that's why I said unless they are difficult to change.
Also, yes brands can matter-some companies use better quality parts than
others.
As far as swapping caps....electrolytics are suspect, paper dielectric caps
are generally lousy, but most other caps will generally be ok.....although
some mica caps can get silver migration issues.
When I'm talking about changing carbon comps, I'm talking in a general
sense....the ones used in typical consumer electronic stuff are generally
worse than commercial stuff, for example.
Another example:Zenith transistor portable radios have less electrolytic cap
failures than some other brands(however, watch out for the ones that have
SOLAR brand caps-they were less reliable).

On Mon, Jul 11, 2011 at 5:00 PM, Richard Knoppow <1oldlens1@...>wrote:

>
> ----- Original Message -----
> From: "M K" <ka2mce@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Monday, July 11, 2011 12:26 PM
> Subject: Re: [DrakeRadio] Re: New Drake 4-b line Owner
>
>
> > Personally, I'm leary of ANY old carbon comp.
> > resistors-seam, or no
> > seam..unless they are REALLY difficult to swap, it may be
> > worth considering
> > doing a pre-emptive strike, and just swap them ALL.
> > (yes it's a lot of work, but the improved reliability is
> > probably worth
> > it)-anyway odds are at least some of them are way off
> > value(they generally
> > go high).
> >
> This is really not practical in the B line because many
> of the components have virtually no leads. In addition, a
> lot of circuitry is very sensitive to stray capacitance so
> the position of each component is important. I've measured
> enough old resistors to have considerably more confidence in
> their stability and the brand _does_ make a big difference.
> There are some under rated resistors in both TX and RX but
> especially the transmitter and they are very likely to be
> considerably off value, I think Garey Barrell can list the
> most likely, but others should be left alone unless you have
> a definite reason to suspect them. Also, most of the

> non-electrolitic caps in both TX and RX are of very high
> quality and are plastic, not paper. I've yet to find a bad
> one. The electrolytics are a differnt story and are
> frequently bad. Can electrolytics that are exact
> replacements for the originals can be had from Hayseed
> Hamfest, these are completely new caps, not re-stuffed old
> ones. The AC-4 power supply should be rebuilt using the kit
> from The Heathkit Shop, which replaces all the caps, power
> resistors, rectifiers, and puts all on a modern circuit
> board that will make future replacment much easier. Its a
> few hours work to assemble and install it and its not
> expensive.
> I am a great believer in the rule that "if it aint broke
> don't fix it."
>
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

[Non-text portions of this message have been removed]

5559. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:12:13 UTC
From: Richard Knoppow
Topic: 5543 Message: 5559

>
> The inductance of metal and carbon film resistors is
> negligible for our purposes, i.e., below 30 Mhz
> or so, and even up into the VHF range. There ARE however
> instances where than 'insignificant'
> inductance 'may' be a problem at VHF and up. I have seen
> problems occur, particularly in VHF
> amplifiers, of parasitic oscillations that were 'cured' by
> replacement with carbon (or ceramic)
> composition resistors.
>
> That aside, carbon or metal film resistors are not a good
> choice for the Cathode resistors in the
> Drake transmitters. Film resistors are fine, quiet,
> stable resistors, but are quite weak in current
> handling capability. That film is THIN!! As you know,
> higher currents can occur during tune-up or
> other off-resonance conditions. I suppose you could
> consider film resistors as a poor fuse, but I'd
> prefer that they just stay as resistors of the correct
> value! :-) I don't use anything but Ohmite
> OX or OY ceramic composition resistors in this
> application.
>
> By the way, I think Stackpole was the manufacturer of the
> 'pebbly' bodied resistors.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
There is a problem with very high value resistors of
enough voltage between the "windings" to cause an internal
arc and open the resisistor, very rare. Overloads vary, at
the resistor factory I wasted part of my youth working for
in the dim, distant, past we found that carbon film
resistors would run at red heat before they would fail.
Composition resistors do seem to be more resistant to very
short pulse type overloads.
The pebbly surface resistors were IRC. That surface was
supposed to dissipate heat better because it had a slightly
larger surface area. I think Stackpole made precision carbon

resistors but am not sure. I don't know who made the seamed resistors but I am also not sure that the couple in my Drake stuff were original, all the others appear to be Ohmite. Drake seems to have used the best quality components, any economising was done in some other way. The more I learn about Drake and about other equipment of the time (like Collins) the more impressed I am with Drake's engineering. The stuff was about half the price of Collins equivalents and for the most part works better.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5560. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:12:53 UTC
From: M K
Topic: 5543 Message: 5560

I don't work with tube output stuff, but I agree that ceramic composite resistors are a better choice, although if you choose properly, a film resistor may be ok too.

On Mon, Jul 11, 2011 at 5:02 PM, Garey Barrell <k4oah@mindspring.com> wrote:

> **
>
>
>
> Richard Knoppow wrote:
> > ----- Original Message -----
> > From: "andrew"<radiomanl@...>
> > To:<DrakeRadio@yahoogroups.com>
> > Sent: Monday, July 11, 2011 9:21 AM
> > Subject: [DrakeRadio] Re: New Drake 4-b line Owner
> >
> >
> >> Is not a dumb question , yes you can use the metal film
> >> resistors in place of carbon type , be aware that they are
> >> not as tolerent of overload as carbon ones . they are used
> >> as fuses in some television circuits . not sure I would
> >> use them in any tuned circuits as they are probably
> >> slightly inductive . if you can find them the carbon film
> >> type may be a better choice .
> >> andrew
> >> kd5pnt
> > I've checked a number of small metal film resistors on
> > a Boonton RX-Meter up to 250 mhz. For values as high as 40k
> > the reactance was insignificant at least to 100 mhz. Smaller
> > values will have even less. I've replaced componsition
> > resistors in the ring modulator circuit of a 4B with no
> > problems other than the original resistors were actully OK
> > (trying to find an elusive problem). I think there are few
> > applications where metal film resistors can not be used in
> > place of carbon composition resistors. Carbon comps may take
> > higher momentary overloads but that's not enountered in most
> > circuits.
> > BTW, not all carbon composition resistors change a lot.
> > In theory they all go up in value over time but I've found
> > that the amount varies a lot with brand. Ohmite and
> > Allen-Bradley resistors, both of which have shiny seamless
> > bodies, seem to be much more stable than the ones in cases
> > with seams along the sides. I don't know who made those but
> > all are worth being suspiciousl of. Resistors run near the

> > limit of their dissipation are likely to be out of spec.
> Richard -
>
> The inductance of metal and carbon film resistors is negligible for our
> purposes, i.e., below 30 Mhz
> or so, and even up into the VHF range. There ARE however instances where
> than 'insignificant'
> inductance 'may' be a problem at VHF and up. I have seen problems occur,
> particularly in VHF
> amplifiers, of parasitic oscillations that were 'cured' by replacement with
> carbon (or ceramic)
> composition resistors.
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> That aside, carbon or metal film resistors are not a good choice for the
> Cathode resistors in the
> Drake transmitters. Film resistors are fine, quiet, stable resistors, but
> are quite weak in current
> handling capability. That film is THIN!! As you know, higher currents can
> occur during tune-up or
> other off-resonance conditions. I suppose you could consider film resistors
> as a poor fuse, but I'd
> prefer that they just stay as resistors of the correct value! :-) I don't
> use anything but Ohmite
> OX or OY ceramic composition resistors in this application.
>
> By the way, I think Stackpole was the manufacturer of the 'pebbly' bodied
> resistors.
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>

[Non-text portions of this message have been removed]

5561. Re: [DrakeRadio] TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 21:19:46 UTC
From: Paul Christensen
Topic: 5546 Message: 5561

>> I really wanted to use the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on adapting it?

> Any of the above should sound very good. The D-104 and the EV should be run on...

Adding to Jim's comments, impedance matching for interstate audio components hasn't been used for the past half-century. If there's no reactive component (e.g., transformer), the general rule is to drive with low-Z at the source and terminate into moderate to high-Z at the destination. The upper Z limit at the destination is only limited by noise and RF susceptibility -- and those issues are managed with high common-mode rejection inputs and often without the need for ferrite.

The only other time impedance matching becomes a concern in audio circuit interfacing is when an unusually long line is driven (e.g., a mile-long copper telco circuit -- the one's that still exist!). Long twisted pair audio lines begin behaving like transmission lines and optimum performance generally occurs when the source and destination Z are equal in relatively low-Z ends.

So, go ahead. You can safely drive your transceivers from a 1-ohm audio source, even if the mic input is a High-Z load.

Paul, W9AC

[Non-text portions of this message have been removed]

5562. Re: [DrakeRadio] Re: New Drake 4-b line Owner

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 22:51:58 UTC
From: Jim Wilhite
Topic: 5543 Message: 5562

You can do a lot of work with little return by changing resistors that are good. Check before you change. Not all are out of the 10% Specification.

And while we are on the subject, be sure your test equipment is appropriate for the job you are doing, and your test leads are good.

Jim/W5JO

--- On Mon, 7/11/11, M K <ka2mce@...> wrote:

> From: M K <ka2mce@gmail.com>
> Subject: f: [DrakeRadio] Re: New Drake 4-b line Owner
> To: DrakeRadio@yahoogroups.com
> Date: Monday, July 11, 2011, 2:26 PM
> Personally, I'm leary of ANY old
> carbon comp. resistors-seam, or no
> seam..unless they are REALLY difficult to swap, it may be
> worth considering
> doing a pre-emptive strike, and just swap them ALL.
> (yes it's a lot of work, but the improved reliability is
> probably worth
> it)-anyway odds are at least some of them are way off
> value(they generally
> go high).
>
>
> On Mon, Jul 11, 2011 at 3:08 PM, Richard Knoppow <1oldlens1@...>wrote:
>
> > **
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: "andrew" <radiomanl@...>
> > > To: <DrakeRadio@yahoogroups.com>
> > > Sent: Monday, July 11, 2011 9:21 AM
> > > Subject: [DrakeRadio] Re: New Drake 4-b line Owner
> > >
> > > > Is not a dumb question , yes you can use the
> > metal film
> > > > resistors in place of carbon type , be aware that
> > they are
> > > > not as tolerent of overload as carbon ones . they
> > are used
> > > > as fuses in some television circuits . not sure I
> > would

> > > use them in any tuned circuits as they are
> probably
> > > slightly inductive . if you can find them the
> carbon film
> > > type may be a better choice .
> > > andrew
> > > kd5pnt
> >
> > I've checked a number of small metal film resistors
> on
> > a Boonton RX-Meter up to 250 mhz. For values as high
> as 40k
> > the reactance was insignificant at least to 100 mhz.
> Smaller
> > values will have even less. I've replaced
> componsition
> > resistors in the ring modulator circuit of a 4B with
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> > problems other than the original resistors were
> actully OK
> > (trying to find an elusive problem). I think there are
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> > applications where metal film resistors can not be
> used in
> > place of carbon composition resistors. Carbon comps
> may take
> > higher momentary overloads but that's not enountered
> in most
> > circuits.
> > BTW, not all carbon composition resistors change a
> lot.
> > In theory they all go up in value over time but I've
> found
> > that the amount varies a lot with brand. Ohmite and
> > Allen-Bradley resistors, both of which have shiny
> seamless
> > bodies, seem to be much more stable than the ones in
> cases
> > with seams along the sides. I don't know who made
> those but
> > all are worth being suspiciousl of. Resistors run near
> the
> > limit of their dissipation are likely to be out of
> spec.
> >
> > --
> > Richard Knoppow
> > Los Angeles
> > WB6KBL
> > dickburk@...

> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   DrakeRadio-fullfeatured@yahoogroups.com
>
>
>

5563. Re: [DrakeRadio] TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 22:57:13 UTC
From: Richard Knoppow
Topic: 5546 Message: 5563

----- Original Message -----
From: "Paul Christensen" <w9ac@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 11, 2011 2:19 PM
Subject: Re: [DrakeRadio] TR7 questions

>>> I really wanted to use the HEIL, but I'm sure the
>>> impedance is too low for the TR7. Any tips on adapting
>>> it?
>
>> Any of the above should sound very good. The D-104 and
>> the EV should be run on...
>
> Adding to Jim's comments, impedance matching for
> interstate audio components hasn't been used for the past
> half-century. If there's no reactive component (e.g.,
> transformer), the general rule is to drive with low-Z at
> the source and terminate into moderate to high-Z at the
> destination. The upper Z limit at the destination is only
> limited by noise and RF susceptibility -- and those issues
> are managed with high common-mode rejection inputs and
> often without the need for ferrite.
>
> The only other time impedance matching becomes a concern
> in audio circuit interfacing is when an unusually long
> line is driven (e.g., a mile-long copper telco circuit --
> the one's that still exist!). Long twisted pair audio
> lines begin behaving like transmission lines and optimum
> performance generally occurs when the source and
> destination Z are equal in relatively low-Z ends.
>
> So, go ahead. You can safely drive your transceivers from
> a 1-ohm audio source, even if the mic input is a High-Z
> load.
>
> Paul, W9AC
>
The main concern is voltage output of the microphone and
voltage gain of the input stage. Crystal and ceramic
microphones have quite high voltage output but have internal
impedances that look like capacitors, they must be operated
into as nearly an infinite impedance as possible if there is
not to be frequency discrimination. Moving coil and ribbon
microphones are inherently very low impedance and usually
require a step up transformer when used to drive a vacuum

tube or certain kinds of solid state amplifiers. Typical moving coil microphones have a voice coil impedance of around 50 ohms and for medium or high impedance will have a built-in transformer. They are sometimes used for low impedance inputs without a transformer at the microphone. Ribbon microphones have _very_ low inherent impedance, an ohm to ten ohms and _always_ have an internal step up transformer. _ALL_ of these microphones work best into an infinite impedance but will work well if the amplifier input impedances is several times the maximum impedance of the microphone. For medium impedance microphones i.e. 200 ohms, an input impedance of around 5K is enough. Generator type microphones should _never_ be operated into a matching load since that will reduce the voltage by half plus may cause frequency response deviations. Microphones are voltage sources, not power sources. Microphones with built in amplifiers or active impedance matching circuits, like condenser and electret types, can have any output impedance desired and can drive any load impedance desired.
I low or medium impedance microphone will work fine when connected to a high impecdance amplifier but its voltage output may not be sufficient without a step up transformer. Such transformers are still made and are available although perhaps not cheap.
Now to cut to the chase, try the microphone. If it has enough output to drive the transmitter sufficiently and sounds OK it doesn't need anything eles. If it doesn't have enough poop to drive the TX try a matching transformer.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5564. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-11 23:51:35 UTC
From: Bob Szejk
Topic: 5546 Message: 5564

Thanks guys for the info. After much experimenting I think the Turner +3 is the way to go. It seems to have the smoothest audio of the aforementioned mics. I have the gain control on the mic @ 10'oclock and the mic gain on the TR7 @ 11'oclock. I'm guessing the the audio "smoothness" can be attributed in part to the +3's compression. I haven't wired up the HEIL yet, but I plan to try that as soon as I get some free time. Thanks again! - Bob WA3R

--- In DrakeRadio@yahoogroups.com, "Bob Szejk" <mach1_69_428scj@...> wrote:
>
> Hi, I recently bought a tr7 (early model) with only the high impedance mic input. I'm using a Turner +3 (5K output impedance). The problem is that I can't get the VOX to key the radio. If I switch the radio from PTT to VOX and key the mic, the VOX delay works fine (holds the TR7 keyed for a few seconds). But I can't get the radio to key on it's own using VOX.
>
> Question 2 is: I have a number of mics available (D104 G-stand, Electro voice 719 high impedance ceramic, and a HEIL HM-10). I really wanted to use the HEIL, but I'm sure the impedance is too low for the TR7. Any tips on adapting it?
>
> Thanks in advance for any advice - Bob WA3R
>

5565. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 01:08:56 UTC
From: Jim Shorney
Topic: 5546 Message: 5565

On Mon, 11 Jul 2011 23:51:35 -0000, Bob Szejk wrote:

>Thanks guys for the info. After much experimenting I think the Turner +3 is the way to go. It seems to have the smoothest audio of the aforementioned mics. I have the gain control on the mic @ 10'oclock and the mic gain on the TR7 @ 11'oclock. I'm guessing the the audio "smoothness" can be attributed in part to the +3's compression.

Sounds pretty close to where I have mine set up. Of course, the gain setting varies from band to band, and I run mine through an SP-75 speech processor as well. The +3 seems to do very well, and I have used it for casual contesting and DXing. I'm generally against preamplified microphones, but I make an exception for the +3 since it gets such good reports. I have another one that I may just try disconnecting the amplifier in some day - which would essentially turn it into a Drake 7075.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5566. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 03:29:10 UTC
From: Bob Szejk
Topic: 5546 Message: 5566

One of the things I did today was run an A/B between the +3 and a super sidekick. The +3 was the hands down winner with a much flatter response. The SSK was more low end oriented - kinda "muddy"

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 11 Jul 2011 23:51:35 -0000, Bob Szejk wrote:
>
> >Thanks guys for the info. After much experimenting I think the Turner +3 is the way to go. It seems to have the smoothest audio of the aforementioned mics. I have the gain control on the mic @ 10'oclock and the mic gain on the TR7 @ 11'oclock. I'm guessing the the audio "smoothness" can be attributed in part to the +3's compression.
> >
> >
> Sounds pretty close to where I have mine set up. Of course, the gain setting
> varies from band to band, and I run mine through an SP-75 speech processor as
> well. The +3 seems to do very well, and I have used it for casual contesting
> and DXing. I'm generally against preamplified microphones, but I make an
> exception for the +3 since it gets such good reports. I have another one that I
> may just try disconnecting the amplifier in some day - which would essentially
> turn it into a Drake 7075.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5567. RE: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 03:32:31 UTC
From: Jim Chaggaris
Topic: 5546 Message: 5567

I have a +3 but never used it with my TR7A. I prefer the 444D but maybe I'll try the +3 just for kicks.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bob Szejk
Sent: Monday, July 11, 2011 10:29 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: TR7 questions

One of the things I did today was run an A/B between the +3 and a super sidekick. The +3 was the hands down winner with a much flatter response. The SSK was more low end oriented - kinda "muddy"

--- In DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com> , "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 11 Jul 2011 23:51:35 -0000, Bob Szejk wrote:
>
> >Thanks guys for the info. After much experimenting I think the Turner +3 is the way to go. It seems to have the smoothest audio of the aforementioned mics. I have the gain control on the mic @ 10'oclock and the mic gain on the TR7 @ 11'oclock. I'm guessing the the audio "smoothness" can be attributed in part to the +3's compression.
>
>

> Sounds pretty close to where I have mine set up. Of course, the gain
setting
> varies from band to band, and I run mine through an SP-75 speech processor
as
> well. The +3 seems to do very well, and I have used it for casual
contesting
> and DXing. I'm generally against preamplified microphones, but I make an
> exception for the +3 since it gets such good reports. I have another one
that I
> may just try disconnecting the amplifier in some day - which would
essentially
> turn it into a Drake 7075.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and
he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

[Non-text portions of this message have been removed]

5568. RE: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 03:50:11 UTC
From: Jim Shorney
Topic: 5546 Message: 5568

On Mon, 11 Jul 2011 22:32:31 -0500, Jim Chaggaris wrote:

>
>I have a +3 but never used it with my TR7A. I prefer the 444D but maybe
>I'll try the +3 just for kicks.

Try it out with some people that are local to you and who know your voice, and will give you honest assessments. What I got was that the 444 varaints have an excellent natural sound that is quite sutable for casual ragchewing, while the +3 and other ceramic/crystal mics are better for DXing and contesting - although all of them sounded quite good.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5569. TR4 For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 13:21:08 UTC
From: tjb813
Topic: 5569 Message: 5569

Time to reduce the collection. I have a very nice good working TR4 for sale. If interested contact me off-line. Thanks

KD8CN
Tim

5570. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 15:11:38 UTC
From: Bob Szejk
Topic: 5546 Message: 5570

Over the years I acquired some type of 444 variant (I think). Any ID decals that might have been on it are long gone. There's an unmarked switch on the bottom that must be electronic/relay switch. Anyway, I tried it on the TR7 and, although it was much louder than the Electrovoice 719, the shure seemed very "muddy" (heavy on the lows). I'll have to tear it apart and see if I can figure out what exactly it is. I imagine there's some ID on the element. Of course, the distance from lips to mic plays a pretty big role in the overall sound as well. I'm generally about 4" to 6" from the mic which allows the room to add to the sound.

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 11 Jul 2011 22:32:31 -0500, Jim Chaggaris wrote:
>
> >
> >I have a +3 but never used it with my TR7A. I prefer the 444D but maybe
> >I'll try the +3 just for kicks.
>
> Try it out with some people that are local to you and who know your voice, and
> will give you honest assessments. What I got was that the 444 varaints have an
> excellent natural sound that is quite sutable for casual ragchewing, while the
> +3 and other ceramic/crystal mics are better for DXing and contesting -
> although all of them sounded quite good.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5571. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 15:16:15 UTC
From: Bob Szejk
Topic: 5546 Message: 5571

I'm also having a problem with my transmit audio feeding back through the speaker. It doesn't matter which mic I use. Any ideas?

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 11 Jul 2011 22:32:31 -0500, Jim Chaggaris wrote:
>
> >
> >I have a +3 but never used it with my TR7A. I prefer the 444D but maybe
> >I'll try the +3 just for kicks.
>
> Try it out with some people that are local to you and who know your voice, and
> will give you honest assessments. What I got was that the 444 varaints have an
> excellent natural sound that is quite sutable for casual ragchewing, while the
> +3 and other ceramic/crystal mics are better for DXing and contesting -
> although all of them sounded quite good.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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>

5572. Looking for light bulb holder

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 14:50:45 UTC
From: kevin
Topic: 5572 Message: 5572

Looking for a light bulb holder for the VFO light on a C series receiver.
Kevin
KD0ILM

5573. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 15:45:52 UTC
From: Richard Knoppow
Topic: 5546 Message: 5573

----- Original Message -----
From: "Bob Szejk" <mach1_69_428scj@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 12, 2011 8:11 AM
Subject: [DrakeRadio] Re: TR7 questions

> Over the years I acquired some type of 444 variant (I
> think). Any ID decals that might have been on it are long
> gone. There's an unmarked switch on the bottom that must
> be electronic/relay switch. Anyway, I tried it on the TR7
> and, although it was much louder than the Electrovoice
> 719, the shure seemed very "muddy" (heavy on the lows).
> I'll have to tear it apart and see if I can figure out
> what exactly it is. I imagine there's some ID on the
> element. Of course, the distance from lips to mic plays a
> pretty big role in the overall sound as well. I'm
> generally about 4" to 6" from the mic which allows the
> room to add to the sound.
>
Something funny here... The published curve for the
Shure 444 shows it to have a very steep rising
characteristic, about 10db peak at about 4khz up from 1khz,
quite high Q and probably gives it a bit of the sound of a
very old fashioned telephone. The low end rolls off very
steeply below about 150hz. If its muddy it might be from the
electronics inside (the version I looked a was not
amplified) or possibly because it is overloading the AGC in
the TR-7. Working distance should make no difference in a
pressure microphone although working it close will further
increase the output level. I can't find a data sheet for the
old Turner mics. The D-104 has a similar but less
exaggerated peak.
Many microphones designed for CB use have built-in
compressors and sometimes rather radical equalization both
of which can destroy naturalness and, if there is enough,
also destroy intelligibility.
In modern sideband rigs we are dealing with a _very_
limited audio frequency range, maybe 2khz, older rigs with
mechanical filters might pass 3khz. Most of the time there
will be another similar filter on the receiving end so what
is being called bass and treble are very relative.
Also note that limited frequency response is helpful
only in noisy systems with limited power capability, where
the noise level is low both frequency and amplitude range
reduction _reduce_ intelligibility. Since transmission over

a noisy channel is common for ham radio the use of filters
to reduce the bandwidth to the frequencies most important to
conveying intelligence in speech is justified and a certain
amount of compression or peak clipping will help in
overcoming noise at the receiver. However, there is
definitely a point of diminishing returns for both.
Every so often I hear someone fooling around with
equalizer settings. Invariably they sound better when the
turn the damn thing off. I also hear signals that are
excessively compressed making them muddy. The test is how
well the speech can be understood in the presence of noise,
not how high it jacks the meters.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5574. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 15:48:17 UTC
From: Richard Knoppow
Topic: 5546 Message: 5574

----- Original Message -----
From: "Bob Szejk" <mach1_69_428scj@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 12, 2011 8:16 AM
Subject: [DrakeRadio] Re: TR7 questions

> I'm also having a problem with my transmit audio feeding
> back through the speaker. It doesn't matter which mic I
> use. Any ideas?
>
Have you gone over the alignment procedures? I don't
know the TR-7 well but in my TR-4 there is an adustment
called driver neutralization for just this effect, perhaps
the TR-7 has a similar adjustment.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5575. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 16:00:00 UTC
From: Bob Szejk
Topic: 5546 Message: 5575

Thanks Richard,

I have no idea what element is in the Shure mic so it's a wild card at this point. I'm not even sure at this point where it came from! It's been on the shelf for years and never saw any use.

As for the alignment, I plan on doing that today or tomorrow. - Bob

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "Bob Szejk" <mach1_69_428scj@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 12, 2011 8:16 AM
> Subject: [DrakeRadio] Re: TR7 questions
>
>
> > I'm also having a problem with my transmit audio feeding
> > back through the speaker. It doesn't matter which mic I
> > use. Any ideas?
> >
> Have you gone over the alignment procedures? I don't
> know the TR-7 well but in my TR-4 there is an adustment
> called driver neutralization for just this effect, perhaps
> the TR-7 has a similar adjustment.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

5576. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 16:06:37 UTC
From: Keith Evans
Topic: 5546 Message: 5576

Hi Bob,
Shure made a variety of Mikes that used essentually the same plastic body as the 444,
I have one here, which is a 600 ohm unit, probably for P.A. use.
Shure on their website, allows you to search for info on all their old mikes, but I have never
been able to identify the Mike insert number, from the number on the label of the insert itself.
If you work it out, please let me know.
On my real 444 I have a small 3 resistor pad, as I found originally the 444 overdrove the TR7.

Good Luck

Keith G3VKW

----- Original Message -----
From: Bob Szejk
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, July 12, 2011 4:11 PM
Subject: [DrakeRadio] Re: TR7 questions

Over the years I acquired some type of 444 variant (I think). Any ID decals that might have been on it are long gone. There's an unmarked switch on the bottom that must be electronic/relay switch. Anyway, I tried it on the TR7 and, although it was much louder than the Electrovoice 719, the shure seemed very "muddy" (heavy on the lows). I'll have to tear it apart and see if I can figure out what exactly it is. I imagine there's some ID on the element. Of course, the distance from lips to mic plays a pretty big role in the overall sound as well. I'm generally about 4" to 6" from the mic which allows the room to add to the sound.

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Mon, 11 Jul 2011 22:32:31 -0500, Jim Chaggaris wrote:
>
> >
> >I have a +3 but never used it with my TR7A. I prefer the 444D but maybe
> >I'll try the +3 just for kicks.
>
> Try it out with some people that are local to you and who know your voice, and
> will give you honest assessments. What I got was that the 444 varaints have an
> excellent natural sound that is quite sutable for casual ragchewing, while the
> +3 and other ceramic/crystal mics are better for DXing and contesting -
> although all of them sounded quite good.
>
> 73
>

> -Jim
>
>
> --
> Ham Radio NU0C
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> http://www.nebraskaghosts.org
>

[Non-text portions of this message have been removed]

5577. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 22:26:55 UTC
From: Jim Shorney
Topic: 5546 Message: 5577

On Tue, 12 Jul 2011 15:16:15 -0000, Bob Szejk wrote:

>I'm also having a problem with my transmit audio feeding back through the speaker. It doesn't matter which mic I use. Any ideas?

http://www.alg.myzen.co.uk/radio/tr7/mods.htm

Mod #1.

Also, *highly* recommended is #18. Other mods there are worthwhile too, depending on what you want. #7 will not work if your rig has the "standard" Drake-provided general coverage transmit mod, you need my "better allband transmit mod" or GW4ALG's #15 (which mine is based upon, but enables the two missing ranges).

You will want to run the gain so the ALC LED *just* flickers occasionally on voice peaks. That is your overdrive indicator.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5578. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 01:27:56 UTC
From: Jim Shorney
Topic: 5546 Message: 5578

On Tue, 12 Jul 2011 15:11:38 -0000, Bob Szejk wrote:

>
>
>Over the years I acquired some type of 444 variant (I think). Any ID decals that might have been on it are long gone. There's an unmarked switch on the bottom that must be electronic/relay switch. Anyway, I tried it on the TR7 and, although it was much louder than the Electrovoice 719, the shure seemed very "muddy" (heavy on the lows).

The switch on the bottom could be PTT/VOX swiitch or a high/low impedance switch, depending on the variant. I don't know how many transistorized 444 variants were sold into the consumer market, but I have never seen any. The only ones I have seen are commercial variants designed for specific commercial radios that require a preamped mic. I have the classic 444 (high impedance) and 444D (dual impedance), as well as a Johnson commercial variant with the split PTT bar facilitating a "monitor" switch. They always garnered good reports, never "muddy", but have been characterized as more "mellow" and "natural sounding" than the D-104 and other ceramic/crystal mics. Of couses, as you mention, the "proximity effect" will alter the low-end response of almost any dynamic mic (expect for the EV RE-20 broadcast mic). In all cases I've run the 444s in high impedance mode (where selectable) and on thi high level input pin when used on the TR-7.

73

-Jim
.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5579. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 01:33:59 UTC
From: Jim Shorney
Topic: 5546 Message: 5579

On Tue, 12 Jul 2011 08:45:52 -0700, Richard Knoppow wrote:

>Working distance should make no difference in a
>pressure microphone although working it close will further
>increase the output level.

Richard, are you forgetting proximity effect? :)

http://en.wikipedia.org/wiki/Proximity_effect_%28audio%29

I can't find a data sheet for the
>old Turner mics.

I've got some data on the Turner mics, if interested. Cut sheets for the more common ones are floating around on the internet.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5580. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 01:39:44 UTC
From: Jim Shorney
Topic: 5546 Message: 5580

On Tue, 12 Jul 2011 17:06:37 +0100, Keith Evans wrote:

>On my real 444 I have a small 3 resistor pad, as I found originally the 444 overdrove the TR7.

Did you run it on the high level or low level input pin?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5581. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 02:19:40 UTC
From: Richard Knoppow
Topic: 5546 Message: 5581

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 12, 2011 6:33 PM
Subject: Re: [DrakeRadio] Re: TR7 questions

> On Tue, 12 Jul 2011 08:45:52 -0700, Richard Knoppow wrote:
>
>>Working distance should make no difference in a
>>pressure microphone although working it close will further
>>increase the output level.
>
> Richard, are you forgetting proximity effect? :)
>
> http://en.wikipedia.org/wiki/Proximity_effect_%28audio%29
>
I don't think this is a directional microphone. The
explanation given here is _almost_ right, perhaps it is
completely right but I did not read it carefully.
Proximity effect is caused by the curvature of the
wavefront close to a source. The effect has an analogous one
in RF were the pattern of an antenna is different in the
"near field" and for the same reason. Pressure microphones
are not responsive to proximity effect because they measure
the instantaneous pressure in a wave front against a fixed
reference, that is, the pressure in the case. While
practical pressure microphones have an air leak to equalize
the pressure over long periods, mainly the variation from
atmospheric pressure, the pressure inside the case, effectly
on one side of the diaphragm, is fixed. They are technically
known as zero order gradient microphones. In a directional
microphone of figure eight or cardioide pattern the driving
force on the diaphragm is due to the difference in pressure
in two different parts of the same wave. The diaphragm is
arranged to sample the pressure at two points closely
separated. When a single set of sampling ports is used the
system is called a first order differential or gradient
microphone (both terms are found in the literature). Now, as
it turns out the difference in pressure at two points in a
wave depend on whether the wave is curved or plane. At
considerable distance from a source the wave can be
condidered to be a plane wave but, when closer than perhaps
a wavelength, the wave is curved enough so that the inverse
square law begins to produce a differece in the pressure in
the two parts of the wave. As a result the closer one is the

greater the difference so there is a rise in the driving force which is proportional to frequency, or, rather wavelength.
This difference does not affect pressure microphones but causes a rise in the low frequencies of conventional directional microphones. This effect is put to practical use in noise-cancelling microphones which are differential types intended to be used very close to the source. While differential microphones made for general use are designed to have flat responce at a distance the noise cancelling microphone is designed to be flat at some very close distance, perhaps half an inch. This results in a very great reduction of low and mid-frequency responce for distant sounds.
Alpha M Wiggins, a designer working for Electro-Voice came up with a scheme to make the frequency responce of directional microphones essentially independent of distance and also make the driving force constant wiht frequency. E-V called this Variable D. The D is the distance or path length from front to back of the diaphragm. In conventional directional microphones this is constant. In the Variable D microphone a filter is used behind the diaphragm to separate entrance ports at various distances. In the first mic, the model 666, this was in the form of three lumped constant filters. Each filter has an entrance port at a distance from the front of the diaphragm and is connected to the back of the diaphragm. In the 666 the range of frequencies was devided into three parts with three ports. In later microphones like the RE-15 and RE-20, the filter is a continuous transmission line with essentially an infinitely divided series of ports of continuously varying distance. Since the effective distance increases with wavelength so as to produce a constant driving force, the larger percentage of distance in the waveform is less sensitive to the variation due to distance and the proximity effect is substantially reduced (but its still there just a little).
There is another benifit of this system: since the driving force in a differential microphone varies with the frequency something must be done to equalize the frequency responce. In the case of conventional microphones using "dyanimic" elements (moving coil or ribbon) the output is proportional to the velocity of movement of the conductor in the magnetic field. In these microphones the output can be equalized by placing the primary resonance below the band of frequencies of interest. That way the motion of the diaphragm will be constant velocity when driven by the decreasing force of the wave. This works but can make the microphone quite sensitive to mechanical vibration and wind noise. Since the EV system produces a constant force the diaphragm can be resistance controlled as it is in a

non-directional microphone and still have flat frequency responce. It has the virtue of having substantially less sensitivity to mechanical vibration and wind noise. There is more to the story but I think I've gone far enough already. The point is that if the microphones under discussion are non-directional they do not have proximity effect, if they are they do. I now don't remember which mic I found the data sheet for, probably Shure because they have data sheets for practially everything they ever made on line but I think this was a pressure mic (maybe not) and I have no idea of what the other was.
BTW, Electro-Voice blew everyone else out of the water when they began making the 655 and 666 microphones. They had flat responce, high output, light weight, were relatively low cost, and were indestructable. Many broadcast stations, both TV and radio got rid of everything else. Recording studios were more likely to use the newer condenser microphones becoming available then but even there the EV mics were good sounding enough to be frequently used. They killed RCA and Altec.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5582. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 02:45:36 UTC
From: Jim Shorney
Topic: 5546 Message: 5582

On Tue, 12 Jul 2011 19:19:40 -0700, Richard Knoppow wrote:

>BTW, Electro-Voice blew everyone else out of the water
>when they began making the 655 and 666 microphones. They had
>flat responce, high output, light weight, were relatively
>low cost, and were indestructable. Many broadcast stations,
>both TV and radio got rid of everything else. Recording
>studios were more likely to use the newer condenser
>microphones becoming available then but even there the EV
>mics were good sounding enough to be frequently used. They
>killed RCA and Altec.

Preaching to the chior, Richard. :) I work in the factory service center, a few feet away from the guy who still actually fixes RE-20s. (Most of the other mics are offshore manufacture now, and it's far cheaper just to throw them away and send the customer a new one). Only the high end broadcast mics (RE-20, RE-27, some of the condensers, etc.) are still manufactured at the facility I am in. I see the bones of the gutted RE-20 elements that he replaces almost every day, quite an interesting design.

As for the rest, I don't quite buy that the 444 series is completely omnidirectional in nature, but I;ve never actually experimented with possible proximity effect. Generally, I prefer to close-talk a microphone for signal-to-noise ratio reasons (think about the CBer in his armchair with the "lollipop" on the table cranked up, and you can hear the wife, the kids in the next room, the TV across the street, and the pit bulls fighting down on the corner).

73

-Jim

73

-Jim

7

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5583. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 05:34:59 UTC
From: Richard Knoppow
Topic: 5546 Message: 5583

>
> Preaching to the chior, Richard. :) I work in the factory
> service center, a few
> feet away from the guy who still actually fixes RE-20s.
> (Most of the other mics
> are offshore manufacture now, and it's far cheaper just to
> throw them away and
> send the customer a new one). Only the high end broadcast
> mics (RE-20, RE-27,
> some of the condensers, etc.) are still manufactured at
> the facility I am in. I
> see the bones of the gutted RE-20 elements that he
> replaces almost every day,
> quite an interesting design.
>
> As for the rest, I don't quite buy that the 444 series is
> completely
> omnidirectional in nature, but I;ve never actually
> experimented with possible
> proximity effect. Generally, I prefer to close-talk a
> microphone for
> signal-to-noise ratio reasons (think about the CBer in his
> armchair with the
> "lollipop" on the table cranked up, and you can hear the
> wife, the kids in the
> next room, the TV across the street, and the pit bulls
> fighting down on the
> corner).
>
> 73
>
> -Jim

I used to sell the stuff, met Lou Burroughs a few times
but never saw him pound nails with a microphone:-)
The Shure 444 is a controlled reluctance
non-directional mic. All non-directional microphones are
actually directional above some frequency. The frequency and
degree of directionality is due to diffraction which it turn
depend on the size and shape of the case, the large it is
the lower the frequency at which the mic begins to be
somewhat directional. Given a fairly symmetrical shape the
pattern will approach a "super-cardioid" at some frequency.
Above that it will begin to develop lobes but for ordinary
size microphones that doesn't happen in the band they are

sensitive to. For a fairly large mic, say an Electro-Voice 6d5 (the old chrome one) the mic will begin to get directional around 1khz and at around 4khz will be almost uni-directional. The 635 data sheet illustrates this well. In addition to becoming directional the diffraction causes an effective increase in pressure at the diaphragm causing a rise in the frequency response up to the point where the effective diffraction diameter becomes a wavelength, at which there will be cancellation (the path length is half a wavelength). As the frequency continues to increase the response will have a sineX/X characteristic. Again, the high frequency limit of most microphones is too low to permit this. It can be demonstrated using a laboratory condenser mic with a large flat, round, baffle attached to it.
Electro-Voice began making truly high fidelity moving coil microphones around 1948 with the models 648 and 650. These were odd shaped mics (the 650 truly looks like a hammer) with high output (-48 for the 650) and response of +,- 2.5 db from 40 to beyond 15khz. They were quite flat and very smooth but had the usual directional properties at high frequencies. They were among the first microphones to employ the new Electro-Voice diaphragm material called by them Acoustaloy. I think this was mostly Mylar but am not sure. Other microphones used spun aluminum or cloth re-enforced Bakelite. The former was delicate and hard to make, the latter rugged by was too massive to have good high frequency response. The new Electro-Voice material allowed both ruggedness and very good frequency response. It as also easy to make in production so reject diaphragms were rare, additionally all the mics sounded exactly the same.
In 1953 Howard Souther of EV designed a new microphone designed for TV. This was the 665 a tubular shaped mic with outstanding frequency response. By using a diffuser in front of the diaphragm Souther both extended the high end and caused the pattern to widen out so that the microphone was much closer to being truly non-directional than most others. This mic had an accessory wind and blast screen which soon became integrated. The next mic was the 655C which was similar but had the response extended to beyond 20khz, an unheard of response for a moving coil mic. I mentioned before the model 666 designed by Alpha M. Wiggins, also the designer of the famous Circlotron amplifier. I could write more about the impact that these mics had on the industry. In fact, the other US manufacturers had pretty much sat on their hands with the exception of Altec-Lansing with the M-11 condenser microphone system. It was excellent but double the price of the 655. RCA also came out with a hand holdable mic for TV use called the BK-4, this was a pressure ribbon mic with quite good response but it weighed nearly two pounds and cost about $450, it was also somewhat

delicate. I never saw one used outside of NBC.
Conrolled reluctance microphones are a version of the
old magnetic mic. Cheaper to make than a moving coil mic and
far more rugged than a crystal mic. Shure used the same
system in its famous stereo phonograph pickups. It can work
by either moving a vane in a magnetic field usually with the
pick up coil wound around the magnet, or by moving a small
magnet in a pole structure again with the coil wound around
it.
I promise I won't get this OT again (at least not so
verbosely OT).

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5584. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-13 15:43:17 UTC
From: Bob Szejk
Topic: 5546 Message: 5584

Some manuals/Spec sheets for older mics:

http://www.cbtricks.com/mic_manuals/index.htm

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Tue, 12 Jul 2011 08:45:52 -0700, Richard Knoppow wrote:
>
> >Working distance should make no difference in a
> >pressure microphone although working it close will further
> >increase the output level.
>
> Richard, are you forgetting proximity effect? :)
>
> http://en.wikipedia.org/wiki/Proximity_effect_%28audio%29
>
>
> I can't find a data sheet for the
> >old Turner mics.
>
> I've got some data on the Turner mics, if interested. Cut sheets for the more
> common ones are floating around on the internet.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5585. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-14 03:55:30 UTC
From: Jim Shorney
Topic: 5546 Message: 5585

On Tue, 12 Jul 2011 22:34:59 -0700, Richard Knoppow wrote:

>I promise I won't get this OT again (at least not so
>verbosely OT).

Richard, you've really got me curious now. I've read many of your posts, on a great many subjects. How is it that you came to know so much? Not being sarcastic, I've come to look forward to your comments on any given subject. :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5586. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-14 06:11:39 UTC
From: Richard Knoppow
Topic: 5546 Message: 5586

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, July 13, 2011 8:55 PM
Subject: Re: [DrakeRadio] Re: TR7 questions

> On Tue, 12 Jul 2011 22:34:59 -0700, Richard Knoppow wrote:
>
>>I promise I won't get this OT again (at least not so
>>verbosely OT).
>
>
> Richard, you've really got me curious now. I've read many
> of your posts, on a
> great many subjects. How is it that you came to know so
> much? Not being
> sarcastic, I've come to look forward to your comments on
> any given subject. :)
>
> 73
>
> -Jim

Mostly just curiosity. I read a lot. I started out to
be a physicist but found my math was not up to it.
Nonetheless, I am fascinated by mathematics and try to
understand it up to my limit. I've always been interested in
the sciences, I don't remember ever not being so. Its
sometimes frustrating. Other interests beside electronics,
which has been my vocation, were photography, theater, and
sound recording. I guess the latter goes with electronics.
Also music. I don't play an instrument, another frustration.
I had piano lessons when I was perhaps seven but they
stopped just about when I got serious about it. I learned to
play with both hands and read music. All gone now although I
suspect I could get it back.
I work in television in an engineering capacity for Fox
Television. Our network headquarters are here. While the
network does not operate a great many hours we also
originate at least a dozen cable channels and insert
commercials in others. Broadcasting used to have some
glamour in it, all gone now and I can't wait until I am in
financial condition to retire. Been eligible for several
years and at seventy I am bored stiff with it.
The Elector-Voice variable-D system is a special thing

for me because my serious study of acoustics began when I realized I didn't understand it. Olson's book was of limited help. I think I pieced together the answer from several sources.
I also don't remember where I first saw an explanation of what "near field" really was, it may have been in some treatise on antennas. The idea that the curved wave front and the inverse square law was the cause was a sort of epiphany, it all became clear. Now, I am not so sure that the same is true for electro-magnetic waves in the vicinity of an antenna. Acoustic waves are true compressional i.e. longitudinal waves but electro-magnetic waves and light waves are considered to be transverse. The relationship of the electric field to the magnetic field becomes very complex in a wave with a curved wave-front. This is why antenna patterns and intensities must be measured at several wavelengths for the measurements to be meaningful for the distant field. The detailed math is beyond me. If you are interested in this stuff John D. Kraus's old book on Antennas is a good one. He at least makes an attempt to explain things on an elementary basis before becoming precise. BTW he is the inventor of the once famous 8JK antenna. I just discovered that there is a recent revised edition of this but its about $150, too rich for my blood, I'll stick with the old one which I bought new a million years ago.
BTW, I worked for Hewlett-Packard for about ten years beginning in the mid-1960. I probably would still be there but my mom got very sick and later I decided to do other things. I was mostly working on microwave instrumentation. I thought I remembered a lot but don't really.
Oh, well I am just rambling now. Time to get some sleep.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5587. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 01:50:40 UTC
From: Jim Shorney
Topic: 5546 Message: 5587

On Wed, 13 Jul 2011 23:11:39 -0700, Richard Knoppow wrote:

>Oh, well I am just rambling now. Time to get some

Thanks for the Ramble, Richard. Very interesting. You're a bit more
well-travelled than I am, it would seem. Between you and Garey, I should just
keep quiet... :)

Seriously, a fellow I work with compared me to Cliff Clavin once. I wonder what
he would think if I told him that there is someone out there who makes me look
like a piker most of the time.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5588. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 04:03:10 UTC
From: Richard Knoppow
Topic: 5546 Message: 5588

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, July 14, 2011 6:50 PM
Subject: Re: [DrakeRadio] Re: TR7 questions

> On Wed, 13 Jul 2011 23:11:39 -0700, Richard Knoppow wrote:
>
>>Oh, well I am just rambling now. Time to get some
>
>
> Thanks for the Ramble, Richard. Very interesting. You're a
> bit more
> well-travelled than I am, it would seem. Between you and
> Garey, I should just
> keep quiet... :)
>
> Seriously, a fellow I work with compared me to Cliff
> Clavin once. I wonder what
> he would think if I told him that there is someone out
> there who makes me look
> like a piker most of the time.
>
> 73
>
> -Jim
>
I am not sure I am so well travelled. When I was a kid
my family travelled around quite a bit so I've been in many
states for a short time. Lived in Miami Beach for most of a
year, the summer weather was enough to discourage my family
from settling there. I've been to England a couple of times
and had one of those two week tours of Europe. Never do that
again, you see a lot of stuff briefly but also miss some
really important things. Its also very tough if you get sick
travelling especially in a foreign country.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5589. Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 11:35:40 UTC
From: Ralph
Topic: 5589 Message: 5589

Just had the good fortune to reacquire a Drake R4B -- beloved receiver used in the 1970s for shortwave tropical band DXing. Will be refurbishing this gem, a labor of love.

Couple of questions for the board:

1. Anyone know a source for the outboard xtals you plug into the back of the rig, to add fqy ranges. I need an xtal for the 60 meter band, 4.5-5.0 mHz, meaning it would be an xtal for 15.6 mHz (the formula is to take the lowest fqy of the desired band and add 11.1 mHz to get the xtal's actual fqy).

May need other ranges, too, not sure yet.

I've seen these randomly show up on eBay from time to time, but does anybody know a direct source I can avail of?

2. I used to also have a crystal slot 'extender' -- a box with 3 or 4 xtal sockets which I could plug into one of the xtal sockets in the back of the R4B. This would allow me to increase the number of additional xtals being used. Need this to have complete coverage of the bands I want . . . anyone have any thoughts re where I can pick up one of these?

Cheers,

Ralph

5590. Re: [DrakeRadio] Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 13:22:33 UTC
From: Jim Wilhite
Topic: 5589 Message: 5590

Ralph,

You will find either of these people can satisfy your crystal requirements. Both have their roots in ham radio.

http://www.icmfg.com/

http://www.jancrystals.com/

Both have been around for many years and provide a quality product. I have purchased from both and have been very satisfied with the products. Both will have the technical specifications for the crystals you need so you should be able to tell them what you want and they will calculate the frequency.

Have fun with that little receiver. It is a great piece of equipment.

73

Jim/W5JO

From: Ralph <ralphperry@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, July 15, 2011 6:35:40 AM
Subject: [DrakeRadio] Source for Xtals for R4B?

Just had the good fortune to reacquire a Drake R4B -- beloved receiver used in the 1970s for shortwave tropical band DXing. Will be refurbishing this gem, a labor of love.

Couple of questions for the board:

1. Anyone know a source for the outboard xtals you plug into the back of the rig, to add fqy ranges. I need an xtal for the 60 meter band, 4.5-5.0 mHz, meaning it would be an xtal for 15.6 mHz (the formula is to take the lowest fqy of the desired band and add 11.1 mHz to get the xtal's actual fqy).

May need other ranges, too, not sure yet.

I've seen these randomly show up on eBay from time to time, but does anybody know a direct source I can avail of?

2. I used to also have a crystal slot 'extender' -- a box with 3 or 4 xtal sockets which I could plug into one of the xtal sockets in the back of the R4B. This would allow me to increase the number of additional xtals being used. Need this to have complete coverage of the bands I want . . . anyone have any thoughts re where I can pick up one of these?

Cheers,

Ralph

[Non-text portions of this message have been removed]

5591. Re: Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 15:59:53 UTC
From: Ralph
Topic: 5589 Message: 5591

Thanks for that assistance, Jim!

Now, if anybody knows the whereabouts of one of those xtal socket number extenders, I'll be totally all set! I suppose I could also build one, but would rather buy something professionally done. All it does is turn one socket into multiple sockets (think I had a 4-for-1 extender before).

--- In DrakeRadio@yahoogroups.com, Jim Wilhite <w5jpw@...> wrote:
>
> Ralph,
>
> You will findÂ either of these people can satisfy your crystal requirements.Â
> Both have their roots in ham radio.
>
> http://www.icmfg.com/
>
> http://www.jancrystals.com/
>
> Both have been around for many years and provide a quality product.Â I have
> purchased from both and have been very satisfied with the products.Â Both will
> have the technical specifications for the crystals you need so you should be
> able to tell them what you want and they will calculate the frequency.
>
> Have fun with that little receiver.Â It is a great piece of equipment.
>
> 73
>
> Jim/W5JO
>
>
>
>
> _____
> From: Ralph <ralphperry@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, July 15, 2011 6:35:40 AM
> Subject: [DrakeRadio] Source for Xtals for R4B?
>
> Â
> Just had the good fortune to reacquire a Drake R4B -- beloved receiver used in
> the 1970s for shortwave tropical band DXing. Will be refurbishing this gem, a
> labor of love.
>
> Couple of questions for the board:
>

> 1. Anyone know a source for the outboard xtals you plug into the back of the
> rig, to add fqy ranges. I need an xtal for the 60 meter band, 4.5-5.0 mHz,
> meaning it would be an xtal for 15.6 mHz (the formula is to take the lowest fqy
> of the desired band and add 11.1 mHz to get the xtal's actual fqy).
>
> May need other ranges, too, not sure yet.
>
> I've seen these randomly show up on eBay from time to time, but does anybody
> know a direct source I can avail of?
>
> 2. I used to also have a crystal slot 'extender' -- a box with 3 or 4 xtal
> sockets which I could plug into one of the xtal sockets in the back of the R4B.
> This would allow me to increase the number of additional xtals being used. Need
> this to have complete coverage of the bands I want . . . anyone have any
> thoughts re where I can pick up one of these?
>
> Cheers,
>
> Ralph
>
>
>
>
> [Non-text portions of this message have been removed]
>

5592. Re: [DrakeRadio] Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 17:01:16 UTC
From: Don Cunningham
Topic: 5589 Message: 5592

Ralph,
It is okay to SWL around the 5 meg frequencies (old tropical band), BUT the 4 Line Drake isn't a good candidate for 60m usage (ie, transmitting at those frequencies). Search the archives where you will find more info and Garey will clarify more when he gets online later.
73, and enjoy those Drakes!
Don, WB5HAK

[Non-text portions of this message have been removed]

5594. FS: 160m, 80m, 40m crystals $5.00 each

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 18:22:11 UTC
From: Bry Carling
Topic: 5594 Message: 5594

FOR SALE: Amateur Band hc6/u crystals for sale
QUANTITY 42 as follows:

1800 kHz

1801 kHz (QTY 2)

1835 kHz

1843 kHz

1848.8 kHz

1942 kHz (QTY 4)

3742 kHz (QTY 8)

7000 kHz (QTY 5)

7005 kHz

7050 kHz

7072.2 kHz (QTY 2)

7094.4 kHz (QTY 3)

7095 kHz (QTY 5)

7150 kHz (QTY 2)

7155.5 kHz

7163 kHz

7180 kHz

7184 kHz

7189 kHz

These are each available for $5.00 per crystal, plus shipping.
(check or money order)

Or buy all 42 of these crystals for $125.00 plus shipping.

73 - Brian Carling, AF4K

[Non-text portions of this message have been removed]

5595. Re: [DrakeRadio] Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 18:52:10 UTC
From: Garey Barrell
Topic: 5589 Message: 5595

Ralph -

The R-4B isn't a particularly good choice in the 4.5 to 5.5 MHz range. It will work, but due to the
2nd Mixer LO being at 5.595 MHz, the PTO tuning from 4.995 to 5.455, and the IFs at 455 and 50
kHz. As you can see, there are a LOT of potential spurious responses. Transmitting is a definite
no-no, but the receiver is ok as long as you realize there are going to be 'extra' signals in that
range.

International Crystal Mfr <www.icmfg.com> is an excellent source of reliable crystals. Ham owned,
with data on file for anything Drake ever made. Just tell them what frequency you want to cover and
what unit it's for and it shows up! Most important, they are ON FREQUENCY, minimizing Band-to-Band
calibration adjustments.

I don't know of the crystal 'multiplier' you're referring to. The old Johnson Viking II transmitter
had a ten position socket and associated switch.. :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Ralph wrote:
> Just had the good fortune to reacquire a Drake R4B -- beloved receiver used in the 1970s for shortwave tropical band DXing. Will be refurbishing this gem, a labor of love.
>
> Couple of questions for the board:
>
> 1. Anyone know a source for the outboard xtals you plug into the back of the rig, to add fqy ranges. I need an xtal for the 60 meter band, 4.5-5.0 mHz, meaning it would be an xtal for 15.6 mHz (the formula is to take the lowest fqy of the desired band and add 11.1 mHz to get the xtal's actual fqy).
>
> May need other ranges, too, not sure yet.
>
> I've seen these randomly show up on eBay from time to time, but does anybody know a direct source I can avail of?

>
> 2. I used to also have a crystal slot 'extender' -- a box with 3 or 4 xtal sockets which I could plug into one of the xtal sockets in the back of the R4B. This would allow me to increase the number of additional xtals being used. Need this to have complete coverage of the bands I want . . . anyone have any thoughts re where I can pick up one of these?
>
> Cheers,
>
> Ralph
>

5596. Re: [DrakeRadio] Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 19:22:37 UTC
From: Don Cunningham
Topic: 5589 Message: 5596

Thanks for filling the gaps for me, Garey. I can't do all that off the top of my head anymore. I've been outside trying to solve issues on the 80m wire, but it's 114 in the shade, and there's just not enough shade for this old guy and I've given it up until in the morning EARLY, hi. It's about 73 in the house (no coincidence), so I guess I'm in for the duration.

And before Garey's hint goes any further, Ralph, you may NOT have the crystal switch out of my nice Johnson Viking II as I plan to use it!!!! Someone may have a junker 4 Line transmitter or receiver chassis with one of the crystal decks still whole. That could be outboarded easily, but I would think short leads would be key.
73 all,
Don, WB5HAK

[Non-text portions of this message have been removed]

5597. Jackson Bros drive needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 19:41:24 UTC
From: wa4bhk
Topic: 5597 Message: 5597

Does anyone have a junk t4 or r4 chassis that has the RF Tune or Preselector control in it? I'm looking for one of these drives for my R4 B receiver. I need the red pointer and knob also. Thanks,

Lawrence, WA4BHK

5598. Re: 4 line MW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 19:51:52 UTC
From: Dennis Weal
Topic: 5598 Message: 5598

It works fine on my 4B

Give a man a fish and he will eat that day....

Teach a man how to fish and he will eat for a lifetime.

Amen

[Non-text portions of this message have been removed]

5599. Re: [DrakeRadio] Re: 4 line MW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 20:00:35 UTC
From: Garey Barrell
Topic: 5598 Message: 5599

Well then, perhaps the fish are the key?? :-)

I've never tried the receiver, but the transmitter looks like a Christmas tree in that range. Seems
the receiver would have similar problems.? Do you find ANY signals in that range with no antenna??
Just a few? Lots!?!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Dennis Weal wrote:
> It works fine on my 4B
>
> Give a man a fish and he will eat that day....
>
> Teach a man how to fish and he will eat for a lifetime.
>
> Amen
>

5600. Re: [DrakeRadio] FS: 160m, 80m, 40m crystals $5.00 each

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 21:20:32 UTC
From: Tom Lewis
Topic: 5594 Message: 5600

Brian does the 7000khz crystals hve 18.1 stamped on the HC6/U casing? If so I would like to purchase all 5.
Tom

Connected by MOTOBLUR™

-----Original message-----
From: Bry Carling <bcarling@...>
To: DrakeRadio@yahoogroups.com, Drake-Radios@yahoogroups.com, EICO7@yahoogroups.com, FLBOATANCHORS@yahoogroups.com, ForSaleAndWanted@yahoogroups.com
Sent: Fri, Jul 15, 2011 11:22:11 PDT
Subject: [DrakeRadio] FS: 160m, 80m, 40m crystals $5.00 each

FOR SALE: Amateur Band hc6/u crystals for sale
QUANTITY 42 as follows:

1800 kHz

1801 kHz (QTY 2)

1835 kHz

1843 kHz

1848.8 kHz

1942 kHz (QTY 4)

3742 kHz (QTY 8)

7000 kHz (QTY 5)

7005 kHz

7050 kHz

7072.2 kHz (QTY 2)

7094.4 kHz (QTY 3)

7095 kHz (QTY 5)

7150 kHz (QTY 2)

7155.5 kHz

7163 kHz

7180 kHz

7184 kHz

7189 kHz

These are each available for $5.00 per crystal, plus shipping.
(check or money order)

Or buy all 42 of these crystals for $125.00 plus shipping.

73 - Brian Carling, AF4K

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5601. Re: [DrakeRadio] Re: 4 line MW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 21:41:30 UTC
From: Dennis Weal
Topic: 5598 Message: 5601

Fish? Keys? Christmas trees? Wow I want some of what you got Garey. I have not tried to receive signals in that range without an antenna,
yet!!! Maybe Alpha Centauri or maybe a forward raiding party from an inner earth rebel group? Gee whillikers what have I been missing? 8^>

Denny

----- Original Message -----
From: Garey Barrell
Sent: 07/15/11 04:00 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: 4 line MW

Well then, perhaps the fish are the key?? :-)

I've never tried the receiver, but the transmitter looks like a Christmas tree in that range. Seems
the receiver would have similar problems.? Do you find ANY signals in that range with no antenna??
Just a few? Lots!?!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com >

Dennis Weal wrote:
> It works fine on my 4B
>
> Give a man a fish and he will eat that day....
>
> Teach a man how to fish and he will eat for a lifetime.
>
> Amen
>

[Non-text portions of this message have been removed]

5602. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 11:08:31 UTC
From: Keith Evans
Topic: 5546 Message: 5602

Hi Jim,
It was on a very early TR7 which only had the one input, the spare pin was n/c
I still use the 444 with the pad on my 93** s/n late TR7
73
Keith G3VKW

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, July 13, 2011 2:39 AM
Subject: Re: [DrakeRadio] Re: TR7 questions

On Tue, 12 Jul 2011 17:06:37 +0100, Keith Evans wrote:

>On my real 444 I have a small 3 resistor pad, as I found originally the 444 overdrove the TR7.

Did you run it on the high level or low level input pin?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5603. Re: Source for Xtals for R4B?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 11:58:07 UTC
From: Ralph
Topic: 5589 Message: 5603

Wanted to thank everybody for pitching in on that info I was seeking re the R4B, xtals to extend to additional 500 kHz ranges, etc.

I used the R4B extensively in my younger days, in the 1970s, to DX Latin America, Indonesia, Africa from my Midwestern USA QTH . . . and yes, the caveats were already communicated about possible 'bugs' in the 4.5-5.5 range. But with that in mind, it was easy to tell when something was a rx artifact versus a real xmsn.

The R4B was a real whiz on the tropical bands, actually ESPECIALLY on the 60 meter tropical band, what with the rx's terrific capability for exalted carrier SSB reception, its highly effective IF notch, very good receiving sensitivity, nice range of bandwidth selectivity choices . . .

Again thanks to all on the xtal sources. Now, if I could just find an outboard plug-in xtal socket box, to add more seats at the xtal party, I'll be all set! ;-)

Ralph

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Ralph -
>
> The R-4B isn't a particularly good choice in the 4.5 to 5.5 MHz range. It will work, but due to the
> 2nd Mixer LO being at 5.595 MHz, the PTO tuning from 4.995 to 5.455, and the IFs at 455 and 50
> kHz. As you can see, there are a LOT of potential spurious responses. Transmitting is a definite
> no-no, but the receiver is ok as long as you realize there are going to be 'extra' signals in that
> range.
>
> International Crystal Mfr <www.icmfg.com> is an excellent source of reliable crystals. Ham owned,
> with data on file for anything Drake ever made. Just tell them what frequency you want to cover and
> what unit it's for and it shows up! Most important, they are ON FREQUENCY, minimizing Band-to-Band
> calibration adjustments.
>
> I don't know of the crystal 'multiplier' you're referring to. The old Johnson Viking II transmitter
> had a ten position socket and associated switch.. :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA

>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Ralph wrote:
> > Just had the good fortune to reacquire a Drake R4B -- beloved receiver used in the 1970s for shortwave tropical band DXing. Will be refurbishing this gem, a labor of love.
> >
> > Couple of questions for the board:
> >
> > 1. Anyone know a source for the outboard xtals you plug into the back of the rig, to add fqy ranges. I need an xtal for the 60 meter band, 4.5-5.0 mHz, meaning it would be an xtal for 15.6 mHz (the formula is to take the lowest fqy of the desired band and add 11.1 mHz to get the xtal's actual fqy).
> >
> > May need other ranges, too, not sure yet.
> >
> > I've seen these randomly show up on eBay from time to time, but does anybody know a direct source I can avail of?
> >
> > 2. I used to also have a crystal slot 'extender' -- a box with 3 or 4 xtal sockets which I could plug into one of the xtal sockets in the back of the R4B. This would allow me to increase the number of additional xtals being used. Need this to have complete coverage of the bands I want . . . anyone have any thoughts re where I can pick up one of these?
> >
> > Cheers,
> >
> > Ralph
> >
>

5604. Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 19:18:58 UTC
From: Dick KF4NS
Topic: 5604 Message: 5604

No replies from Boatanchors so will try here. This mic came with my used TR4C many moons ago and I set it aside because the element was dead. Sure would like to have a copy of the original instruction sheet. I try to have paperwork for all my gear and accessories.
73, Dick KF4NS
St Petersburg, FL 33714 USA
Keep The Glow!

----- Original Message -----
From: "Dick KF4NS" <kf4nsradio@...>
To: <boatanchors@...>
Sent: Friday, June 24, 2011 3:48 PM
Subject: Turner 454X microphone

:I was just replacing the element with a Kobitone 9K imp. crystal
: cartridge and could not find my original spec/instruction sheet.
Does
: anyone have a copy they could scan and send to me?
:
: 73, Dick KF4NS
: St Petersburg, FL 33714 USA
: Keep The Glow!
:

5605. Re: [Drakelist] Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 20:13:07 UTC
From: Jim Shorney
Topic: 5604 Message: 5605

I've got an original cut sheet dated Dec. 1979 on the 254HC & 454HC, but doesn't have wiring info. The difference between the two seems to be freq response, 100-8K for the 254HC vs. 300-3K for the 454HC. The generic Turner wiring booklet should cover wiring. I can scan this and send it along if you want.

A good source of Turner info on the web:

http://www.ericbraun.com/turner/

Or Google for "turner microphones" if you have some time to kill.

73

-Jim

On Sat, 16 Jul 2011 15:18:58 -0400, Dick KF4NS wrote:

>No replies from Boatanchors so will try here. This mic came with my
>used TR4C many moons ago and I set it aside because the element was
>dead. Sure would like to have a copy of the original instruction
>sheet. I try to have paperwork for all my gear and accessories.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5606. Re: [DrakeRadio] Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 20:13:05 UTC
From: Dennis Weal
Topic: 5604 Message: 5606

Dick at one time Turner had spec listings on the net. But recently I went looking and couldn't find it. I also have a 454X with no instruction sheet. As a matter of fact I couldn't find it on the Turner page. I don't think it is a rare mic, yet very little is available info wise. If you find anything please share as I like to have data sheets on things I own (or used to own).

73
Denny
w4eal

----- Original Message -----
From: Dick KF4NS
Sent: 07/16/11 03:18 PM
To: DrakeRadio list, Drake list at zerobeat, Drake list at mailman
Subject: [DrakeRadio] Fw: Turner 454X microphone

[Non-text portions of this message have been removed]

5607. Re: [DrakeRadio] Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 20:51:38 UTC
From: Jim Shorney
Topic: 5604 Message: 5607

The Turner Wiring Booklet will tell you most everything you need to know about how to wire them:

http://www.cbtricks.com/members/toban/turner/turner1.htm

http://www.ericbraun.com/turner/Turner%20Mic%20Wiring.pdf

As for specs, they seem to be similar to the 250 series in style, but with a frequency response tailored for communications. The "X" apparently means crystal element.

73

-Jim

On Sat, 16 Jul 2011 20:13:05 +0000, Dennis Weal wrote:

>Dick at one time Turner had spec listings on the net. But recently I went looking and couldn't find it. I also have a 454X with no instruction sheet. As a matter of fact I couldn't find it on the Turner page. I don't think it is a rare mic, yet very little is available info wise. If you find anything please share as I like to have data sheets on things I own (or used to own).

--
Ham Radio NU0C
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5608. Re: [DrakeRadio] Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 20:58:20 UTC
From: Jim Shorney
Topic: 5604 Message: 5608

Ah. Search engine surprise:

http://www.kb2ljj.com/manuals/13-Antenna%20tuners/

Google can be your friend.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5609. Re: [DrakeRadio] Fw: Turner 454X microphone

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-16 21:58:46 UTC
From: Paul Kraemer
Topic: 5604 Message: 5609

There were two models of 454, X and C. Both tailored for ssb response.
X=crystal
C=ceramic
Ceramic elements are preferred as more rugged, less succeptable to humidity
I still use my 454C almost every day on the S-line and Drake line and it
gets great reports even after all these years and being dropped a few times.
Sorry, no data sheet. Got it used at a hamfest decades ago.
Paul
----- Original Message -----
From: "Dennis Weal" <w4eal@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, July 16, 2011 3:13 PM
Subject: Re: [DrakeRadio] Fw: Turner 454X microphone

> Dick at one time Turner had spec listings on the net. But recently I went
> looking and couldn't find it. I also have a 454X with no instruction
> sheet. As a matter of fact I couldn't find it on the Turner page. I don't
> think it is a rare mic, yet very little is available info wise. If you
> find anything please share as I like to have data sheets on things I own
> (or used to own).
>
> 73
> Denny
> w4eal
>
> ----- Original Message -----
> From: Dick KF4NS
> Sent: 07/16/11 03:18 PM
> To: DrakeRadio list, Drake list at zerobeat, Drake list at mailman
> Subject: [DrakeRadio] Fw: Turner 454X microphone
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

5610. Hi

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 00:41:07 UTC
From: john
Topic: 5610 Message: 5610

Hi
There is a piece of good news for you: I usually buy products on www.xanshop.com which is a global high-tech electronic products shopping platform is putting on 10 years anniversaries. All products on it are on sale as well as free delivery charges, and you can also get a gift when you shopping.

You can look around when you free, it would be a good choice!

[Non-text portions of this message have been removed]

5611. Re: [DrakeRadio] Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-12 03:47:17 UTC
From: Jim Shorney
Topic: 5546 Message: 5611

On Tue, 12 Jul 2011 03:29:10 -0000, Bob Szejk wrote:

>
>One of the things I did today was run an A/B between the +3 and a super sidekick. The +3 was the hands down winner with a much flatter response. The SSK was more low end oriented - kinda "muddy"

That's usually the difference between a dynamic and a crystal/ceramic cartridge. I have used the highly regarded Shure 444 also, and while they sound quite good and very "natural", they lack "punch" in the mid/highs that tends to work better for DXing and contesting. As I mentioned, individual voice characteristics and operating style are the main factors in type of microphone - more so than the name on the outside or the catalog price. :) I've gathered a flock of EV broadcast and stage mics to play with sometime, including the "legendary" RE-20, and various other dynamic and condenser models. It will be interesting to play with them and see how each sounds though a narrowband communications channel.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5612. Re: TR7 questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-18 17:45:01 UTC
From: andrew
Topic: 5546 Message: 5612

I use the 444 with the TR3 and get good reports . use the EV 638 on the Heath HW101 and Hallicrafter HT44/SX117 .

andrew
kd5pnt

[Non-text portions of this message have been removed]

5613. Re: [DrakeRadio] 4 series on MW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-15 18:34:18 UTC
From: Garey Barrell
Topic: 5613 Message: 5613

It will 'work' if you install a 12.1 MHz crystal, but not very well. Properly aligned, the 4
Series _Preselector_ will just barely go down to 1.8 MHz, the bottom of the 160M band. The sensitivity drops off drastically below that. I have been able to receive stations around 1500 with
the 12.6 MHz crystal, but with greatly reduced sensitivity,

The 'correct' way to get MW on the 4 Series is with an 'up-converter", which is essentially a mixer
that translates the 0.5 - 1.5 MHz range up to, 28.5 - 29.5 MHz via a 27.5 MHz crystal LO. Drake
marketed such a device, the 4-LF, but they are quite rare.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Magnus wrote:
> Will the R4 series tune MW, 1-1.5 Mhz if I install a 1.0 Mhz crystal? The preselector could be peaked at 1.5 Mhz, which is close.
>
>

5614. tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-19 21:10:36 UTC
From: Christmas Peter
Topic: 5614 Message: 5614

Hey All,
I need a little advise on my tr-4c...It is a lovely radio but the cw note (received) varies in pitch...something is wrong...Any pointers where to start looking....??

The second question...Several of the knobs have the little spring clips on them against the shaft and it seems for no reason they stop providing tension on the shaft and the knob comes loose...

Yea, I know simple problems but just wanted some opinions on where to start...
Thanks
Doc
W2MFT

5615. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-19 23:31:51 UTC
From: Forrest Plumstead
Topic: 5614 Message: 5615

I had the same knob problem. Got mine
here.<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=360372947185&ssPageName=STRK:MEWN
X:IT#ht_3724wt_825>
These
have the set screw on the back I'm a lot happier with them. 2.50 + 2.50 S&H
each. Set of 16 28.99 + 5.00 S&H.

On Tue, Jul 19, 2011 at 4:10 PM, Christmas Peter
<christmaspeter@...>wrote:

> **
>
>
> Hey All,
> I need a little advise on my tr-4c...It is a lovely radio but the cw note
> (received) varies in pitch...something is wrong...Any pointers where to
> start looking....??
>
> The second question...Several of the knobs have the little spring clips on
> them against the shaft and it seems for no reason they stop providing
> tension on the shaft and the knob comes loose...
>
> Yea, I know simple problems but just wanted some opinions on where to
> start...
> Thanks
> Doc
> W2MFT
>
>

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5616. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-19 23:24:40 UTC
From: Don Cunningham
Topic: 5614 Message: 5616

Doc,
I'm no help on the sidetone, but several vendors now sell replacement Drake knobs with set screws that will solve that problem. I've always broken them when trying to "bend" them for a little more tension. I'd just bite the bullet and buy a few. Look on WB4HFN's site, and I think you will turn up some vendors, or Google "Drake knobs" and I know you will find them, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5617. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-19 23:49:05 UTC
From: Forrest Plumstead
Topic: 5614 Message: 5617

Sorry 4.99 + 3.00 S&H I was looking at a different one.

On Tue, Jul 19, 2011 at 6:31 PM, Forrest Plumstead <fplum1@...> wrote:

> I had the same knob problem. Got mine here.<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=360372947185&ssPageName=STRK:MEWNX:IT#ht_3724wt_825> These
> have the set screw on the back I'm a lot happier with them. 2.50 + 2.50 S&H
> each. Set of 16 28.99 + 5.00 S&H.
>
>
> On Tue, Jul 19, 2011 at 4:10 PM, Christmas Peter <christmaspeter@...
> > wrote:
>
>> **
>>
>>
>> Hey All,
>> I need a little advise on my tr-4c...It is a lovely radio but the cw note
>> (received) varies in pitch...something is wrong...Any pointers where to
>> start looking....??
>>
>> The second question...Several of the knobs have the little spring clips on
>> them against the shaft and it seems for no reason they stop providing
>> tension on the shaft and the knob comes loose...
>>
>> Yea, I know simple problems but just wanted some opinions on where to
>> start...
>> Thanks
>> Doc
>> W2MFT
>>
>>
>
>
>
> --
> 73
> WB5HQO Forrest
> Ham Radio WB5HQO http://forrest.3h.com/main.html
> Plumstead and Associated Families:
> http://freepages.genealogy.rootsweb.com/~fplum/
>
> NAQCC Member # 3678 FPQRP # 2642
> SKCC Member # 6855 QRPadillo # 59
>

>
>

--
73
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http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5618. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 02:20:33 UTC
From: Garey Barrell
Topic: 5614 Message: 5618

Doc -

Ty Al, KC9YS for replacement knobs with set-screws. Tell him I sent you and he'll give you a good
deal!!

On the warble... When does it vary? When you tune does it jump in little bits? Does it just wander around while sitting still? How much does it change? Does it do it on all bands? Does it
do it on the Calibrator?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Christmas Peter wrote:
> Hey All,
> I need a little advise on my tr-4c...It is a lovely radio but the cw note (received) varies in pitch...something is wrong...Any pointers where to start looking....??
>
> The second question...Several of the knobs have the little spring clips on them against the shaft and it seems for no reason they stop providing tension on the shaft and the knob comes loose...
>
> Yea, I know simple problems but just wanted some opinions on where to start...
> Thanks
> Doc
> W2MFT
>
>

5619. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 03:03:51 UTC
From: Christmas Peter
Topic: 5614 Message: 5619

Hi Garey,

Thanks for the response..

When you tune does it jump in little bits? No, it behaves itself when tuning...

Does it just wander around while sitting still? Yes

How much does it change? about 300 hz

Does it do it on all bands? Yes

Does it do it on the Calibrator? Yes , it does
Cheers
Doc
W2MFT

--- On Tue, 7/19/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] tr-4c slight problems
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 19, 2011, 10:20 PM

Doc -

Ty Al, KC9YS for replacement knobs with set-screws. Tell him I sent you and he'll give you a good

deal!!

On the warble... When does it vary? When you tune does it jump in little bits? Does it just

wander around while sitting still? How much does it change? Does it do it on all bands? Does it

do it on the Calibrator?

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

Christmas Peter wrote:

> Hey All,

> I need a little advise on my tr-4c...It is a lovely radio but the cw note (received) varies in pitch...something is wrong...Any pointers where to start looking....??

>

> The second question...Several of the knobs have the little spring clips on them against the shaft and it seems for no reason they stop providing tension on the shaft and the knob comes loose...

>

> Yea, I know simple problems but just wanted some opinions on where to start...

> Thanks

> Doc

> W2MFT

>

>

[Non-text portions of this message have been removed]

5620. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 03:05:15 UTC
From: Christmas Peter
Topic: 5614 Message: 5620

I checked again and it does do it when tuning...never noticed that before
Doc

--- On Tue, 7/19/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] tr-4c slight problems
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 19, 2011, 10:20 PM

Doc -

Ty Al, KC9YS for replacement knobs with set-screws. Tell him I sent you and he'll give you a good

deal!!

On the warble... When does it vary? When you tune does it jump in little bits? Does it just

wander around while sitting still? How much does it change? Does it do it on all bands? Does it

do it on the Calibrator?

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

Christmas Peter wrote:

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> The second question...Several of the knobs have the little spring clips on them against the shaft and it seems for no reason they stop providing tension on the shaft and the knob comes loose...

>

> Yea, I know simple problems but just wanted some opinions on where to start...

> Thanks

> Doc

> W2MFT

>

>

[Non-text portions of this message have been removed]

5621. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 03:27:49 UTC
From: ALAN PHILLIPS
Topic: 5614 Message: 5621

Thanks Garey:
I'll give him the best price.

For drake knobs email me at kc9ys@... or my cell at 630-777-2622.

73 al kc9ys

From: Christmas Peter <christmaspeter@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, July 19, 2011 10:05:15 PM
Subject: Re: [DrakeRadio] tr-4c slight problems

I checked again and it does do it when tuning...never noticed that before
Doc

--- On Tue, 7/19/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@mindspring.com>
Subject: Re: [DrakeRadio] tr-4c slight problems
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 19, 2011, 10:20 PM

Doc -

Ty Al, KC9YS for replacement knobs with set-screws. Tell him I sent you and
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On the warble... When does it vary? When you tune does it jump in little bits?
Does it just

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all bands? Does it

do it on the Calibrator?

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

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Christmas Peter wrote:

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>against the shaft and it seems for no reason they stop providing tension on the
>shaft and the knob comes loose...

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> Yea, I know simple problems but just wanted some opinions on where to start...

> Thanks

> Doc

> W2MFT

>

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5622. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 03:41:34 UTC
From: Don Cunningham
Topic: 5614 Message: 5622

Oh, no, that's not the "brother in law" price, is it Al (twice list price), HI
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5623. Re: [DrakeRadio] tr-4c slight problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-20 15:58:17 UTC
From: ALAN PHILLIPS
Topic: 5614 Message: 5623

Hi Don:

In Chicago its called the Sears discount, when your costs aren't double, but three times. It happened to my Dad in the 60's. $85 for a flush and fill, and when he inquired about the High charges, the Mechanic told him he got the Sears discount! (it was even at sears automotive...)

73 Al kc9ys

From: Don Cunningham <donc@martineer.net>
To: DrakeRadio@yahoogroups.com
Sent: Tue, July 19, 2011 10:41:34 PM
Subject: Re: [DrakeRadio] tr-4c slight problems

Oh, no, that's not the "brother in law" price, is it Al (twice list price), HI
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5624. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-24 19:25:10 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5624

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5625. SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-25 14:47:54 UTC
From: andylingham29
Topic: 5625 Message: 5625

Having inherited a SPR-4,I want to update this receiver,using new chips in the power board and audio amp.Further, would like to hot up the front end and IF to make this receiver more imune to cross modulation. Would like very much, to hear or read what others have done in this area, to avoid, "reinventing the wheel" Would also appreciate any advice regarding pitfalls.

Tnx & 73s de IR.AndyP.V.Lingham 9M2PV

5626. Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-25 18:48:33 UTC
From: Allan C
Topic: 5626 Message: 5626

Hi, To all in the group I am Allan=kb5doh in Norman Oklahoma I am a crazy 65 year old man and broken down looking forward to reading here each week you can learn more about me by looking me up on QRZ.com.

Thanks for allowing me to join this group

73 & God Bless from Allan=kb5doh

[Non-text portions of this message have been removed]

5627. tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-25 22:28:12 UTC
From: Christmas Peter
Topic: 5627 Message: 5627

My tr 4c will dial calibrate on all but 15 meters. On 15M I can not get the dial to 100khz mark to align it with the calibrator's signal. Any thoughts??

Cheers
Doc
W2MFT

[Non-text portions of this message have been removed]

5628. Re: [DrakeRadio] Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 00:58:57 UTC
From: Jim Shorney
Topic: 5626 Message: 5628

Hi Allan, nice to see you here. You're not so crazy as the rest of us think we are.

73

-Jim
NU0C

On Mon, 25 Jul 2011 18:48:33 -0000, Allan C wrote:

>
>Hi, To all in the group I am Allan=kb5doh in Norman Oklahoma I am a
>crazy 65 year old man and broken down looking forward to reading here
>each week you can learn more about me by looking me up on QRZ.com.
>
>Thanks for allowing me to join this group
>
>73 & God Bless from Allan=kb5doh
>
>
>
>[Non-text portions of this message have been removed]
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5629. Re: [DrakeRadio] Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 01:06:37 UTC
From: Don Cunningham
Topic: 5626 Message: 5629

What you mean "think", Jim???? :^) Hi Allan, I'm just down the road from you between Duncan and Lawton. Welcome to the madhouse, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5630. Re: [DrakeRadio] Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 01:41:43 UTC
From: Richard Knoppow
Topic: 5626 Message: 5630

```
----- Original Message -----
From: "Allan C" <a1mc@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 25, 2011 11:48 AM
Subject: [DrakeRadio] Introduction kb5doh

>
> Hi, To all in the group I am Allan=kb5doh in Norman
> Oklahoma I am a
> crazy 65 year old man and broken down looking forward to
> reading here
> each week you can learn more about me by looking me up on
> QRZ.com.
>
> Thanks for allowing me to join this group
>
> 73 & God Bless from Allan=kb5doh

No one who is interested in Drake equipment, let alone
owns it, can possibly be crazy (I think). Welcome aboard.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

5631. Re: [DrakeRadio] Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 02:22:58 UTC
From: Jim Shorney
Topic: 5626 Message: 5631

On Mon, 25 Jul 2011 18:41:43 -0700, Richard Knoppow wrote:

>No one who is interested in Drake equipment, let alone
>owns it, can possibly be crazy (I think). Welcome aboard.

Professor Knoppow is crazy like a fox... :)

I know Allan from another group, he'll fit right in.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5632. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 02:50:06 UTC
From: Garey Barrell
Topic: 5627 Message: 5632

Doc -

I'm not sure if you have NO calibrator signal on 15M or if it's just too far off frequency.

If no signal at all, it could be dirty switch contacts, crystal contacts, or a dead crystal.
Plugging and unplugging the 15M crystal a few times might help. There is a procedure in the manual,
5-10, for adjusting L5 for 15M. If no luck, then it's almost certainly a dead crystal.

International Crystal MFG <icmfg.com> can provide a replacement.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Christmas Peter wrote:
> My tr 4c will dial calibrate on all but 15 meters. On 15M I can not get the dial to 100khz mark to align it with the calibrator's signal. Any thoughts??
>
> Cheers
> Doc
> W2MFT
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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5633. Re: [DrakeRadio] Introduction kb5doh

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 02:57:23 UTC
From: Charles Rodecap
Topic: 5626 Message: 5633

Welcome to the group Allan!
Visiting hours are from 0200 to 1930 on alternating Thursdays.
Inmates are only allowed in the padded hallways on Mondays for DX contacts.
Charlie

--- On Mon, 7/25/11, Jim Shorney <jshorney@...> wrote:

From: Jim Shorney <jshorney@...>
Subject: Re: [DrakeRadio] Introduction kb5doh
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Date: Monday, July 25, 2011, 10:22 PM

On Mon, 25 Jul 2011 18:41:43 -0700, Richard Knoppow wrote:

>No one who is interested in Drake equipment, let alone

>owns it, can possibly be crazy (I think). Welcome aboard.

Professor Knoppow is crazy like a fox... :)

I know Allan from another group, he'll fit right in.

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Ham Radio NU0C

Lincoln, Nebraska, U.S.S.A.

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http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5634. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 03:07:41 UTC
From: Christmas Peter
Topic: 5627 Message: 5634

Hi Garey,

The signal is too far away to align the dial with....I clearly hear the calibrator at .020 and I cant seem to get the dial to correct that much...and its just on 15 meters

Cheers
Doc
W2MFT

--- On Mon, 7/25/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@mindspring.com>
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
To: DrakeRadio@yahoogroups.com
Date: Monday, July 25, 2011, 10:50 PM

Doc -

I'm not sure if you have NO calibrator signal on 15M or if it's just too far off frequency.

If no signal at all, it could be dirty switch contacts, crystal contacts, or a dead crystal.

Plugging and unplugging the 15M crystal a few times might help. There is a procedure in the manual,

5-10, for adjusting L5 for 15M. If no luck, then it's almost certainly a dead crystal.

International Crystal MFG <icmfg.com> can provide a replacement.

73, Garey - K4OAH

Glen Allen, VA

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>

> Cheers

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> W2MFT

>

>

> [Non-text portions of this message have been removed]

>

>

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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

5635. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 03:54:36 UTC
From: Richard Knoppow
Topic: 5627 Message: 5635

----- Original Message -----
From: "Christmas Peter" <christmaspeter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 25, 2011 8:07 PM
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

Hi Garey,

The signal is too far away to align the dial with....I
clearly hear the calibrator at .020 and I cant seem to get
the dial to correct that much...and its just on 15 meters

Cheers
Doc
W2MFT

It would be useful to have another signal source of
known frequency. That would tell you immediately if the dial
calibration is way off. I am not sure about the TR-4C but on
many other receivers the calibrator is connected right at
the antenna input so that its ouput can be heard on another
receiver by connecting both antenna terminals together (be
carefull not to transmit into another receiver), Actually a
couple of wires should be enough. That will tell you if the
calibrator is putting out on 15 meters. These two tests can
help to isolate the problem.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5636. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 04:53:59 UTC
From: Christmas Peter
Topic: 5627 Message: 5636

I can hear the calibrator on 15m its just to far waya. on all other bands its dead nuts on.
Cheers
Doc
W2MFT

--- On Mon, 7/25/11, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@....com>
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
To: DrakeRadio@yahoogroups.com
Date: Monday, July 25, 2011, 11:54 PM

----- Original Message -----

From: "Christmas Peter" <christmaspeter@...>

To: <DrakeRadio@yahoogroups.com>

Sent: Monday, July 25, 2011 8:07 PM

Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

Hi Garey,

The signal is too far away to align the dial with....I

clearly hear the calibrator at .020 and I cant seem to get

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Doc

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receiver by connecting both antenna terminals together (be

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Richard Knoppow

Los Angeles

WB6KBL

dickburk@...

[Non-text portions of this message have been removed]

5637. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 05:18:18 UTC
From: Richard Knoppow
Topic: 5627 Message: 5637

----- Original Message -----
From: "Christmas Peter" <christmaspeter@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, July 25, 2011 9:53 PM
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

I can hear the calibrator on 15m its just to far waya. on
all other bands its dead nuts on.
Cheers
Doc
W2MFT

I have to agree with Garey that its probably the 15
meter crystal. Try cleaning its pins with a pencil eraser
and put a little Deoxit on them. The wiggle them in the
socket a bit to clean the socket. My guess is that it won't
fix the problem but is worth trying. Crystals do age and
some of the older ones can drift pretty far. The handbook
should state the actual crystal frequency and it should be
printed on the case. One way to check it is to use another
receiver to hear the oscillator. I think the fix is to
replace the crystal. I have had good luck with International
Crystal. BTW, I found a crystal in a Collins R-388/51J-3
that was about 5 kc off. I got a replacement from IC that
was exactly on frequency.
If you have done all the voodoo with cleaning the
bandswitch (must be done thoroughly) and other stuff there
is not much left.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5638. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 15:55:09 UTC
From: Christmas Peter
Topic: 5627 Message: 5638

Thanks Richard.

I pulled the crystals and made sure they were clean and re cleaned all the tube pins as well. It most likely is crystal...I found the 2nd 10 meter rock to be the same as the 15 m rock as well.

The rig is a really good looker and it was very clean when I got it...It came from an old friend who passed...It just has a few problems that I am working through.

The biggest one now is that sometimes I hear the t/r relay go from transmit to receive but its like the vox circuit isn't releasing...it stops transmitting but no rx ahd then I tap the key a time or two and it comes back...

So I am having fun learning all about this radio and really enjoying it.

Garey has been a big help....I'm going to get the disk I figure that would be a big help. I want to thank those here that help and I don't want to be thought of a user...its just I don't really know where to start...but thanks to you guys its starting to behave a little better...I operate almost all cw and I have a datong for it and it amazes me how well it hears.

Well if anyone has any thoughts about the t/r I would appreciate hearing them...I don't know if there is something I am missing with the vox anti vox adjustment or what??
Cheers
Doc
W2MFT

--- On Tue, 7/26/11, Richard Knoppow <1oldlens1@...> wrote:

From: Richard Knoppow <1oldlens1@...>
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 26, 2011, 1:18 AM

----- Original Message -----

From: "Christmas Peter" <christmaspeter@...>

To: <DrakeRadio@yahoogroups.com>

Sent: Monday, July 25, 2011 9:53 PM

Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

I can hear the calibrator on 15m its just to far waya. on

all other bands its dead nuts on.

Cheers

Doc

W2MFT

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--

Richard Knoppow

Los Angeles

WB6KBL

dickburk@...

[Non-text portions of this message have been removed]

5639. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 16:18:08 UTC
From: Garey Barrell
Topic: 5627 Message: 5639

Doc -

Your T/R problem sounds like a relay problem. There is one set of contacts that control T/R. The
'arm' is grounded, and the contacts are connected to the XMTR K and RCVR K. When the relay is
closed, the XMTR K contact is grounded, and when the relay is open, the RCVR K is grounded.

First check. When it 'seems to' stop transmitting and failing to receiver, what happens if you turn
on the CALibrator? Tune to the nearest harmonic and see if the CALibrator can be heard. If it CAN
be heard with the receiver still 'dead', then the problem may be the antenna switching contacts. If
you cannot hear the CALibrator, the the RCVR K contact is not being grounded.

If you unplug the relay, the plastic cover can be removed by carefully prying it away from the base
at the center of each long side. There is a small nub. Pry the cover up until it can be lifted
off. Then take a piece of paper and spray or drop DeoxIT on it. Then place it between each set of
contact faces and withdraw with the contacts 'closed'. This should clean them and get you working
again.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Christmas Peter wrote:
> Thanks Richard.
>
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>
> The biggest one now is that sometimes I hear the t/r relay go from transmit to receive but its like the vox circuit isn't releasing...it stops transmitting but no rx ahd then I tap the key a time or two and it comes back...

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> So I am having fun learning all about this radio and really enjoying it.
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> Garey has been a big help....I'm going to get the disk I figure that would be a big help. I want to thank those here that help and I don't want to be thought of a user...its just I don't really know where to start...but thanks to you guys its starting to behave a little better...I operate almost all cw and I have a datong for it and it amazes me how well it hears.
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> Well if anyone has any thoughts about the t/r I would appreciate hearing them...I don't know if there is something I am missing with the vox anti vox adjustment or what??
> Cheers
> Doc
> W2MFT
>
>
> --- On Tue, 7/26/11, Richard Knoppow<1oldlens1@...> wrote:
>
> From: Richard Knoppow<1oldlens1@...>
> Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
> To: DrakeRadio@yahoogroups.com
> Date: Tuesday, July 26, 2011, 1:18 AM
>
>
> ----- Original Message -----
>
> From: "Christmas Peter"<christmaspeter@...>
>
> To:<DrakeRadio@yahoogroups.com>
>
> Sent: Monday, July 25, 2011 9:53 PM
>
> Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
>
>
>
> I can hear the calibrator on 15m its just to far waya. on
>
> all other bands its dead nuts on.
>
> Cheers
>
> Doc
>
> W2MFT
>
>
>
> I have to agree with Garey that its probably the 15
>

> meter crystal. Try cleaning its pins with a pencil eraser
>
> and put a little Deoxit on them. The wiggle them in the
>
> socket a bit to clean the socket. My guess is that it won't
>
> fix the problem but is worth trying. Crystals do age and
>
> some of the older ones can drift pretty far. The handbook
>
> should state the actual crystal frequency and it should be
>
> printed on the case. One way to check it is to use another
>
> receiver to hear the oscillator. I think the fix is to
>
> replace the crystal. I have had good luck with International
>
> Crystal. BTW, I found a crystal in a Collins R-388/51J-3
>
> that was about 5 kc off. I got a replacement from IC that
>
> was exactly on frequency.
>
> If you have done all the voodoo with cleaning the
>
> bandswitch (must be done thoroughly) and other stuff there
>
> is not much left.
>

5640. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 19:28:14 UTC
From: Jim Wilhite
Topic: 5627 Message: 5640

Doc, Do be careful of that relay. Over the years I have always been able to find replacement relays for anything I needed but had a shock this past week. I have an Ameritron AL-1200 that developed a problem with the antenna relay, the contacts for receive pass through were dirty and when I went to receive the receiver couldn't hear much of anything.

I tried cleaning the contacts and weren't very successful, beside that when a relay starts to give trouble it will quit eventually anyway. So I called Ameritron and to my amazement they told me that relay wasn't available. The amp was built prior to 1999 and used a 3PDT, stud mount, open frame relay like I had seen millions of times. The tech told me to "google" for the manufacturer part number and gave me that number because the current production amplifier uses something completely different which would not be easy to modify.

The search retuned three hits in the US. The one I settled on was RJ Components which is a wholesale group. Mouser shows the relay in their info but would have to buy something like 30 of them from someone like RJ to sell to me, not the normal 1. So I called RJ and they have a retail web site and they transferred one of their stock over to that website to sell by CC.

The real shock is the relay was $35 and shipping and handling made the final price just over $48. So do be careful of your relays guys. The guy at RJ told me that they are the largest purchaser of legacy parts in the world. For example, they purchased the final stock of Allen Bradly carbon composition resistors when AB quit making them. They have a lot of stuff but even they didn't have one of the other relays in my amp. These mechanical relays are becoming very expensive and hard to find. So treat it with care and don't bend the arms, then pray it holds from now on.

Jim/W5JO

If you unplug the relay, the plastic cover can be removed by carefully prying it away from the base
at the center of each long side. There is a small nub. Pry the cover up until it can be lifted
off. Then take a piece of paper and spray or drop DeoxIT on it. Then place it between each set of
contact faces and withdraw with the contacts 'closed'. This should clean them and get you working
again.

73, Garey - K4OAH
Glen Allen, VA

>
>

[Non-text portions of this message have been removed]

5641. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 20:10:45 UTC
From: Garey Barrell
Topic: 5627 Message: 5641

Jim -

Good advice. I don't think it applies in this case, as the unit has been stored for a while and
probably just has a film of corrosion on the contacts. These contacts are 'self-cleaning', i.e.,
when they close they actually 'scrub' against each other. But a little DeoxIT does it faster and
easier than multiple actuations.

Mouser and Digi-Key have about 200 of the P&B R10-E1Y4-V2.5K, but the price HAS gone up! Last year
they were about $16, now they're $25. So buying a spare might not be a bad idea. The same relay is
used in all the 4 Series transmitters, stock in later models and replacements for the wired in
earlier versions with a small mod PC board. If the existing relay is one of the 'Varley' brand
units with the 15k coil, a resistor needs to be added to allow replacement with the P&B relay.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Wilhite wrote:
> Doc, Do be careful of that relay. Over the years I have always been able to find replacement relays for anything I needed but had a shock this past week. I have an Ameritron AL-1200 that developed a problem with the antenna relay, the contacts for receive pass through were dirty and when I went to receive the receiver couldn't hear much of anything.
>
> I tried cleaning the contacts and weren't very successful, beside that when a relay starts to give trouble it will quit eventually anyway. So I called Ameritron and to my amazement they told me that relay wasn't available. The amp was built prior to 1999 and used a 3PDT, stud mount, open frame relay like I had seen millions of times. The tech told me to "google" for the manufacturer part number and gave me that number because the current production amplifier uses something completely different which would not be easy to modify.
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>
> The real shock is the relay was $35 and shipping and handling made the final price just over $48. So do be careful of your relays guys. The guy at RJ told me that they are the largest purchaser of legacy parts in the world. For example, they purchased the final stock of Allen Bradly carbon composition resistors when AB quit making them. They have a lot of stuff but even they didn't have one of the other relays in my amp. These mechanical relays are becoming very expensive and hard to find. So treat it with care and don't bend the arms, then pray it holds from now on.
>
> Jim/W5JO
>
>
>
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> If you unplug the relay, the plastic cover can be removed by carefully prying it away from the base
> at the center of each long side. There is a small nub. Pry the cover up until it can be lifted
> off. Then take a piece of paper and spray or drop DeoxIT on it. Then place it between each set of
> contact faces and withdraw with the contacts 'closed'. This should clean them and get you working
> again.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>

5642. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 20:32:48 UTC
From: Richard Knoppow
Topic: 5627 Message: 5642

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 26, 2011 1:10 PM
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

> Jim -
>
> Good advice. I don't think it applies in this case, as
> the unit has been stored for a while and
> probably just has a film of corrosion on the contacts.
> These contacts are 'self-cleaning', i.e.,
> when they close they actually 'scrub' against each other.
> But a little DeoxIT does it faster and
> easier than multiple actuations.
>
> Mouser and Digi-Key have about 200 of the P&B
> R10-E1Y4-V2.5K, but the price HAS gone up! Last year
> they were about $16, now they're $25. So buying a spare
> might not be a bad idea. The same relay is
> used in all the 4 Series transmitters, stock in later
> models and replacements for the wired in
> earlier versions with a small mod PC board. If the
> existing relay is one of the 'Varley' brand
> units with the 15k coil, a resistor needs to be added to
> allow replacement with the P&B relay.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
In the past you could buy a relay contact burnishing
tool Just a flat tool with a coating of diamond dust on it.
These could bring relay and switch contacts back to life
where contact cleaner failed. I don't know if they are still
available and have not made a web search for them. Once a
standard telco item. In liu of these some very fine emery
cloth will work but be careful that none of the residue gets
on the insulation.
If the relay is simply not pulling in check the wiring
and run a bit of typing paper or fine brush between the coil
core and contact assembly.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5643. Re: tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 20:42:49 UTC
From: toptyp19
Topic: 5627 Message: 5643

This burnishing tool has been available on
eBay for quite some time. I have no connection
with the seller and do not know how well it works.

Item number: 170672938007

Joe.

> >
> In the past you could buy a relay contact burnishing
> tool Just a flat tool with a coating of diamond dust on it.
> These could bring relay and switch contacts back to life
> where contact cleaner failed. I don't know if they are still
> available and have not made a web search for them. Once a
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> cloth will work but be careful that none of the residue gets
> on the insulation.
> If the relay is simply not pulling in check the wiring
> and run a bit of typing paper or fine brush between the coil
> core and contact assembly.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL
> dickburk@...
>

5644. Re: [DrakeRadio] Re: tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 20:49:22 UTC
From: Richard Knoppow
Topic: 5627 Message: 5644

```
----- Original Message -----
From: "toptyp19" <toptyp19@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 26, 2011 1:42 PM
Subject: [DrakeRadio] Re: tr 4C calibrator and 15 meters

>
>
>
> This burnishing tool has been available on
> eBay for quite some time. I have no connection
> with the seller and do not know how well it works.
>
> Item number: 170672938007
>
>
> Joe.
>
Looks like it. Cheap enough to bend one up to get into
tight places.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

5645. Re: [DrakeRadio] Re: tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 21:04:47 UTC
From: Richard Knoppow
Topic: 5627 Message: 5645

```
----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, July 26, 2011 1:49 PM
Subject: Re: [DrakeRadio] Re: tr 4C calibrator and 15 meters

>
> ----- Original Message -----
> From: "toptyp19" <toptyp19@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Tuesday, July 26, 2011 1:42 PM
> Subject: [DrakeRadio] Re: tr 4C calibrator and 15 meters
>
>
>>
>>
>>
>> This burnishing tool has been available on
>> eBay for quite some time. I have no connection
>> with the seller and do not know how well it works.
>>
>> Item number: 170672938007
>>
>>
>> Joe.
>>
> Looks like it. Cheap enough to bend one up to get into
> tight places.
>
Actually, I just bought one :-)

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...
```

5646. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-26 22:18:09 UTC
From: Christmas Peter
Topic: 5627 Message: 5646

Hi Garey!
Bingo!
did the cal test and nothing was heard...I carefully removed the relay...took off the cover and cleaned the contacts and then put it all back together....And IT WORKS!!!!

I am so happy......I really enjoy this radio on cw...
Thanks & 73
Doc
W2MFT

--- On Tue, 7/26/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 26, 2011, 12:18 PM

Doc -

Your T/R problem sounds like a relay problem. There is one set of contacts that control T/R. The

'arm' is grounded, and the contacts are connected to the XMTR K and RCVR K. When the relay is

closed, the XMTR K contact is grounded, and when the relay is open, the RCVR K is grounded.

First check. When it 'seems to' stop transmitting and failing to receiver, what happens if you turn

on the CALibrator? Tune to the nearest harmonic and see if the CALibrator can be heard. If it CAN

be heard with the receiver still 'dead', then the problem may be the antenna switching contacts. If

you cannot hear the CALibrator, the the RCVR K contact is not being grounded.

If you unplug the relay, the plastic cover can be removed by carefully prying it away from the base

at the center of each long side. There is a small nub. Pry the cover up until it can be lifted

off. Then take a piece of paper and spray or drop DeoxIT on it. Then place it between each set of

contact faces and withdraw with the contacts 'closed'. This should clean them and get you working

again.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

Christmas Peter wrote:

> Thanks Richard.

>

> I pulled the crystals and made sure they were clean and re cleaned all the tube pins as well. It most likely is crystal...I found the 2nd 10 meter rock to be the same as the 15 m rock as well.

>

> The rig is a really good looker and it was very clean when I got it...It came from an old friend who passed...It just has a few problems that I am working through.

>

> The biggest one now is that sometimes I hear the t/r relay go from transmit to receive but its like the vox circuit isn't releasing...it stops transmitting but no rx ahd then I tap the key a time or two and it comes back...

>

> So I am having fun learning all about this radio and really enjoying it.

>

> Garey has been a big help....I'm going to get the disk I figure that would be a big help. I want to thank those here that help and I don't want to be thought of a user...its just I don't really know where to start...but thanks to you guys its starting to behave a little better...I operate almost all cw and I have a datong for it and it amazes me how well it hears.

>

> Well if anyone has any thoughts about the t/r I would appreciate hearing them...I don't know if there is something I am missing with the vox anti vox adjustment or what??

> Cheers

> Doc

> W2MFT

>

>

> --- On Tue, 7/26/11, Richard Knoppow<1oldlens1@...> wrote:

>

> From: Richard Knoppow<1oldlens1@...>

> Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

> To: DrakeRadio@yahoogroups.com

> Date: Tuesday, July 26, 2011, 1:18 AM

>

>

> ----- Original Message -----

>

> From: "Christmas Peter"<christmaspeter@...>

>

> To:<DrakeRadio@yahoogroups.com>

>

> Sent: Monday, July 25, 2011 9:53 PM

>

> Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

>

>

>

> I can hear the calibrator on 15m its just to far waya. on

>

> all other bands its dead nuts on.

>

> Cheers

>

> Doc

>

> W2MFT

>

>

>

> I have to agree with Garey that its probably the 15

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> meter crystal. Try cleaning its pins with a pencil eraser

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> and put a little Deoxit on them. The wiggle them in the

>

> socket a bit to clean the socket. My guess is that it won't

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> fix the problem but is worth trying. Crystals do age and

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> some of the older ones can drift pretty far. The handbook

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> should state the actual crystal frequency and it should be

>

> printed on the case. One way to check it is to use another

>

> receiver to hear the oscillator. I think the fix is to

>

> replace the crystal. I have had good luck with International

>

> Crystal. BTW, I found a crystal in a Collins R-388/51J-3

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> that was about 5 kc off. I got a replacement from IC that

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> was exactly on frequency.

>

> If you have done all the voodoo with cleaning the

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> bandswitch (must be done thoroughly) and other stuff there

>

> is not much left.

>

[Non-text portions of this message have been removed]

5647. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 00:00:00 UTC
From: Don Cunningham
Topic: 5627 Message: 5647

First, glad that you solved your problem, Doc. I have been reading your journey closely as I have a TR4C that didn't come back up after storage like I hoped it would. I'll need to take some of the same steps. The rigs are a joy to use.

I caution against burnishing tools, unless it's a last resort, instead Garey's suggestion of some decent bond paper soaked in DeOxit is my preference. This goes back to Navy days, cleaning gold contacts on crypto machines with new, crisp, $20 bills. Wish I would have had access to DeOxit then!! Regardless how careful you are, the burnishing tool removes a LOT more material than a simple drag of bond paper (or card stock) soaked in DeOxit. That contact will fail again, and often soon. Also the DeOxit remains on the contacts and promotes contact long after the "scrubbing" is over. YMMV.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5648. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 00:42:40 UTC
From: Christmas Peter
Topic: 5627 Message: 5648

Hi Don,

Thanks....I used a bill and some relay contact cleaner...I have seen the damage caused by burnishers and files and I avoid them...I agree I really like operating it....Yes...with the lights off except a small desk light...Reminds me of when I was younger...<smile>

Cheers & 73
Doc
W2MFT

--- On Tue, 7/26/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@...>
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters
To: DrakeRadio@yahoogroups.com
Date: Tuesday, July 26, 2011, 8:00 PM

First, glad that you solved your problem, Doc. I have been reading your journey closely as I have a TR4C that didn't come back up after storage like I hoped it would. I'll need to take some of the same steps. The rigs are a joy to use.

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5649. Re: [DrakeRadio] tr 4C calibrator and 15 meters

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 02:57:32 UTC
From: Jim Wilhite
Topic: 5627 Message: 5649

Something commonly available now, even at Walmart, is canned air. Many times small grains of dirt lodge between contacts and a blast of air will clear them. If you can get by without chemicals you are better off.

From: Don Cunningham <donc@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, July 26, 2011 7:00 PM
Subject: Re: [DrakeRadio] tr 4C calibrator and 15 meters

First, glad that you solved your problem, Doc. I have been reading your journey closely as I have a TR4C that didn't come back up after storage like I hoped it would. I'll need to take some of the same steps. The rigs are a joy to use.

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73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5650. TR-4C low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 17:11:21 UTC
From: w1kilofoxtrot
Topic: 5650 Message: 5650

Just a quick sanity check before I go nuts. Is it possible, or even likely, that V4, the TX mixer, is soft, since I only get good output on 80 and 20? I've gone through and peaked the TX chain as recommended. Yes, I know it's more likely V1 or V3 are at fault, since they form the heterodyne/PTO chain, but I've replaced tubes there to no significant effect.

Have I taken leave of my senses?

73,
Steve
W1KF

5651. Re: [DrakeRadio] TR-4C low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 18:02:11 UTC
From: Garey Barrell
Topic: 5650 Message: 5651

Steve -

I would try swapping V3 and V4 just as a check. If no improvement, I would next measure DC voltages
on V1, V3 and V4. Use a VTVM if possible on the Grids of these stages, with the 1M resistor at the
probe tip. If not, stick a 1M on the end of your DMM and scale the readings to account for it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

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>
> Have I taken leave of my senses?
>
> 73,
> Steve
> W1KF
>

5652. Reduced: Box of Precision Wirewound Resistors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-27 22:05:05 UTC
From: Bry Carling
Topic: 5652 Message: 5652

REDUCED: Box of 70 Precision Wirewound Resistors, NOS.

Most are made by Shallcross Electronics of Collingdale, PA and a few from IRC and Bond Electronics of Summit, NJ etc. Most of these are 1% or better.
Examples: 3.3K, 4.0K, 5.0 K, 6.25K, 23.75K, 50K, 64K, 100K, 130K, 450K, 500K, 900K, 2.0 Megohms, 2.5 Megohms, 4.8 Megohms.
Was $30.00

Will sell the whole box of resistors for $18.00 plus shipping.

73 - Brian, AF4K

[Non-text portions of this message have been removed]

5653. Where's the Beef (Dot, actually)??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-28 00:52:02 UTC
From: Bob Szejk
Topic: 5653 Message: 5653

OK, so I'm doin' an alignment on a T-4XC and the manual says to set the slugs in the tuning cans to certain heights in accordance with the "dot" color. I see NO dot, but the slug heights I measure tell me I should see a red dot somewhere. I'm guessing there's no dot and it's just WAY out of alignment. If the dot is there, where would it be on the can (L7, L6 etc)? Sorry, I don't have the manual handy right now, but I'm sure you guys know what I'm referring to. THANKS! - Bob

5654. Re: [DrakeRadio] Where's the Beef (Dot, actually)??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-28 19:34:47 UTC
From: Garey Barrell
Topic: 5653 Message: 5654

Bob -

I don't think I've seen one with dots..... And I've looked at a lot of T-4XCs! I would expect
it to be a dot of paint on top of the can. Seems like I have seen more than a couple with a color
on top of the slug.? In any event, unless the glyptal Drake used to set them originally is broken,
there IS NO NEED to adjust the individual slugs, just the RF TUNE calibration for the entire rack.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Bob Szejk wrote:
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>

5655. Re: [DrakeRadio] Where's the Beef (Dot, actually)??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-28 23:45:59 UTC
From: Jim Wilhite
Topic: 5653 Message: 5655

Could the dot be on the base of the can containing the slug? That is where I have always seen them.

Jim/W5JO

Bob -

I don't think I've seen one with dots..... And I've looked at a lot of T-4XCs! I would expect
it to be a dot of paint on top of the can. Seems like I have seen more than a couple with a color
on top of the slug.? In any event, unless the glyptal Drake used to set them originally is broken,
there IS NO NEED to adjust the individual slugs, just the RF TUNE calibration for the entire rack.

73, Garey - K4OAH
Glen Allen, VA

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Bob Szejk wrote:
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>

[Non-text portions of this message have been removed]

5656. Re: Where's the Beef (Dot, actually)??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-07-31 16:10:27 UTC
From: Bob Szejk
Topic: 5653 Message: 5656

Yeah, NO sign of any dots. I'll just align it to the no dot/white dot specs. Thanks again, Bob
--- In DrakeRadio@yahoogroups.com, Jim Wilhite <w5jpw@...> wrote:
>
> Could the dot be on the base of the can containing the slug?Â That is where I have always seen them.
> Â
> Jim/W5JO
>
> Â
>
> Bob -
>
> I don't think I've seen one with dots..... And I've looked at a lot of T-4XCs! I would expect
> it to be a dot of paint on top of the can. Seems like I have seen more than a couple with a color
> on top of the slug.? In any event, unless the glyptal Drake used to set them originally is broken,
> there IS NO NEED to adjust the individual slugs, just the RF TUNE calibration for the entire rack.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Bob Szejk wrote:
> > OK, so I'm doin' an alignment on a T-4XC and the manual says to set the slugs in the tuning cans to certain heights in accordance with the "dot" color. I see NO dot, but the slug heights I measure tell me I should see a red dot somewhere. I'm guessing there's no dot and it's just WAY out of alignment. If the dot is there, where would it be on the can (L7, L6 etc)? Sorry, I don't have the manual handy right now, but I'm sure you guys know what I'm referring to. THANKS! - Bob
> >
>
>
>
> [Non-text portions of this message have been removed]
>

5657. Wanted: S-Meter for 2A, 2B, 2C, R4, R4A or R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-01 21:15:42 UTC
From: wb2hmg
Topic: 5657 Message: 5657

I'm looking for a good, working S-meter from a Drake 2A, 2B, 2C, R4, R4A or R-4B.

If you have one you can part with, please let me know your price.

Thank you.

Frank
W2FAL

5658. Re: TR-4C low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-02 15:29:17 UTC
From: tjb813
Topic: 5650 Message: 5658

Check the hetrodyne oscillator alignment. The HEt oscillator is not used on 80 and 20. Follow the instructions in the manual.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Steve -
>
> I would try swapping V3 and V4 just as a check. If no improvement, I would next measure DC voltages
> on V1, V3 and V4. Use a VTVM if possible on the Grids of these stages, with the 1M resistor at the
> probe tip. If not, stick a 1M on the end of your DMM and scale the readings to account for it.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> w1kilofoxtrot wrote:
> > Just a quick sanity check before I go nuts. Is it possible, or even likely, that V4, the TX mixer, is soft, since I only get good output on 80 and 20? I've gone through and peaked the TX chain as recommended. Yes, I know it's more likely V1 or V3 are at fault, since they form the heterodyne/PTO chain, but I've replaced tubes there to no significant effect.
> >
> > Have I taken leave of my senses?
> >
> > 73,
> > Steve
> > W1KF
> >
>

5659. Re: TR-4C low output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-03 00:45:26 UTC
From: w1kilofoxtrot
Topic: 5650 Message: 5659

Did that, actually, though I described it as 'peaking the TX chain'. Did not seem to make much difference.

And yes, I understand the nature of the heterodyne oscillator, which is why I mentioned checking V1 and V3. Again, not much help.

I've ordered new crystals, since at least one is way off, and may be part of the problem. Will report back once they get here...

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "tjb813" <tjb813@...> wrote:
>
> Check the hetrodyne oscillator alignment. The HEt oscillator is not used on 80 and 20. Follow the instructions in the manual.
>
>
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Steve -
> >
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> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> > and TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > w1kilofoxtrot wrote:
> > > Just a quick sanity check before I go nuts. Is it possible, or even likely, that V4, the TX mixer, is soft, since I only get good output on 80 and 20? I've gone through and peaked the TX chain as recommended. Yes, I know it's more likely V1 or V3 are at fault, since they form the heterodyne/PTO chain, but I've replaced tubes there to no significant effect.

> > >
> > > Have I taken leave of my senses?
> > >
> > > 73,
> > > Steve
> > > W1KF
> > >
> >
>

5660. T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 07:31:33 UTC
From: Victor
Topic: 606 Message: 5660

Hello all
Have a problem with a T-4XC. In the 'tune' position the gain control works OK but on transmit with key down I get full power out even when the gain control is fully counter clockwise and the gain control has no effect - up or down.
Would welcome suggestions.
Cheers
Vic
G4JSS

5661. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 13:50:09 UTC
From: Garey Barrell
Topic: 606 Message: 5661

Vic -

Check the ground and continuity on R105 (Front section of GAIN control), and R106, and associated
contacts on S1D(r) (MODE switch). Voltage on the pin of T14 with the coax center conductor connected to it should vary with the GAIN control from 0 to minus ~1.5 VDC.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Victor wrote:
> Hello all
> Have a problem with a T-4XC. In the 'tune' position the gain control works OK but on transmit with key down I get full power out even when the gain control is fully counter clockwise and the gain control has no effect - up or down.
> Would welcome suggestions.
> Cheers
> Vic
> G4JSS
>

5662. Re: TR-4C low output, follow-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 14:40:45 UTC
From: w1kilofoxtrot
Topic: 5650 Message: 5662

Well, I decided to re-do the alignment, start to finish, after I installed the new crystals. The combination of new rocks and the alignment seems to have done the trick. I'll try a few CQs and see if I can prove its working!

Thanks to all for the suggestions.

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "w1kilofoxtrot" <w1kf@...> wrote:
>
> Did that, actually, though I described it as 'peaking the TX chain'. Did not seem to make much difference.
>
> And yes, I understand the nature of the heterodyne oscillator, which is why I mentioned checking V1 and V3. Again, not much help.
>
> I've ordered new crystals, since at least one is way off, and may be part of the problem. Will report back once they get here...
>
> 73,
> Steve
> W1KF
>
> --- In DrakeRadio@yahoogroups.com, "tjb813" <tjb813@> wrote:
> >
> > Check the hetrodyne oscillator alignment. The HEt oscillator is not used on 80 and 20. Follow the instructions in the manual.
> >
> >
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> > >
> > > Steve -
> > >
> > > I would try swapping V3 and V4 just as a check. If no improvement, I would next measure DC voltages
> > > on V1, V3 and V4. Use a VTVM if possible on the Grids of these stages, with the 1M resistor at the
> > > probe tip. If not, stick a 1M on the end of your DMM and scale the readings to account for it.
> > >
> > > 73, Garey - K4OAH
> > > Glen Allen, VA

> > >
> > > Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> > > and TR-4/C Service Supplement CDs
> > > <www.k4oah.com>
> > >
> > >
> > > w1kilofoxtrot wrote:
> > > > Just a quick sanity check before I go nuts. Is it possible, or even likely, that V4, the TX mixer, is soft, since I only get good output on 80 and 20? I've gone through and peaked the TX chain as recommended. Yes, I know it's more likely V1 or V3 are at fault, since they form the heterodyne/PTO chain, but I've replaced tubes there to no significant effect.
> > > >
> > > > Have I taken leave of my senses?
> > > >
> > > > 73,
> > > > Steve
> > > > W1KF
> > > >
> > >
> >
>

5663. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 21:23:17 UTC
From: Garey Barrell
Topic: 993 Message: 5663

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, A, B and C
Lines, 2-C / 2-NT and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

All of you who asked for the R-4A/T-4X and 2-C/2-NT, WHERE ARE YOU??

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

_____
Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

5664. T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 22:44:24 UTC
From: MarkB
Topic: 5664 Message: 5664

HI Group I AM doing the fan mod on my T-4XB , Should I Have it sucking or blowing in to the rig????
Thanks Mark VK2MTB

5665. Re: [DrakeRadio] T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 23:16:45 UTC
From: Richard Knoppow
Topic: 5664 Message: 5665

----- Original Message -----
From: "MarkB" <markandlou74@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, August 04, 2011 3:44 PM
Subject: [DrakeRadio] T-4XB Fan Mod

> HI Group I AM doing the fan mod on my T-4XB , Should I
> Have it sucking or blowing in to the rig????
> Thanks Mark VK2MTB
>
I think its better to suck the air out so that you are
not blowing hot air all over the chassis.
I made a very simple arrangement, an AC fan with guard
grills on it and self-stick foam weather stipping from the
hardware store around the periphery. it just sits on top of
the final cage. Keeps the entire chassis quite cool. BTW
this same arrangement works fine on the R4B where I put the
fan over the transformer. I've also made one for my TR-4.
I get the fans locally from All Electronics, they are
also on the web. They are cheap and they have the grills. I
wire them with plain lamp wire with shrink tubing insulation
at the terminals. I use in-line snap switches so that I can
turn the thing on and off conveniently. The particular fans
I got are not noisy. There are ways of slowing down the
noisier ones. The fan does not have to move a great volume
of air to adequately cool the finals and chassis.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5666. Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 23:22:06 UTC
From: w1kilofoxtrot
Topic: 5664 Message: 5666

My TR-4C has two 4 inch fans on top of the unit. One is directly over the finals, the other centered over the rest. They are 220v, so they are mostly silent, but keep the unit quite cool. They suck air out and blow it straight up, following natural convection. No guards, since they run so slowly...

73,
Steve
W1KF

--- In DrakeRadio@yahoogroups.com, "Richard Knoppow" <1oldlens1@...> wrote:
>
>
> ----- Original Message -----
> From: "MarkB" <markandlou74@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Thursday, August 04, 2011 3:44 PM
> Subject: [DrakeRadio] T-4XB Fan Mod
>
>
> > HI Group I AM doing the fan mod on my T-4XB , Should I
> > Have it sucking or blowing in to the rig????
> > Thanks Mark VK2MTB
> >
> I think its better to suck the air out so that you are
> not blowing hot air all over the chassis.
> I made a very simple arrangement, an AC fan with guard
> grills on it and self-stick foam weather stipping from the
> hardware store around the periphery. it just sits on top of
> the final cage. Keeps the entire chassis quite cool. BTW
> this same arrangement works fine on the R4B where I put the
> fan over the transformer. I've also made one for my TR-4.
> I get the fans locally from All Electronics, they are
> also on the web. They are cheap and they have the grills. I
> wire them with plain lamp wire with shrink tubing insulation
> at the terminals. I use in-line snap switches so that I can
> turn the thing on and off conveniently. The particular fans
> I got are not noisy. There are ways of slowing down the
> noisier ones. The fan does not have to move a great volume
> of air to adequately cool the finals and chassis.
>
>
> --
> Richard Knoppow
> Los Angeles
> WB6KBL

> dickburk@...
>

5667. Re: [DrakeRadio] T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 00:37:40 UTC
From: Donnie
Topic: 5664 Message: 5667

Mark:
Personally I have always preferred having the fan pulling the hot air out rather than blowing the hot air on through the inside of the unit. That always made more sense to me. I found that using just a very small cpu fan is more than adequate to get the job done.

Hope this helps!
Regards, Donnie

www.2bRadioParts.com
Sent by a Droid X
On Aug 4, 2011 6:44 PM, "MarkB" <markandlou74@...> wrote:

[Non-text portions of this message have been removed]

5668. Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-04 23:16:03 UTC
From: Aaron Lamb
Topic: 5664 Message: 5668

You want to be sucking air out. Blowing air in will only dirty the radio up very quickly which will also act as an insulator to trap even more heat in.

I haven't done the mods to my rigs yet, but I'm told which makes sense, to mount it directly above the PA cage. I have also seen them done on the back of the cage as well which doesn't look so ugly but not as effective as being mounted on the top.

Aaron
KV9L

[Non-text portions of this message have been removed]

5669. Re: [DrakeRadio] T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 02:09:25 UTC
From: Garey Barrell
Topic: 5664 Message: 5669

Mark -

A small fan blowing air OUT the back of the PA cage works just fine. A silent computer fan is
great. It doesn't take much, just a gentle fan to get the hot air away from the area. Top is ok,
but requires a higher shelf above the radio, plus some clearance to allow the air to escape.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

MarkB wrote:
> HI Group I AM doing the fan mod on my T-4XB , Should I Have it sucking or blowing in to the rig????
> Thanks Mark VK2MTB
>
>

5670. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 02:40:53 UTC
From: Jim Wilhite
Topic: 5664 Message: 5670

Sucking the air over the parts that are hot is the best way in this case. However I suggest that once per year you remove the radio from the case and open the final cage to clean inside it. Remove the tubes, then use a soft brush and denautred alcohol to clean the tube sockets and surrounding parts. Clean anything that has evidence of dust build up.

Denatured alcohol with not leave residue or harm parts but don't use any other chemicals because they can. Any radio you use frequently should be cleaned fan or no. Dirt around high voltage can eventually cause trouble and dust or dirt build will retain heat. Drake engineers designed the equipment to work in most any conditions but cleaning one will prolong its correct operation.

Any time you move air, you will also move small dirt particles and other residue which will collect in cracks and crevices around the path of the air. Little dust devils will also form in places that may eventually cause trouble. If you are serious about your equipment and want it to last a long time, then clean it once a year. That schedule will help you remember.

Jim, W5JO

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.

[Non-text portions of this message have been removed]

5671. Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 08:20:43 UTC
From: MarkB
Topic: 5664 Message: 5671

OK Thanks to all, I have a 80mm 12 volt fan I got from Jaycar electronics it will be very easy to mount as it has rubber tabs that line up with the holes on the PA Cage,you just pull them through the holes and they lock on !!!!!!!!

OK on the denatured alcohol { methylated spirits } for cleaning AS I am cleaning it at moment , There is a lot of Greasy hairy sh@#%&**T in PA cage and I am having a hard time cleaning it off ,
The denatured alcohol is not working that well, Maybe some hot soapy water first followed by the denatured alcohol

The Rig works OK but I felt it was not happy in tune up ,I checked the cathode , screen , R26 and meter shunt resistors some were way off, SO just waiting for new one to come
Also for both T-4XB and R-4B I got a capacitor kit from Hayseed Hamfest Co, Grate product and Good to deal with A++++++
I will let the Group now how IT all went after it all goes together with an alignment
73s Mark VK2MTB

5672. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 15:52:24 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5672

Hi Gary
Thanks for reply. Have checked R105 and R106 and they are OK except that 106 is a bit low. Measured from pin 2 V9 to earth and got a
reading of 0-511k rotating R105 from FCC to FC. Haven't checked the v on T14 yet. Hit another problem I have no output at all now. I guess
I must have disturbed something whilst I was fishing around with the Tx upside down. Makes life interesting don't it.

Will try and get that sorted and take it from there.

Cheers

Vic

G4JSS

5673. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 18:04:32 UTC
From: Garey Barrell
Topic: 606 Message: 5673

Vic -

First something is wrong here. There should be 1 Meg from Pin 2 of V9 to ground, unaffected by any
control.... You're not measuring what you think you are measuring!! :-) An ohmmeter from the
'top' of R105 to ground should read from 0 to 15k maximum.

Otherwise, sounds like a ground problem. Have you been through with a screwdriver and tightened all
the ground lug hardware?? That simple, though tedious process can do wonders for 'intermittent'
problems.

The Carrier Oscillator feeds into the Balanced Mixer at 5.645 MHz. The for TUNE MODE, MIC audio
comes into the BM via that coax you're going to check on T14. The MIC amp is converted to an audio
oscillator ~ 1 kHz and the resultant tone goes into the BM for TUNE, like whistling into the mic.
On CW there is no audio, and the same cable is used to feed a DC voltage to the balanced modulator
diodes to unbalance it, and allow the 5.645 MHz CO to pass through. Either case the output goes to
the 1st Mixer where the PreMixer signal comes in at 12.645 MHz (for 7.001 MHz output).

So if you get it back to where you have operation in the TUNE mode, the only difference for CW is
that the 1 kHz tone is replaced by a DC voltage from the R105/106 divider arrangement. Comes
through the same coax as the audio tone. On AM MODE, a fixed DC voltage goes through the same coax
to unbalance the BM just enough to generate the AM reduced carrier. So if one mode works and
another doesn't, you can figure out where to start searching!!

First, check all those ground connections!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Gary

> Thanks for reply. Have checked R105 and R106 and they are OK except that 106 is a bit low. Measured from pin 2 V9 to earth and got a
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> I must have disturbed something whilst I was fishing around with the Tx upside down. Makes life interesting don't it.
>
> Will try and get that sorted and take it from there.
>
> Cheers
>
> Vic
>
> G4JSS
>
>

5674. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:14:36 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5674

Gary
Thanks for info. Yes there is something wrong - my eyes!! It was pin 7 not pin 2.
Will carry on along the lines you have suggested.
Cheers
Vic

5675. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:22:03 UTC
From: Garey Barrell
Topic: 606 Message: 5675

Vic -

OK. Still wrong. Pin 7 to ground is R88, the AF GAIN control. You want R105 the XMIT GAIN control which is the 'other' section of the dual GAIN control. One end is grounded, the other end
should measure 0-15k ohms to ground with rotation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Gary
> Thanks for info. Yes there is something wrong - my eyes!! It was pin 7 not pin 2.
> Will carry on along the lines you have suggested.
> Cheers
> Vic
>

5676. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:24:57 UTC
From: Richard Knoppow
Topic: 5664 Message: 5676

----- Original Message -----
From: "MarkB" <markandlou74@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, August 05, 2011 1:20 AM
Subject: [DrakeRadio] Re: T-4XB Fan Mod

>
>
>
>
>
>
>
>
> OK Thanks to all, I have a 80mm 12 volt fan I got from
> Jaycar electronics it will be very easy to mount as it has
> rubber tabs that line up with the holes on the PA Cage,you
> just pull them through the holes and they lock on !!!!!!!!
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> OK on the denatured alcohol { methylated spirits } for
> cleaning AS I am cleaning it at moment , There is a lot of
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> time cleaning it off ,
> The denatured alcohol is not working that well, Maybe
> some hot soapy water first followed by the denatured
> alcohol
>
> The Rig works OK but I felt it was not happy in tune up ,I
> checked the cathode , screen , R26 and meter shunt
> resistors some were way off, SO just waiting for new one
> to come
> Also for both T-4XB and R-4B I got a capacitor kit from
> Hayseed Hamfest Co, Grate product and Good to deal with
> A++++++
> I will let the Group now how IT all went after it all goes
> together with an alignment
> 73s Mark VK2MTB
>
I don't like using denatured alcohol, its ethyl
(drinkable) alcohol with something in it to make it
undrinkable. You never know what the denaturant is. I think
its often acetone. The problem is that the denaturant can be
a solvent for things the alcohol by itself is not, such as
paint.
Isopropyl alcohol (isopropanol) is easily available in

concentrations up to 99+%. It is a fairly safe solvent
although it WILL affect some paints and cellulose based
plastics (like celluloid).
Probably the safest cleaner to use is hand dishwashing
detergent in warm water. For gunk let it soak in for a time.
If its not effective try a commercial cleaner like Fantastic
or Formula-409. These can affect some paints so check using
a cotton swab. If those are not effective I would suggest
trying Kerosene which is, again, fairly safe for many paints
and is a good solvent. After that you have a problem because
more powerful solvents like naphtha, acetone, MEK, all will
dissolve many paints and plastics. Since the cage is
unpainted you have some choice but I would start with the
dishwashing detergent.
Its also possible that a solution of bleach or ammonia
may work depending on what the gunk is.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5677. Re: cleaning

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:38:58 UTC
From: William Houghton
Topic: 5664 Message: 5677

I've had pretty good success with Scrubbing Bubbles, which I found at my local grocery store. It does a nice job of cleaning out the dust dirt and grime. I haven't used it on Drakes but I did use it on a Swan 500CX chassis. Spray it on and leave it to soak for about 15 mins then rinse off. I used a spray bottle filled with water to rinse the chassis. Make sure you spray and rinse the tube socket pins. I used a shop vac to vacuum the rinse water out of the tube socket pins. I then treated the tube socket pins with DeOxit. That process worked fine for me.

From: Richard Knoppow <1oldlens1@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, August 5, 2011 12:24:57 PM
Subject: Re: [DrakeRadio] Re: T-4XB Fan Mod

----- Original Message -----
From: "MarkB" <markandlou74@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, August 05, 2011 1:20 AM
Subject: [DrakeRadio] Re: T-4XB Fan Mod

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>
> OK Thanks to all, I have a 80mm 12 volt fan I got from
> Jaycar electronics it will be very easy to mount as it has
> rubber tabs that line up with the holes on the PA Cage,you
> just pull them through the holes and they lock on !!!!!!!!
>
> OK on the denatured alcohol { methylated spirits } for
> cleaning AS I am cleaning it at moment , There is a lot of
> Greasy hairy sh@#%&**T in PA cage and I am having a hard
> time cleaning it off ,
> The denatured alcohol is not working that well, Maybe
> some hot soapy water first followed by the denatured
> alcohol
>
> The Rig works OK but I felt it was not happy in tune up ,I
> checked the cathode , screen , R26 and meter shunt
> resistors some were way off, SO just waiting for new one
> to come

> Also for both T-4XB and R-4B I got a capacitor kit from
> Hayseed Hamfest Co, Grate product and Good to deal with
> A++++++
> I will let the Group now how IT all went after it all goes
> together with an alignment
> 73s Mark VK2MTB
>
I don't like using denatured alcohol, its ethyl
(drinkable) alcohol with something in it to make it
undrinkable. You never know what the denaturant is. I think
its often acetone. The problem is that the denaturant can be
a solvent for things the alcohol by itself is not, such as
paint.
Isopropyl alcohol (isopropanol) is easily available in
concentrations up to 99+%. It is a fairly safe solvent
although it WILL affect some paints and cellulose based
plastics (like celluloid).
Probably the safest cleaner to use is hand dishwashing
detergent in warm water. For gunk let it soak in for a time.
If its not effective try a commercial cleaner like Fantastic
or Formula-409. These can affect some paints so check using
a cotton swab. If those are not effective I would suggest
trying Kerosene which is, again, fairly safe for many paints
and is a good solvent. After that you have a problem because
more powerful solvents like naphtha, acetone, MEK, all will
dissolve many paints and plastics. Since the cage is
unpainted you have some choice but I would start with the
dishwashing detergent.
Its also possible that a solution of bleach or ammonia
may work depending on what the gunk is.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

5678. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:41:16 UTC
From: Bob Macklin
Topic: 5664 Message: 5678

I have used Formula 409 on some Heathkit panels and chassis and had the lettering come off.

Bob Macklin
K5MYJ
Seattle, Wa.
"Real Radios Glow In The Dark"

----- Original Message -----
From: Richard Knoppow
To: DrakeRadio@yahoogroups.com
Sent: Friday, August 05, 2011 12:24 PM
Subject: Re: [DrakeRadio] Re: T-4XB Fan Mod

----- Original Message -----
From: "MarkB" <markandlou74@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, August 05, 2011 1:20 AM
Subject: [DrakeRadio] Re: T-4XB Fan Mod

>
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>
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>
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> OK Thanks to all, I have a 80mm 12 volt fan I got from
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> The denatured alcohol is not working that well, Maybe
> some hot soapy water first followed by the denatured
> alcohol
>
> The Rig works OK but I felt it was not happy in tune up ,I
> checked the cathode , screen , R26 and meter shunt
> resistors some were way off, SO just waiting for new one
> to come
> Also for both T-4XB and R-4B I got a capacitor kit from
> Hayseed Hamfest Co, Grate product and Good to deal with

> A++++++
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> together with an alignment
> 73s Mark VK2MTB
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Isopropyl alcohol (isopropanol) is easily available in concentrations up to 99+%. It is a fairly safe solvent although it WILL affect some paints and cellulose based plastics (like celluloid).
Probably the safest cleaner to use is hand dishwashing detergent in warm water. For gunk let it soak in for a time. If its not effective try a commercial cleaner like Fantastic or Formula-409. These can affect some paints so check using a cotton swab. If those are not effective I would suggest trying Kerosene which is, again, fairly safe for many paints and is a good solvent. After that you have a problem because more powerful solvents like naphtha, acetone, MEK, all will dissolve many paints and plastics. Since the cage is unpainted you have some choice but I would start with the dishwashing detergent.
Its also possible that a solution of bleach or ammonia may work depending on what the gunk is.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

[Non-text portions of this message have been removed]

5679. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 19:41:59 UTC
From: Garey Barrell
Topic: 606 Message: 5679

Vic -

Now I'm confusing the issue!!! :-) The CENTER terminal of the FRONT section of the GAIN control
should read 0 - 15k with rotation. . The TOP terminal of this same pot should read about 15k -
390k with rotation.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Gary
> Thanks for info. Yes there is something wrong - my eyes!! It was pin 7 not pin 2.
> Will carry on along the lines you have suggested.
> Cheers
> Vic
>

5680. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 20:03:44 UTC
From: Don Cunningham
Topic: 5664 Message: 5680

Mark,
Do you have the Jayco part number so we can look at it??
Thanks,
Don,
WB5HAK

[Non-text portions of this message have been removed]

5681. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 21:03:35 UTC
From: Richard Knoppow
Topic: 5664 Message: 5681

----- Original Message -----
From: "Bob Macklin" <macklinbob@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, August 05, 2011 12:41 PM
Subject: Re: [DrakeRadio] Re: T-4XB Fan Mod

>I have used Formula 409 on some Heathkit panels and chassis
>and had the lettering come off.
>
> Bob Macklin
> K5MYJ
> Seattle, Wa.
>
Something similar using Fantastic, which I think is
pretty much the same thing. Vibroplex keys have stamped
labels on the bottom, these cleaners will take it right off.
Not sure that plain water wouldn't. I don't know what
Heathkit used but they may be decals of some sort which will
either dissolve in water or be wiped off. Nothing beats
engraving but it was pretty expensive and even Collins
didn't engrave panels.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5682. Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 21:55:02 UTC
From: MarkB
Topic: 5664 Message: 5682

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Mark,
> Do you have the Jayco part number so we can look at it??
> Thanks,
> Don,
> WB5HAK
>
> [Non-text portions of this message have been removed]
>

OK Don Jaycar Part number CAT. NO. YX2580
and here is the link http://www.jaycar.com.au

IT has rubber mounting plugs in the kit , I hooked it up to 12 volt and it runs very quiet and smooth !!!!!!!!!!!!
73s Mark VK2MTB

5683. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 22:04:04 UTC
From: Joe
Topic: 5664 Message: 5683

I have been following this thread was a good bit of interest, and that presents a question....

My B's run hotter 'n hell.....and the VFO doesn't stop making me run until the boxes get good and warm (Read: Almost too hot to leave one's hand on the cases!)

How much will cooling the 2 components down, with fans, affect VFO stabilization? After all, the B's (at least) were made to run hot.

Garry??

Jest curious!

Joe Wolfe
WA6RKN
Reno, Nevada

[Non-text portions of this message have been removed]

5684. Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-05 22:35:30 UTC
From: MarkB
Topic: 5664 Message: 5684

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> I have been following this thread was a good bit of interest, and that presents a question....
>
> My B's run hotter 'n hell.....and the VFO doesn't stop making me run until the boxes get good and warm (Read: Almost too hot to leave one's hand on the cases!)
>
> How much will cooling the 2 components down, with fans, affect VFO stabilization? After all, the B's (at least) were made to run hot.
>
> Garry??
>
> Jest curious!
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
>
> [Non-text portions of this message have been removed]
>

Jow The temperature should stabilise after a given time and should not affect the VFO, I no with my kenwood ts830s after 30 minutes warm up it is very stable
73s mark VK2MTB

5685. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-06 00:46:39 UTC
From: Don Cunningham
Topic: 5664 Message: 5685

Thanks, Mark. I thought that might be it when I was looking over the site.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5686. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-06 01:10:46 UTC
From: Jim Wilhite
Topic: 5664 Message: 5686

Water is the absolute worst solvent you can choose. First you never know what minerals are in your water. If you must use water, then use deionized. I never suggest water because most people just go to the tap and get it. Around here tap water will leave all sorts of calcium on any surface where it evaporates. Not good for anything especially electronics that contain transformers with cardboard tubes for coil forms. I always have wondered how long equipment lasts after some people run them through a dishwasher.

We don't buy Fantastic here, it irritates our nasal passages, we use 409 which has the warning, "hazardous to humans and domestic animals". What is that? I know it doesn't contain Phosphorus, the label says so. The label also says if you get it on your skin, rinse for 15-20 minutes with water. What is this? I won't use that on my electronic equipment.

Of course if you use any solvent , you should follow good practices. Since I know what is in denatured alcohol, I choose it not some concoction I don't know. Never use any solvent on a painted surface nor on one containing lettering. That is not the thing to do. Always check what you choose on an unseen part of the equipment before you go soak it. Even alcohol. The best practice is read what the contents are of any chemical and follow the common sense approach.

Recently the EPA banned Phosphorus from detergents. I believe you will find they won't clean as well as they should.

Jim/W5JO

>
I don't like using denatured alcohol, its ethyl
(drinkable) alcohol with something in it to make it
undrinkable. You never know what the denaturant is. I think
its often acetone. The problem is that the denaturant can be
a solvent for things the alcohol by itself is not, such as
paint.
Isopropyl alcohol (isopropanol) is easily available in
concentrations up to 99+%. It is a fairly safe solvent
although it WILL affect some paints and cellulose based
plastics (like celluloid).
Probably the safest cleaner to use is hand dishwashing
detergent in warm water. For gunk let it soak in for a time.
If its not effective try a commercial cleaner like Fantastic
or Formula-409. These can affect some paints so check using
a cotton swab. If those are not effective I would suggest
trying Kerosene which is, again, fairly safe for many paints
and is a good solvent. After that you have a problem because
more powerful solvents like naphtha, acetone, MEK, all will
dissolve many paints and plastics. Since the cage is
unpainted you have some choice but I would start with the

dishwashing detergent.
Its also possible that a solution of bleach or ammonia
may work depending on what the gunk is.

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[Non-text portions of this message have been removed]

5687. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-06 02:01:55 UTC
From: Garey Barrell
Topic: 5664 Message: 5687

Joe -

They DO run hot, especially if under a shelf and/or up against a back panel where the heat can't escape.

Yes, after a long transmission the area over the PA cage can be too hot to touch comfortably. A
very small fan will fix that to where it's almost room temperature. The R-4Bs major source of heat
aside from the tubes is the power transformer. It too can get too hot to touch comfortably after an
hour or so, again especially if it's enclosed at all.

All that aside, I ran these units in RTTY service back in the late 60's, with a small fan behind
each sucking air out of the cabinet and away from the area. A full power (100+ Watts) for 30
minutes keydown was routine. There were three sets, and they all ran 24/7. Aside from the expected
PA softening, (I replaced them when they dropped to 100W output on 20M,) after about two years of
this service, I had only ONE failure, a 12BY7 filament that opened. NO receiver failures, and only
the ONE transmitter failure.

So yes, they DO run hot. It's best for longevity if you can blow the hot air out and away, but I
know of many that ran without fans in normal use for many years. The only heat damaged units were
receivers that lost filter caps and the fuse had been replaced with a piece of copper wire, or
severe abuse of the PA by mistuning, bad filter caps and/or BIAS supply failure, sometimes even when
the proper fuse was in the AC-4.

As for stability, blowing air OUT and away will help stabilize the PTO by keeping a more constant
internal temperature after a short warm-up period, say 30 minutes. Blowing air IN, which some
insist on doing, only forces the hot air, especially in the transmitter, back over the PTO,
including the temperature changes from standby to transmit and back. Definitely the wrong idea!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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MarkB wrote:
>
> --- In DrakeRadio@yahoogroups.com, Joe<WA6RKN@...> wrote:
>> I have been following this thread was a good bit of interest, and that presents a question....
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>> Jest curious!
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>> Joe Wolfe
>> WA6RKN
>> Reno, Nevada
>>

5688. Re: [DrakeRadio] Re: T-4XB Fan Mod

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-06 03:45:33 UTC
From: Richard Knoppow
Topic: 5664 Message: 5688

----- Original Message -----
From: "Jim Wilhite" <w5jpw@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Friday, August 05, 2011 6:10 PM
Subject: Re: [DrakeRadio] Re: T-4XB Fan Mod

Water is the absolute worst solvent you can choose. First you never know what minerals are in your water. If you must use water, then use deionized. I never suggest water because most people just go to the tap and get it. Around here tap water will leave all sorts of calcium on any surface where it evaporates. Not good for anything especially electronics that contain transformers with cardboard tubes for coil forms. I always have wondered how long equipment lasts after some people run them through a dishwasher.

We don't buy Fantastic here, it irritates our nasal passages, we use 409 which has the warning, "hazardous to humans and domestic animals". What is that? I know it doesn't contain Phosphorus, the label says so. The label also says if you get it on your skin, rinse for 15-20 minutes with water. What is this? I won't use that on my electronic equipment.

Of course if you use any solvent , you should follow good practices. Since I know what is in denatured alcohol, I choose it not some concoction I don't know. Never use any solvent on a painted surface nor on one containing lettering. That is not the thing to do. Always check what you choose on an unseen part of the equipment before you go soak it. Even alcohol. The best practice is read what the contents are of any chemical and follow the common sense approach.

Recently the EPA banned Phosphorus from detergents. I believe you will find they won't clean as well as they should.

Jim/W5JO

Hard water can leave a residue if not wiped off when wet. However, there are many ways of reducing this without the extreme of deionized or triple distilled water. For one thing boiling water for about five minutes and letting cool will remove a great deal of hardness and also dissolved gasses and coagulate any organic matter which will

precipitate as the water cools. Such water is suitable for most photographic purposes. Boiling will also remove chlorine but not the chlroamine used as a modern disinfectant in place of chlorine. However, chloramines _are_ removed by a "Brita" type water filter. The combination of a Brita filter and boiling results in very pure water.

Around here we have fairly hard water. I get an assay once a year from the Los Angeles Department of Water and Power detailing exactly what is in the water.

The labels required by the EPA and others can be quite frightening, however, like MSDS they usually refer to bulk amounts and extreme conditions. Some people are more sensitive than others to the constituents but no one is recommending drinking the stuff. If its irritating, and some cleaners can be, use nitrile (not latex) gloves. That is probably a good idea anyway because any kind of soap or detergent, and most solvents can remove skin oils and moisture resulting in irritation or perhaps inflammation.

There is a good book called "The Dose Makes the Poison" by M. Alice Ottoboni. I have not tried to find it recently but an Amazon search will turn up any that are available. I think it ran to two editions, get the later one. It will give you a practical insight into the real dangers of materials that have scary MSDS.

Different solvents are selective for different things. Some paints are immune to most solvents, some will come off with soap and water. If you don't know what kind of paint you are dealing with you have to test it to make sure you won't damage it.

As far as denatured alcohol, the problem is that very often its hard to find out what the denaturant is. Denatured alcohol may NOT be safe on some materials pure ethyl alcohol is safe for because of the denaturant.

Phosphorus compounds have been frowned on for general cleaning materials for a couple of decades. The most common was tri-sodium-phosphate AKA TSP, which is still available at some hardware stores. This is a quite effective cleaner and forms of it were commonly added to laundry detergents and household cleaners. BTW, is was also used in some photographic solutions because it is a good sequestering agent for calcium and sodium carbonates found in hard water. The problem with phosphates is that when disposed of in the water system they poison fish. For more about this see:

http://www.lenntech.com/aquatic/detergents.htm

There are other sites with more but this is fairly clearly written.

If you really follow out the reasons for banning some materials for environmental or heath reasons you will find that usually the reasons are quite valid. Those who are

inconvenienced often howl about this and blame government for being outrageous but, while government can be heavy handed in enforcement most environment issues are quite valid.

One way of preventing water spotting is simply to blow the residue water off with compressed air. I think I have posted the procedure we used a Hewlett-Packard in the past but its simple so I will post again.
1, Remove any parts which could be water damaged.
2, Rinse the chassis with warm water.
3, Wash out with a solution of dishwashing detergent in a paint spray gun.
It may be helpful to scrub some surfaces with a diswashing sponge or whatever is convenient.
4, Rinse thoroughly with warm water.
5, Blow out as much residual water as possible with compressed air.
6, Bake in a slow oven. We used an electric oven at about 130F for at least 48 hours. If I could I usually left stuff in for a few days.
Usually, the equipment will dry without any spotting or other residue.
Meters and anything made of cardboard or paper must be removed.

Finally, good sense is the first requirement. Sometimes that seems to be in short supply.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5689. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-07 17:11:26 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5689

Hello again Gary
Been a rainy blustery day so had another go re the gain on the T-4XC. Hope this clears any confusion I have caused. On the top lug of the
front pot I get 15 - 401K on rotation. On the centre lug I get 0-15.3K on rotation.
I get a zero reading on the pin that the inner co-ax goes to on T14 but neither of my meters are brilliant at the bottom
end of the scale.

R106 is definitely faulty as it only records 10R.

In the tune position with the gain FCC I get the standing current reading set to just below the tick on the meter scale but if I switch to
transmit and key down I have an output around 50w with the gain still FCC. This slowly fades away and stabilizes around 40w.

Will change 106 and see how things are then.

Cheers

Vic

5690. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-07 18:18:14 UTC
From: Garey Barrell
Topic: 606 Message: 5690

Hi Vic -

OK. Better recheck R106 again... If the front section, (R105) reads 0 - 15k, then R106 is ok.

It sounds like you may have a short in the coax.. With the GAIN all the way up, you should read at
least 1 VDC on the pin of T14 (coax center conductor) in CW, and a couple of volts p-p AC in TUNE
position.

With the MODE switch OFF, measure ohms from that pin on T14. It should read 'open' or infinity in
one polarity. Then reverse the meter leads and you should see a fairly low, (two diode drops)
resistance.

It's also possible that you have an intermittent short inside T14. Those diodes have been known to
touch the shield can, making for a poor short.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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>
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>
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> transmit and key down I have an output around 50w with the gain still FCC. This slowly fades away and stabilizes around 40w.
>
> Will change 106 and see how things are then.
>
> Cheers

>
> Vic
>

5691. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-07 20:22:33 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5691

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5692. looking for am filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-07 23:46:03 UTC
From: yash@aol.com
Topic: 5692 Message: 5692

Hi
Looking for the plug in AM filter for a R4C.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5693. Re: [DrakeRadio] looking for am filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-08 01:59:29 UTC
From: amfone
Topic: 5692 Message: 5693

Have you tried the 8KC AM filter its just a resistor in the circuit where the 6 KC AM filter and or 4 KC AM filter fits.

73 Tim
WB8UHZ

From: "yash@..." <yash@...>
To: DrakeRadio@yahoogroups.com
Sent: Sunday, August 7, 2011 7:46 PM
Subject: [DrakeRadio] looking for am filter

Hi
Looking for the plug in AM filter for a R4C.
thanks
dale wt4t

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5694. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-08 17:45:09 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5694

Hi Garey
To cut a long story short, I have read and re-read R105 106 with analogue and digital meters and they are about correct.
With mode switch off the readings on the inner co-ax pin of T14 are 56.2K and with reverse polarity 49.3K. Switch on and there is no
discernible voltage on that pin in either 'Tune' or CW. You must be brassed off with this (Yorkshire expression) and I am certainly
getting that way!!

Vic

PS. Sorry about mis-spelling your name in previous Emails

5695. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-08 18:12:35 UTC
From: Garey Barrell
Topic: 606 Message: 5695

Vic -

No problem on the name, I've been fighting that spelling for 69 years!! Thanks Mom..... :-)

Those readings are still a little strange. The circuit, with the MODE switch to OFF, should read
two diode drops either way. The actual reading depends upon the meter's battery, etc., so hard to
put a definite value on it. So it seems like the coax isn't shorted, and it appears the diodes are ok.

The problem seems to be that there is NO voltage on that pin of T14 under any circumstances.

1. Do you get any output in the AM position of the MODE switch? Power on, switch from SSB to AM.
You should see increase in Plate current. If you DO see an increase, measure voltage at the pin of T14.

2. If you do NOT get Plate current in AM, then switch to TUNE and measure the voltage at the center
terminal of R105 as you rotate the GAIN control.

3. Carefully examine S1D(r) contacts and leads.

Remember... 'We do this for fun!' 'We do this for fun!' 'We do this for ....'

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
> To cut a long story short, I have read and re-read R105 106 with analogue and digital meters and they are about correct.
> With mode switch off the readings on the inner co-ax pin of T14 are 56.2K and with reverse polarity 49.3K. Switch on and there is no
> discernible voltage on that pin in either 'Tune' or CW. You must be brassed off with this (Yorkshire expression) and I am certainly
> getting that way!!
>
> Vic
>
> PS. Sorry about mis-spelling your name in previous Emails

>

5696. FS: Antique radio parts and accessories

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-10 11:30:35 UTC
From: Bry Carling
Topic: 5696 Message: 5696

FOR SALE: Collection of 38 antique radio dials, knobs and escutcheon scale plates etc.
Includes two large dials for the amateur bands, Some Collins style knobs,
black fluted knobs, chicken head knobs, a large bakelite 0 - 100 knob etc. etc.
Picture on request.
Will sell all for $25.00 plus shipping.

REDUCED: Midland SWR / Field Strength Meter - new in box.
New old stock HF swr meter in perfect condition, shows
relative power and SWR. Also a useful field strength meter for antenna
measurements. A great nostaligia piece too, for those reconstructing their
1960s novice station. Picture on request.
Now available for $15.00 plus shipping

FOR SALE: Box of 30 RF chokes. This assortment includes several 2.5 mH chokes
and others handy for building RF circuits. Two boxes of these available. Picture on
request.
Will sell these for $15.00 plus $6.00 shipping.

FOR SALE: Group of three 40m crystals, type hc6u
Frequencies - 7050, 7072, 7094 kHz
Will sell this group for $19.00 plus shipping

FOR SALE: Group of three 160m crystals, type hc6u
Frequencies - 1801, 1843, 1942 kHz
Will sell this group for $19.00 plus shipping

FOR SALE: Two Drake crystals, type hc6u
Frequencies 24.600 MHz and 31.600 MHz
Will sell this group for $19.00 plus shipping

Thanks for looking & 73 - Bry, AF4K

[Non-text portions of this message have been removed]

5697. Drake 4 Series PTOs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-11 20:46:20 UTC
From: Garey Barrell
Topic: 5697 Message: 5697

It's now official..... The Drake PTOs seem to be 'all over the map' as far as what you might find
inside the can.

I have worked on perhaps a half-dozen in 'recent' times, and ALL were different. Some were 'close'
to the schematic for what they were found in, but more were not.

Now we know that some were replaced by Drake over the years, and apparently they put in whatever
they had on hand. I just opened a PTO out of and marked R-4B, and in scoping out the circuit, the
board is closest to a late TR-4C PTO schematic! It has the output clipping diode, and most values
are comparable to the much later PTO, including the semi-conductors. It covers 500 kHz, not 600 kHz.

I understand it's possible that this is a cobble job, but the linearity and tempco are good, which
'may' be significant.

I would be very interested in any photos of any PTO PC boards that you have occasion to open,
indicating what they were take out of, model and s/n.

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

5698. RE: [DrakeRadio] Drake 4 Series PTOs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-11 21:07:05 UTC
From: Jim Chaggaris
Topic: 5697 Message: 5698

Garey,

You've truly opened up a "can of worms"!

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Thursday, August 11, 2011 3:46 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Drake 4 Series PTOs

It's now official..... The Drake PTOs seem to be 'all over the map' as far as what you might find
inside the can.

I have worked on perhaps a half-dozen in 'recent' times, and ALL were different. Some were 'close'
to the schematic for what they were found in, but more were not.

Now we know that some were replaced by Drake over the years, and apparently they put in whatever
they had on hand. I just opened a PTO out of and marked R-4B, and in scoping out the circuit, the
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covers 500 kHz, not 600 kHz.

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'may' be significant.

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indicating what they were take out of, model and s/n.

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73, Garey - K4OAH
Glen Allen, VA

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<www.k4oah.com>

[Non-text portions of this message have been removed]

5699. RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 01:26:45 UTC
From: Paul Kraemer
Topic: 5503 Message: 5699

Hello
Does anyone know exactly "what is a RP-500 receiver protector"
Lightning arrestor?
Paul K0UYA

5700. Re: [DrakeRadio] RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 02:17:25 UTC
From: Garey Barrell
Topic: 5503 Message: 5700

Paul -

It is a small box with a coax 'through' it. Inside the box there is a gas filled surge suppressor
from the center conductor to ground, seems like it's a 'C90L' don't recall for sure. The same
suppressor was added across the antenna connector of the later TR-7 and R-7. It's essentially a
calibrated spark gap that breaks down around 90 V.. Obviously it won't protect against a real hit,
but helps to bleed off charges from lightning events in the general area.

Many of the military receivers of the 50's and 60's had a neon bulb right at the antenna connector
for the same reason. I have seen them flash repeatedly if the receiver antenna is connected during
a nearby lightning storm.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Kraemer wrote:
> Hello
> Does anyone know exactly "what is a RP-500 receiver protector"
> Lightning arrestor?
> Paul K0UYA
>
>

5701. Re: [DrakeRadio] RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 02:48:09 UTC
From: Jim Shorney
Topic: 5503 Message: 5701

On Fri, 12 Aug 2011 22:17:25 -0400, Garey Barrell wrote:

>Many of the military receivers of the 50's and 60's had a neon bulb right at the antenna connector
>for the same reason. I have seen them flash repeatedly if the receiver antenna is connected during
>a nearby lightning storm.

That's a "mod" that I like to do with solid-state shortwaver receivers that come to me with shorted front end protection diodes.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5702. Re: [DrakeRadio] RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 02:48:47 UTC
From: Paul Kraemer
Topic: 5503 Message: 5702

Thanks Garey
I suspected as much but the way it is potted I could only guess
I've had it on the receiver and it doesn't seem to have any detrimental affect. No loss, no discernable other problems.
I would like to part with it. Any takers? $20 including shipping to 48 states.
Paul K0UYA

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Cc: "Paul Kraemer" <elespe@...>
Sent: Friday, August 12, 2011 9:17 PM
Subject: Re: [DrakeRadio] RP-500

> Paul -
>
> It is a small box with a coax 'through' it. Inside the box there is a gas
> filled surge suppressor
> from the center conductor to ground, seems like it's a 'C90L' don't recall
> for sure. The same
> suppressor was added across the antenna connector of the later TR-7 and
> R-7. It's essentially a
> calibrated spark gap that breaks down around 90 V.. Obviously it won't
> protect against a real hit,
> but helps to bleed off charges from lightning events in the general area.
>
> Many of the military receivers of the 50's and 60's had a neon bulb right
> at the antenna connector
> for the same reason. I have seen them flash repeatedly if the receiver
> antenna is connected during
> a nearby lightning storm.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Paul Kraemer wrote:
>> Hello
>> Does anyone know exactly "what is a RP-500 receiver protector"
>> Lightning arrestor?

>> Paul K0UYA
>>
>>
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> Yahoo! Groups Links
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5703. Re: [DrakeRadio] RP-500

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 05:20:10 UTC
From: Joe
Topic: 5503 Message: 5703

Sounds a little like a Cushcraft LAC4H I have...won't protect against a direct hit, but sure protects from all the 'static' electricity floating around during a thunderstorm!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] RP-500

> Paul -
>
> It is a small box with a coax 'through' it. Inside the box there is a gas
> filled surge suppressor
> from the center conductor to ground, seems like it's a 'C90L' don't recall
> for sure. The same

5704. Re: Drake 4 Series PTOs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 18:20:29 UTC
From: arsnf7z
Topic: 5697 Message: 5704

Garey,

I am currently in Paris returning home next week. I have six PTO's taken apart that I will gladly take photos and submit them. The genesis of my investigations was the discovery that the 'metal geared' PTO's have an entirely new coil winding that cannot be matched to 'plastic geared' drives. The many schematics from Drake that I have tend to incorporate subtle differences and so far I have found three different circuit-board layouts. By coincidence, I am sure, the most stable of all the PTO's have come out of the RV4C's that I have, which is contrary to PTO mythology. The most prevalent fault causing drift out of specification, was due to moisture absorbed in the coil form causing the geometry to change (slightly) with temperature, or poorly applied varnish around the coil. Surprisingly, I never found a bad NPO capacitor or semiconductor.

NF7Z

5705. Re: [DrakeRadio] Re: Drake 4 Series PTOs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-13 19:19:13 UTC
From: Garey Barrell
Topic: 5697 Message: 5705

Dan -

Cool! That will help a lot. Yes, there are quite a few variations of the 'same' PTO! :-)

Aside from the semiconductor variations, there are at least three varieties, not counting the
TR-4CwRIT/R-7/TR-7/RV-7 version.

The coil is critical, and your observations match mine. MOST that I have found have been 'well
coated' and stable. I've never had to open a metal-gear version, interesting since the gearing only
drives the dial, not the PTO slug.

My understanding is that the highest output PTOs were reserved for the RV-4/Cs to allow for the
cable loss. Their apparent stability may just be a result of fewer 'hot-cold' soaks over the last
40 years......

I've never found a bad t/c cap, but am beginning to find bad Dur-Micas (3000 pF), probably as a
result of 'silver creep'. Again, ONLY 40 years.

Most common has been the Zener getting the 'jitters', and a few cases of 'FET jitters', primarily
in the TIS34 and MPF-102...

I look forward to seeing your data!!

73, Garey - K4OAH
Glen Allen, VA

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<www.k4oah.com>

arsnf7z wrote:
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>
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specification, was due to moisture absorbed in the coil form causing the geometry to change (slightly) with temperature, or poorly applied varnish around the coil. Surprisingly, I never found a bad NPO capacitor or semiconductor.
>
> NF7Z
>
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> Yahoo! Groups Links
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5706. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-14 16:52:22 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5706

Hello again
Re gain problems on T-4XC and your last email. In a.m. mode there is an increase in idling current from just below the tick to .1 on the
meter - in tune position.
In a.m. position get .5v on inner co-ax pin on T14. No voltage in other modes.
On centre lug of R105 no readings at all in any mode.
Re S1(d) it looked a little bit tarnished so gave it a mild treatment of deoxit - still no better. I hope I am correct in
placing S1(d) as the wafer furthest away from the front panel!!

Cheers

Vic

5707. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-14 18:21:28 UTC
From: Garey Barrell
Topic: 606 Message: 5707

Vic -

OK. The problem has to be R104, R105 or R106, or associated wiring, switch contacts, etc.

For AM. the +250V goes through R103 (1M) to a switch tag on S1D(r). The wiper of that switch section goes through the coax to T14. That is working!! The fact that it IS working says that the coax, T14, diodes, etc. are all ok.

On CW, the +250V goes through R104 (2.2M) through R106 (15k) to ground. Simple voltage divider.

The wiper of R105 (500k) connects to the junction of R104/R106. The 'bottom' end of R105 is grounded, and the 'top' of R105 goes to a tag on S1D(r). So what 'should' be happening is that the +250V is divided down to 2.2M / 15k, resulting in a voltage of ~ 1.7 VDC at that junction. Now with R105 in parallel with R106, when the wiper of R105 is at the 'bottom' end, the R106 is shorted and the voltage on the wiper is 0.0V. When the wiper of R105 is at the 'top' end, the 500k of R105 is in parallel with the 15k, essentially no effect. At various points in between the two extremes, 'some' portion of R105 is in parallel with R106, and the rest of R105 is in 'series' with lead to the coax.

So... The voltage on T14 (coax) should vary from 0.0V (R105 full CCW), to 1.69V (full CW). The voltage change will NOT be linear, due to the parallel and series combinations of R105 and R106 at various positions, it will be more of a logarithmic curve. The two forward biased diodes inside T14 will also limit the voltage to about 1.4V max, due to their conducting and dropping voltage across the top portion of R105.

But if you have ZERO voltage in CW, then there is something wrong with a very simple circuit. Most likely is a cracked R104, possibly a short from the R105 wiper to ground, or a bad solder joint somewhere in this area. Of course a bad switch contact could also be involved. Look carefully at the schematic just below and to the right of the key jack. I would measure voltage on each end of

R104, at the top end of R106 w/ R105 full CW. Power OFF and measure resistance from the wiper of
R105 to chassis, should vary from 15k CW to 0 ohms CCW.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hello again
> Re gain problems on T-4XC and your last email. In a.m. mode there is an increase in idling current from just below the tick to .1 on the
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> In a.m. position get .5v on inner co-ax pin on T14. No voltage in other modes.
> On centre lug of R105 no readings at all in any mode.
> Re S1(d) it looked a little bit tarnished so gave it a mild treatment of deoxit - still no better. I hope I am correct in
> placing S1(d) as the wafer furthest away from the front panel!!
>
> Cheers
>
> Vic
>
>
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> Yahoo! Groups Links
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5708. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-14 18:43:54 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5708

Good Lord Garey, do you ever sleep or take a day off!!
Have followed all of that OK and will perform the necessary checks. Hope I come back to you with better news.
Very much appreciate your help.
Vic
G4JSS

5709. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-15 01:39:55 UTC
From: Jim Shorney
Topic: 606 Message: 5709

On Sun, 14 Aug 2011 19:43:54 +0100 (BST), g4jss@... wrote:

>Good Lord Garey, do you ever sleep or take a day off!!

Of course he doesn't. Jedi masters never sleep.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5711. Sherwood Labs/Drake R4C line

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-15 21:13:52 UTC
From: yash@aol.com
Topic: 5711 Message: 5711

Have for sale or trade, a Drake C-line. R4C,sn# 26645,T4XC sn#26571. Includes a rebuilt AC-4 using the heathkit shop ar4c board. Includes a MS-4 speaker and all new transceive interconnects,all manuals. Includes crystals for all the bands,WARC and some for SW listening. The R4C is just back from Sherwood labs, the receiver HAS ALL the 7 Sherwood Labs mods installed, and working 100%.Sherwood Labs did a complete go thru and alignment. Includes all extra filters,except the AM filter.
Cosmetics are a 9/10,origional paint,faces perfect.All blue led lamps.T4XC,full output all bands.
Everything was just checked by Sherwood labs,no issues of any kind.
selling the last of my drake gear and moving on.
Will consider possiable trades for the C-line:756pro series,746 pro series,Yaesu ft-920, ft-1000/d or ? Looking for hf/6 rig.
will sell the C-line for 1000.00 ,split shipping.
thanks
dale wt4t

[Non-text portions of this message have been removed]

5712. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 09:23:34 UTC
From: g4jss@tiscali.co.uk
Topic: 606 Message: 5712

Hi Garey
Re gain - I have run into a problem here which I will do my best to explain. For reference I am using a working T-4XC and your CD - board
T10.
On the faulty 4XC R7 has been replaced with two 10K/10w resistors in parallel = 5k and then the wires are lead through to board
T6. If I look at my working 4XC and your CD board T10 one end of the resistor should go to a solder pin (yellow lead)at the bottom right
of the board and the other end of R7 to the bottom left of board T10.Well on the faulty Tx it doesnt. One lead goes to the bottom left but
the other goes to the relay base. I think it is soldered to a pin that has a track running to pin 1 on the relay.

Now if that isn't confusing enough there's more. The track from one end of R104 leads down to where a solder pin should be but comes to an
abrupt end because there is no solder pin there - just a hole. So R104 is not connected to anything. According to the cct dia, your CD and
comparison with my working Tx that is where one end of R7 should be connected - 250v.

What is more confusing is that the Tx did work until this fault developed.

It's bad enough if things are as per the cct. dia!! It's asking a lot but have you any ideas what has been done?

One more thing, have you any diazapam kicking about - I'll pay the shipping costs!!

Vic

G4JSS

5713. Re: [DrakeRadio] T-4XC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 14:19:26 UTC
From: Garey Barrell
Topic: 606 Message: 5713

Vic -

Ouch..... Lemme see if I can follow this.

R7 replacement is fine. I don't have a T-4XC open to look at, but... Pin 1 of the relay IS +250
VDC bus. I 'think' the lower right connection on T6 IS the +250V connection, and if so, then that
is ok as well.

R104 is a little more problematic! :-) ONE end of R104, I think the 'top' end, is connected to
+250V. The 'bottom' end of R104 should be connected to a terminal with a shielded lead that goes to
the wiper of R105. R106 should go from this same terminal to ground. Now, IF there is NO terminal
there, and no shielded lead, then the wiper of R105 'may' be getting voltage from some other
source. Or not! IF just R106 is not connected, it wouldn't have a huge effect on the operation of
the circuit, as the current would still be limited by R104.

As is often the case, someone screws up by 're-engineering' (and I use the term loosely,) to
compensate for a fault, rather than finding the fault.

I'm afraid you're going to have to trace out the wiper of R105, and see where it's connected. From
the circuit behavior, it indicates to me that the 'top' of R105 is NOT connected to the S1D(r)
switch tag. The PO 'may' have made 'other arrangements' for current to the diodes in T14, and THAT
circuit may be what has failed.

I have to admit I have forgotten the original complaint, but the CW GAIN circuit was either not
working, or not working as expected...?? I believe you DID measure voltage at the top of R105?
Might need to refresh! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

g4jss@... wrote:
> Hi Garey
> Re gain - I have run into a problem here which I will do my best to explain. For reference I am using a working T-4XC and your CD - board
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> the other goes to the relay base. I think it is soldered to a pin that has a track running to pin 1 on the relay.
>
> Now if that isn't confusing enough there's more. The track from one end of R104 leads down to where a solder pin should be but comes to an
> abrupt end because there is no solder pin there - just a hole. So R104 is not connected to anything. According to the cct dia, your CD and
> comparison with my working Tx that is where one end of R7 should be connected - 250v.
>
> What is more confusing is that the Tx did work until this fault developed.
>
> It's bad enough if things are as per the cct. dia!! It's asking a lot but have you any ideas what has been done?
>
> One more thing, have you any diazapam kicking about - I'll pay the shipping costs!!
>
> Vic
>
> G4JSS
>
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> Yahoo! Groups Links
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5714. TR-4C TX kicking out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 16:36:30 UTC
From: William Houghton
Topic: 5714 Message: 5714

Hi all,

I've noticed with my TR-4C that when tuning up (switch in the X-CW position) I can increase the drive to a point where it unkeys itself, goes back into receive, and then keys again. This oscillates at about a 1Hz rate. If I back off the drive it will stayed keyed (as it should). This seems to happen at just higher than 100W of output.

I can't recall if this happens on the dummy load or not. I observed this with an 80m inverted vee with an SWR at the rig of 1.2:1.

Anyone have any ideas what might cause this?

Tnx,

Bill

[Non-text portions of this message have been removed]

5715. Re: [DrakeRadio] TR-4C TX kicking out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 18:32:38 UTC
From: Garey Barrell
Topic: 5714 Message: 5715

Bill -

First thought would be power supply. Increasing drive also increases power supply load. Check
voltages as you increase drive.

Have you rebuilt the ps, (AC-4R or equivalent,)?

Have you replaced the electrolytic inside the transmitter?

Possible weak V2?

Weak V19?

Beyond this you need to check the various signals below to see what is causing the VOX to drop out.

The VOX is tripped and held in by V2 running as a 1 kHz audio oscillator. This signal is the
SIDETONE, and is applied to V19a, then rectified by D5, integrated in C143 and the resultant
positive voltage is used to drive V19b's grid, pulling in the relay.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
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> I can't recall if this happens on the dummy load or not. I observed this with an
> 80m inverted vee with an SWR at the rig of 1.2:1.
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> Anyone have any ideas what might cause this?
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> Tnx,
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> Bill
>
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5716. Re: [DrakeRadio] TR-4C TX kicking out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 19:06:57 UTC
From: William Houghton
Topic: 5714 Message: 5716

Hi Garey,

All of my AC-4's have been rebuilt using the AC-4R board (from the Heathkit Shop, I think).

I haven't Hayseed Hamfested the electrolytic on the chassis.

If I understand you correctly, in CW mode (which we use to tune the plate and load), the sidetone osc is turned on and used to drive the vox circuit causing the xmtr to key? (hmmm, very clever !). I presume this doesn't depend on the vox gain and delay controls, or does it? I think I have the vox and antivox control set to min since I don't use the vox on SSB.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, August 18, 2011 11:32:38 AM
Subject: Re: [DrakeRadio] TR-4C TX kicking out

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First thought would be power supply. Increasing drive also increases power supply load. Check

voltages as you increase drive.

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> Tnx,
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[Non-text portions of this message have been removed]

5717. Re: [DrakeRadio] TR-4C TX kicking out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 19:25:25 UTC
From: Garey Barrell
Topic: 5714 Message: 5717

Bill -

OK, good to eliminate the PS first! :-)

Yes, if the VOX GAIN is too low there may not be enough signal to keep the relay tube pulled in.

Turn it up 1/4 turn or so and see if that does it. If V2 or V19 fall off in gain over time it may
take a bit more signal to drive them.

73, Garey - K4OAH
Glen Allen, VA

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> To: DrakeRadio@yahoogroups.com
> Sent: Thu, August 18, 2011 11:32:38 AM
> Subject: Re: [DrakeRadio] TR-4C TX kicking out
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>> Tnx,
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>> Bill
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5718. Re: [DrakeRadio] TR-4C TX kicking out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 20:23:54 UTC
From: William Houghton
Topic: 5714 Message: 5718

Garey,

Okay, I'll give that a try tonight. That would be one of the easiest fixes, ever.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, August 18, 2011 12:25:25 PM
Subject: Re: [DrakeRadio] TR-4C TX kicking out

Bill -

OK, good to eliminate the PS first! :-)

Yes, if the VOX GAIN is too low there may not be enough signal to keep the relay tube pulled in.

Turn it up 1/4 turn or so and see if that does it. If V2 or V19 fall off in gain over time it may

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> Sent: Thu, August 18, 2011 11:32:38 AM
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[Non-text portions of this message have been removed]

5719. FS: Groups of FT243 crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-18 21:50:20 UTC
From: Bry Carling
Topic: 5719 Message: 5719

FOR SALE: Groups of FT243 crystals as used in all the typical ham AM and CW rigs like Heathkit, Drake 2NT, Hallicrafters HT40, etc. etc.

Back by popular demand.

GROUP 01 - (8) FT243 crystals - original ones on
7028, 7038, 7068, 7075, 7130, 7156, 7185, 7196 kHz
Available for just $25.00 total for all eight plus shipping.

GROUP 2 - (8) FT243 crystals - original ones on
7049, 7072, 7075, 7083, 7093, 7130, 7133, 7156 kHz
Available for just $25.00 total for all eight plus shipping.

GROUP 3 - (8) FT243 crystals - original ones on
7125, 7140, 7161, 7222, 7233, 7240, 7247, 7284kHz
Available for just $18.00 total for all eight plus shipping.

GROUP 4 - (8) FT243 crystals - original ones on
7162, 7172, 7192, 7243, 7273, 7277, 7284, 7289 kHz
Available for just $18.00 total for all eight plus shipping.

See lists and buy hrere:
http://www.af4k.com/basementcrystals.htm

Plenty of other ham band crystals on a wide variety of useful frequencies listed here:
http://www.af4k.com/crystals.htm

73 - Brian "Bry" Carling, AF4K
Florida

[Non-text portions of this message have been removed]

5720. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-21 21:04:19 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5720

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5721. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-23 20:58:09 UTC
From: William Houghton
Topic: 5714 Message: 5721

Thanks for the comments on my previous question about the TX on my TR-4C "kicking out". Of course, now that I went to hunt it down, it hasn't done it again. Around the same time I did find that my input cable to my SB-200 which uses an RCA male to PL-259 adapter, practically fell out into my hands when touched.

On the bench is my TR-4. Receiver seems to have basic functionality. When I tried to tune it in cw x- mode I had full power output (100W+) into a dummy load with the XMIT GAIN control having no effect. A meter from the pot wiper to ground shows the wiper voltage changes as its turned. There is a 100-ohm resistor in series with the T-14 can. However, since this point is two diode drops above ground and the 100-ohms is in series with several M-ohms, I'm not likely I think to observe any change in the DC voltage. I did notice that with a scope on the "pot side" of the 100 ohm resistor my gain control would adjust the output from about 40W to 100W+. My guess is that I'm snoopin' in the right part of the radio.

My question to the collective experience of Drake restorers is: it possible or likely that an alignment issue could have the DC balance of the modulator off far enough that XMIT GAIN control would appear to have no effect (i.e- inbalanced enough to cause full output) ?

Thanks & 73.

Bill

From: William Houghton <rdrbill@pacbell.net>
To: DrakeRadio@yahoogroups.com
Sent: Thu, August 18, 2011 1:23:54 PM
Subject: Re: [DrakeRadio] TR-4C TX kicking out

Garey,

Okay, I'll give that a try tonight. That would be one of the easiest fixes, ever.

Bill

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Thu, August 18, 2011 12:25:25 PM
Subject: Re: [DrakeRadio] TR-4C TX kicking out

Bill -

OK, good to eliminate the PS first! :-)

Yes, if the VOX GAIN is too low there may not be enough signal to keep the relay

tube pulled in.

Turn it up 1/4 turn or so and see if that does it. If V2 or V19 fall off in gain

over time it may

take a bit more signal to drive them.

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Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> To: DrakeRadio@yahoogroups.com
> Sent: Thu, August 18, 2011 11:32:38 AM
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[Non-text portions of this message have been removed]

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5722. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-23 21:24:49 UTC
From: Garey Barrell
Topic: 5714 Message: 5722

Bill -

Is this the same transceiver as below (TR-4C?) or a different one (TR-4?).

What happens in the 'X- AM' position?

How is the carrier suppression in SSB??

There should be '0 VDC' on the wiper of R74 when full CCW. You should be able to vary the voltage
on T-14 from 0 to about 1.4 VDC or so with R74 (GAIN) in X-CW. Bad ground on R74?

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>
> Yahoo! Groups Links
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5723. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-23 21:47:42 UTC
From: William Houghton
Topic: 5714 Message: 5723

Nope, different radio. This is a TR-4. This is the one that you like to call a "TR-4B". I don't know the answers to your question since I haven't done anything more that put it in the "tune" mode. I don't want to keep it keyed for too long under these conditions.

I'm assuming R74 is the pot? (I don't have the schematic with me at the moment). I did measure the pot wiper to ground and it did measure from zero to some fairly high value (I don't remember the exact amount) in RECEIVE mode.

I'll check the T-14 voltage.

TNX,

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Cc: William Houghton <rdrbill@...>
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> To: DrakeRadio@yahoogroups.com
> Sent: Thu, August 18, 2011 1:23:54 PM
> Subject: Re: [DrakeRadio] TR-4C TX kicking out
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> Garey,
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Thu, August 18, 2011 12:25:25 PM
> Subject: Re: [DrakeRadio] TR-4C TX kicking out

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[Non-text portions of this message have been removed]

5724. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-23 22:26:06 UTC
From: Garey Barrell
Topic: 5714 Message: 5724

OK. What serial number? There are 5 versions of the TR-4B.

The only way to check this is in X-CW. As long as the PLATE control is dipped, it won't hurt to
leave it keyed for a few minutes. If you like, set a small fan to blow air across the PA tubes.

In this mode, rotating R74 (XMTR GAIN) from full CCW to full CW should cause the voltage on the
wiper to vary from 0.0V to 'some' higher voltage near the center, then decreasing to about 1.5V or
so at full CW. Pot element possibly not 'connected' internally to ground terminal of pot?

IF you have full output with the XMTR GAIN full CCW, then I would look at the ground on R74.

Also, do you have good carrier suppression on SSB?

There have been instances of the diodes in T14 shorting to the can, which of course destroys Carrier
Suppression.!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> I did measure the pot wiper to ground and it did measure from zero to some
> fairly high value (I don't remember the exact amount) in RECEIVE mode.
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> I'll check the T-14 voltage.
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> TNX,
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Cc: William Houghton<rdrbill@...>
> Sent: Tue, August 23, 2011 2:24:49 PM
> Subject: Re: [DrakeRadio] TR-4 full power output
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> Bill -
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> Is this the same transceiver as below (TR-4C?) or a different one (TR-4?).
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> What happens in the 'X- AM' position?
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> How is the carrier suppression in SSB??
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>> Bill -
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>> OK, good to eliminate the PS first! :-)
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>> Yes, if the VOX GAIN is too low there may not be enough signal to keep the
>> relay
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5725. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 00:48:18 UTC
From: William Houghton
Topic: 5714 Message: 5725

Thanks Garey, I'll try to check it out tonight.

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, August 23, 2011 3:26:06 PM
Subject: Re: [DrakeRadio] TR-4 full power output

OK. What serial number? There are 5 versions of the TR-4B.

The only way to check this is in X-CW. As long as the PLATE control is dipped, it won't hurt to

leave it keyed for a few minutes. If you like, set a small fan to blow air across the PA tubes.

In this mode, rotating R74 (XMTR GAIN) from full CCW to full CW should cause the voltage on the

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Also, do you have good carrier suppression on SSB?

There have been instances of the diodes in T14 shorting to the can, which of course destroys Carrier

Suppression.!

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Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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[Non-text portions of this message have been removed]

5726. Drake 4-Line on QRZ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 01:11:42 UTC
From: Dan Galligan
Topic: 5726 Message: 5726

In case any of you might be interested, this fellow seems to have a pretty nice T4X, R4 station for sale on QRZ. I already have my 4-Line stations and don't need another, but I thought many of you would be interested in this Drake Station, especially if you are in the Savannah to Statesboro, Georgia, area.
Dan
W3RXO
"If you don't love it leave it, let this..be your warning, when you're running down my country man, you're walking on the fighting side of me". Merle Haggard

[Non-text portions of this message have been removed]

5727. The Missing Link

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 01:23:50 UTC
From: Dan Galligan
Topic: 5727 Message: 5727

QRZ
Dan
W3RXO
"If you don't love it leave it, let this...be your warning, when you're running down my country man, you're walking on the fighting side of me". Merle Haggard

[Non-text portions of this message have been removed]

5728. Guess I can't post a link

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 01:34:53 UTC
From: Dan Galligan
Topic: 5728 Message: 5728

So, here is the web address, to copy and paste.
http://forums.qrz.com/showthread.php?309971-Drake-T-4X-R-4-MS-4-AC-4-DC-3-etc.-with-all-cables
Dan
W3RXO
"If you don't love it leave it, let this...be your warning, when you're running down my country man, you're walking on the fighting side of me". Merle Haggard

[Non-text portions of this message have been removed]

5729. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 16:36:45 UTC
From: William Houghton
Topic: 5714 Message: 5729

I had a little bit of time to look at it last night. BTW, unpeaking the prescaler also lowers the output power making bench testing easier on the finals.

The XMTR GAIN control does adjust the DC bias on T-14 from 0 to 1.74V. The output of T-14 on the scope varies from very close to 0 to about 3.5Vp-p when turning the XMTR GAIN control from CCW to CW. Tonight I might be able to look farther down the chain. I also noticed last night that the symptoms changed slightly. Now I can adjust the output from about 40W to 100W+.

I also noticed that the AGC on receive is misbehaving. Quite often the receiver will have the same effect as if you turned down the RF gain control. A light tap on the chassis fixes it for a few minutes. Are old intermittent radios so much fun ? Perhaps its possible that the two symptoms are related but I'm not sure how.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Tue, August 23, 2011 3:26:06 PM
Subject: Re: [DrakeRadio] TR-4 full power output

OK. What serial number? There are 5 versions of the TR-4B.

The only way to check this is in X-CW. As long as the PLATE control is dipped, it won't hurt to

leave it keyed for a few minutes. If you like, set a small fan to blow air across the PA tubes.

In this mode, rotating R74 (XMTR GAIN) from full CCW to full CW should cause the voltage on the

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so at full CW. Pot element possibly not 'connected' internally to ground terminal of pot?

IF you have full output with the XMTR GAIN full CCW, then I would look at the ground on R74.

Also, do you have good carrier suppression on SSB?

There have been instances of the diodes in T14 shorting to the can, which of course destroys Carrier

Suppression.!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Nope, different radio. This is a TR-4. This is the one that you like to call a
> "TR-4B". I don't know the answers to your question since I haven't done
>anything
> more that put it in the "tune" mode. I don't want to keep it keyed for too
long
> under these conditions.
>
>
> I'm assuming R74 is the pot? (I don't have the schematic with me at the
>moment).
> I did measure the pot wiper to ground and it did measure from zero to some
> fairly high value (I don't remember the exact amount) in RECEIVE mode.
>
> I'll check the T-14 voltage.
>
> TNX,
>
> Bill
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Cc: William Houghton<rdrbill@...>
> Sent: Tue, August 23, 2011 2:24:49 PM
> Subject: Re: [DrakeRadio] TR-4 full power output
>
> Bill -
>
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>
> What happens in the 'X- AM' position?
>
> How is the carrier suppression in SSB??
>
> There should be '0 VDC' on the wiper of R74 when full CCW. You should be able
> to vary the voltage
>
> on T-14 from 0 to about 1.4 VDC or so with R74 (GAIN) in X-CW. Bad ground on
> R74?
>

> 73, Garey - K4OAH
> Glen Allen, VA
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>> uses an RCA male to PL-259 adapter, practically fell out into my hands when
>> touched.
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>> My question to the collective experience of Drake restorers is: it possible
> or
>> likely that an alignment issue could have the DC balance of the modulator off
>> far enough that XMIT GAIN control would appear to have no effect (i.e-
>> inbalanced enough to cause full output) ?
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>> Bill
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>> To: DrakeRadio@yahoogroups.com
>> Sent: Thu, August 18, 2011 1:23:54 PM
>> Subject: Re: [DrakeRadio] TR-4C TX kicking out

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>> To: DrakeRadio@yahoogroups.com
>> Sent: Thu, August 18, 2011 12:25:25 PM
>> Subject: Re: [DrakeRadio] TR-4C TX kicking out
>>
>>
>> Bill -
>>
>> OK, good to eliminate the PS first! :-)
>>
>> Yes, if the VOX GAIN is too low there may not be enough signal to keep the
>> relay
>>
>> tube pulled in.
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>> Turn it up 1/4 turn or so and see if that does it. If V2 or V19 fall off in
>> gain
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>> over time it may
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>> take a bit more signal to drive them.
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>> William Houghton wrote:
>>> Hi Garey,
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>>> All of my AC-4's have been rebuilt using the AC-4R board (from the Heathkit
>>> Shop, I think).
>>>
>>> I haven't Hayseed Hamfested the electrolytic on the chassis.
>>>
>>> If I understand you correctly, in CW mode (which we use to tune the plate
and
>>> load), the sidetone osc is turned on and used to drive the vox circuit

> causing
>>> the xmtr to key? (hmmm, very clever !). I presume this doesn't depend on the
>>> vox
>>> gain and delay controls, or does it? I think I have the vox and antivox
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>>> set to min since I don't use the vox on SSB.
>>>
>>> Bill
>>>
>>>
>>>
>>>
>>> _____
>>> From: Garey Barrell<k4oah@...>
>>> To: DrakeRadio@yahoogroups.com
>>> Sent: Thu, August 18, 2011 11:32:38 AM
>>> Subject: Re: [DrakeRadio] TR-4C TX kicking out
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>>>
>>> Bill -
>>>
>>> First thought would be power supply. Increasing drive also increases power
>>> supply load. Check
>>>
>>> voltages as you increase drive.
>>>
>>> Have you rebuilt the ps, (AC-4R or equivalent,)?
>>>
>>> Have you replaced the electrolytic inside the transmitter?
>>>
>>> Possible weak V2?
>>>
>>> Weak V19?
>>>
>>> Beyond this you need to check the various signals below to see what is
> causing
>>> the VOX to drop out.
>>>
>>> The VOX is tripped and held in by V2 running as a 1 kHz audio oscillator.
> This
>>> signal is the
>>>
>>> SIDETONE, and is applied to V19a, then rectified by D5, integrated in C143
> and
>>> the resultant
>>>
>>> positive voltage is used to drive V19b's grid, pulling in the relay.
>>>
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>>> Glen Allen, VA

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>>>> the drive it will stayed keyed (as it should). This seems to happen at just
>>>> higher than 100W of output.
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>>>> I can't recall if this happens on the dummy load or not. I observed this
> with
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>>>> 80m inverted vee with an SWR at the rig of 1.2:1.
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>>>> Anyone have any ideas what might cause this?
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>>>> Tnx,
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>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> ------------------------------------
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> Yahoo! Groups Links
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>
>
>

[Non-text portions of this message have been removed]

5730. Peter Dahl k0bit SK

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 17:33:05 UTC
From: Allan C
Topic: 5730 Message: 5730

Fw: Peter Dahl K0BIT SK
<http://groups.yahoo.com/group/FLBOATANCHORS/message/13901;_ylc=X3oDMTJx\
MHUzcjViBF9TAzk3MzU5NzE1BGdycElkAzQzMjI0NARncnBzcElkAzE3MDUwNjMxMDgEbXNn\
SWQDMTM5MDEEc2VjA2Rtc2cEc2xrA3Ztc2cEc3RpbWUDMTMxNDE3OTk0MQ--> Posted
by: "Bob Lunsford" nocrud222@...
<http://us.mc836.mail.yahoo.com/mc/compose?to=nocrud222@...&Subjec\
t= Re%3A%20Fw%3A%20Peter%20Dahl%20K0BIT%20SK> nocrud222
<http://profiles.yahoo.com/nocrud222> Tue Aug 23, 2011 10:15 pm (PDT)

Peter Dahl K0BIT SK

Peter Dahl, K0BIT, of El Paso, Texas, passed away August 15 of
Parkinson's disease. He was 71. In 2007 after more than 40 years, he
closed his company -- the Peter W. Dahl Company -- citing health
reasons.

Dahl founded the Peter W. Dahl Company, manufacturers of a wide variety
of custom transformers and reactors for Amateur Radio, as well as
commercial radio and television applications.

See more here (the ARRL website):

http://www.arrl. org/news/ view/peter- dahl-k0bit- sk?utm_medium=
twitter&utm_ source=twitterfe ed
<http://www.arrl.org/news/view/peter-dahl-k0bit-sk?utm_medium=twitter&ut\
m_source=twitterfeed> Peter

[Non-text portions of this message have been removed]

5731. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 19:09:17 UTC
From: Garey Barrell
Topic: 5714 Message: 5731

Bill -

Have you subbed V13 yet?? Swap with V18?

What band are you working on?? I like to work at 40M, it's low enough to be less sensitive to PA
condition and neutralization, yet uses all stages of the radio. Also, alignment is much broader
here than on the higher bands, again making it less sensitive to minor deviations from optimum.

Check R34 and R40 for value and condition

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> output of T-14 on the scope varies from very close to 0 to about 3.5Vp-p when
> turning the XMTR GAIN control from CCW to CW. Tonight I might be able to look
> farther down the chain. I also noticed last night that the symptoms changed
> slightly. Now I can adjust the output from about 40W to 100W+.
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> I also noticed that the AGC on receive is misbehaving. Quite often the receiver
> will have the same effect as if you turned down the RF gain control. A light tap
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> To: DrakeRadio@yahoogroups.com

> Sent: Tue, August 23, 2011 3:26:06 PM
> Subject: Re: [DrakeRadio] TR-4 full power output
>
>
> OK. What serial number? There are 5 versions of the TR-4B.
>
> The only way to check this is in X-CW. As long as the PLATE control is dipped,
> it won't hurt to
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> leave it keyed for a few minutes. If you like, set a small fan to blow air
> across the PA tubes.
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> course destroys Carrier
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>> Cc: William Houghton<rdrbill@...>
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>>>>> Anyone have any ideas what might cause this?
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>>>>> Tnx,
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>>>>> Bill
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5732. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-24 19:35:12 UTC
From: William Houghton
Topic: 5714 Message: 5732

Yes, subbed V13 if that's the 12AX7A AGC amp.
Doing this on 80m.

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, August 24, 2011 12:09:17 PM
Subject: Re: [DrakeRadio] TR-4 full power output

Bill -

Have you subbed V13 yet?? Swap with V18?

What band are you working on?? I like to work at 40M, it's low enough to be less
sensitive to PA

condition and neutralization, yet uses all stages of the radio. Also, alignment
is much broader

here than on the higher bands, again making it less sensitive to minor
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Check R34 and R40 for value and condition

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Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>>> output from about 40W to 100W+. My guess is that I'm snoopin' in the right
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>>> My question to the collective experience of Drake restorers is: it possible
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>>> likely that an alignment issue could have the DC balance of the modulator
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>>> far enough that XMIT GAIN control would appear to have no effect (i.e-
>>> inbalanced enough to cause full output) ?
>>>
>>>
>>> Thanks& 73.
>>>
>>> Bill
>>>
>>>
>>>
>>> _____
>>> From: William Houghton<rdrbill@...>
>>> To: DrakeRadio@yahoogroups.com
>>> Sent: Thu, August 18, 2011 1:23:54 PM
>>> Subject: Re: [DrakeRadio] TR-4C TX kicking out
>>>
>>>

>>> Garey,
>>>
>>> Okay, I'll give that a try tonight. That would be one of the easiest fixes,
>>> ever.
>>>
>>> Bill
>>>
>>> _____
>>> From: Garey Barrell<k4oah@...>
>>> To: DrakeRadio@yahoogroups.com
>>> Sent: Thu, August 18, 2011 12:25:25 PM
>>> Subject: Re: [DrakeRadio] TR-4C TX kicking out
>>>
>>>
>>> Bill -
>>>
>>> OK, good to eliminate the PS first! :-)
>>>
>>> Yes, if the VOX GAIN is too low there may not be enough signal to keep the
>>> relay
>>>
>>> tube pulled in.
>>>
>>> Turn it up 1/4 turn or so and see if that does it. If V2 or V19 fall off in
>>> gain
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>>> over time it may
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>>> 73, Garey - K4OAH
>>> Glen Allen, VA
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>>>> I haven't Hayseed Hamfested the electrolytic on the chassis.
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> and
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>>>> the xmtr to key? (hmmm, very clever !). I presume this doesn't depend on

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>>>> vox
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>>>> To: DrakeRadio@yahoogroups.com
>>>> Sent: Thu, August 18, 2011 11:32:38 AM
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>>>> supply load. Check
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>>>> voltages as you increase drive.
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>>>> Have you rebuilt the ps, (AC-4R or equivalent,)?
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>>>> Have you replaced the electrolytic inside the transmitter?
>>>>
>>>> Possible weak V2?
>>>>
>>>> Weak V19?
>>>>
>>>> Beyond this you need to check the various signals below to see what is
>> causing
>>>> the VOX to drop out.
>>>>
>>>> The VOX is tripped and held in by V2 running as a 1 kHz audio oscillator.
>> This
>>>> signal is the
>>>>
>>>> SIDETONE, and is applied to V19a, then rectified by D5, integrated in C143
>> and
>>>> the resultant
>>>>
>>>> positive voltage is used to drive V19b's grid, pulling in the relay.
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>>>>> I can't recall if this happens on the dummy load or not. I observed this
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>>>>> an
>>>>> 80m inverted vee with an SWR at the rig of 1.2:1.
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>>>>> Anyone have any ideas what might cause this?
>>>>>
>>>>> Tnx,
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>>>>> Bill
>>>>>

[Non-text portions of this message have been removed]

5733. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 17:09:50 UTC
From: William Houghton
Topic: 5714 Message: 5733

R32 is up 24% and R40 is up 45% ! Looking at the schematic these are screen grid dc bias ?

Looking at the T-13 output (after the 12BA6) with the XMTR GAIN full CCW we have 480mVpp. The 12BY7A grid has 5Vpp, and the 6JB6 grid has 34Vpp.

Bill

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wed, August 24, 2011 12:09:17 PM
Subject: Re: [DrakeRadio] TR-4 full power output

Bill -

Have you subbed V13 yet?? Swap with V18?

What band are you working on?? I like to work at 40M, it's low enough to be less sensitive to PA

condition and neutralization, yet uses all stages of the radio. Also, alignment is much broader

here than on the higher bands, again making it less sensitive to minor deviations from optimum.

Check R34 and R40 for value and condition

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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William Houghton wrote:
> I had a little bit of time to look at it last night. BTW, unpeaking the
> prescaler also lowers the output power making bench testing easier on the
> finals.
>
> The XMTR GAIN control does adjust the DC bias on T-14 from 0 to 1.74V. The
> output of T-14 on the scope varies from very close to 0 to about 3.5Vp-p when
> turning the XMTR GAIN control from CCW to CW. Tonight I might be able to look
> farther down the chain. I also noticed last night that the symptoms changed
> slightly. Now I can adjust the output from about 40W to 100W+.
>
> I also noticed that the AGC on receive is misbehaving. Quite often the

receiver
> will have the same effect as if you turned down the RF gain control. A light
>tap
> on the chassis fixes it for a few minutes. Are old intermittent radios so much
> fun ? Perhaps its possible that the two symptoms are related but I'm not sure
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Tue, August 23, 2011 3:26:06 PM
> Subject: Re: [DrakeRadio] TR-4 full power output
>
>
> OK. What serial number? There are 5 versions of the TR-4B.
>
> The only way to check this is in X-CW. As long as the PLATE control is dipped,
> it won't hurt to
>
> leave it keyed for a few minutes. If you like, set a small fan to blow air
> across the PA tubes.
>
> In this mode, rotating R74 (XMTR GAIN) from full CCW to full CW should cause
>the
> voltage on the
>
> wiper to vary from 0.0V to 'some' higher voltage near the center, then
> decreasing to about 1.5V or
>
> so at full CW. Pot element possibly not 'connected' internally to ground
> terminal of pot?
>
> IF you have full output with the XMTR GAIN full CCW, then I would look at the
> ground on R74.
>
> Also, do you have good carrier suppression on SSB?
>
> There have been instances of the diodes in T14 shorting to the can, which of
> course destroys Carrier
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> Suppression.!
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> 73, Garey - K4OAH
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> William Houghton wrote:
>> Nope, different radio. This is a TR-4. This is the one that you like to call
a
>> "TR-4B". I don't know the answers to your question since I haven't done
>> anything
>> more that put it in the "tune" mode. I don't want to keep it keyed for too
> long
>> under these conditions.
>>
>>
>> I'm assuming R74 is the pot? (I don't have the schematic with me at the
>> moment).
>> I did measure the pot wiper to ground and it did measure from zero to some
>> fairly high value (I don't remember the exact amount) in RECEIVE mode.
>>
>> I'll check the T-14 voltage.
>>
>> TNX,
>>
>> Bill
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>> To: DrakeRadio@yahoogroups.com
>> Cc: William Houghton<rdrbill@...>
>> Sent: Tue, August 23, 2011 2:24:49 PM
>> Subject: Re: [DrakeRadio] TR-4 full power output
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>> Is this the same transceiver as below (TR-4C?) or a different one (TR-4?).
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>> What happens in the 'X- AM' position?
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>> How is the carrier suppression in SSB??
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>> There should be '0 VDC' on the wiper of R74 when full CCW. You should be able
>> to vary the voltage
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>> on T-14 from 0 to about 1.4 VDC or so with R74 (GAIN) in X-CW. Bad ground on
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>>>>> I can't recall if this happens on the dummy load or not. I observed this
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>>>>> an
>>>>> 80m inverted vee with an SWR at the rig of 1.2:1.
>>>>>
>>>>> Anyone have any ideas what might cause this?
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>>>>> Tnx,
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>>>>> Bill
>>>>>

[Non-text portions of this message have been removed]

5734. TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 17:10:17 UTC
From: Jim Chaggaris
Topic: 5734 Message: 5734

Now that's a beautiful TR-3!

http://www.ebay.com/itm/Drake-TR-3-transceiver-/290603037602?pt=LH_DefaultDomain_0&hash=item43a94a73a2

Best Regards,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Ave. Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Cell: 630-669-2241
Fax: 630-443-6505
Website: www.pwrone.com

5735. Re: [DrakeRadio] TR-4 full power output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 17:37:17 UTC
From: Garey Barrell
Topic: 5714 Message: 5735

Ah, progress... R32 is just a spur killer, but should be replaced because it's definitely been
abused! R40 is the decoupling resistor for the Driver Plate and is probably a good part of your low
power problem. Typically you'll find ~6 V p-p on the Grid of the 12BY7, so that's about right.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> Sent: Wed, August 24, 2011 12:09:17 PM
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>
> Bill -
>
> Have you subbed V13 yet?? Swap with V18?
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> What band are you working on?? I like to work at 40M, it's low enough to be less
> sensitive to PA
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> condition and neutralization, yet uses all stages of the radio. Also, alignment
> is much broader
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>> turning the XMTR GAIN control from CCW to CW. Tonight I might be able to look
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>>>>> voltages as you increase drive.
>>>>>
>>>>> Have you rebuilt the ps, (AC-4R or equivalent,)?

>>>>>
>>>>> Have you replaced the electrolytic inside the transmitter?
>>>>>
>>>>> Possible weak V2?
>>>>>
>>>>> Weak V19?
>>>>>
>>>>> Beyond this you need to check the various signals below to see what is
>>> causing
>>>>> the VOX to drop out.
>>>>>
>>>>> The VOX is tripped and held in by V2 running as a 1 kHz audio oscillator.
>>> This
>>>>> signal is the
>>>>>
>>>>> SIDETONE, and is applied to V19a, then rectified by D5, integrated in C143
>>> and
>>>>> the resultant
>>>>>
>>>>> positive voltage is used to drive V19b's grid, pulling in the relay.
>>>>>
>>>>> 73, Garey - K4OAH
>>>>> Glen Allen, VA
>>>>>
>>>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>>>>> and TR-4/C Service Supplement CDs
>>>>> <www.k4oah.com>
>>>>>
>>>>> William Houghton wrote:
>>>>>> Hi all,
>>>>>>
>>>>>> I've noticed with my TR-4C that when tuning up (switch in the X-CW
>> position)
>>>> I
>>>>>> can increase the drive to a point where it unkeys itself, goes back into
>>>>>> receive, and then keys again. This oscillates at about a 1Hz rate. If I
>> back
>>>>>> off
>>>>>> the drive it will stayed keyed (as it should). This seems to happen at
> just
>>>>>> higher than 100W of output.
>>>>>>
>>>>>>
>>>>>> I can't recall if this happens on the dummy load or not. I observed this
>>> with
>>>>>> an
>>>>>> 80m inverted vee with an SWR at the rig of 1.2:1.
>>>>>>
>>>>>> Anyone have any ideas what might cause this?
>>>>>>

>>>>>> Tnx,
>>>>>>
>>>>>> Bill
>>>>>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

5736. Re: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 19:17:46 UTC
From: Dennis Weal
Topic: 5734 Message: 5736

I would bid about $35 tops. I want one of em yeller dials for my TR-4C, man what a dress up piece.

Denny
w4eal

----- Original Message -----
From: Jim Chaggaris
Sent: 08/25/11 01:10 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-3

Now that's a beautiful TR-3!

http://www.ebay.com/itm/Drake-TR-3-transceiver-/290603037602?pt=LH_DefaultDomain_0&hash=item43a94a73a2

Best Regards,

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Ave. Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Cell: 630-669-2241
Fax: 630-443-6505
Website: www.pwrone.com

[Non-text portions of this message have been removed]

5737. Re: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 19:19:04 UTC
From: David Rogers
Topic: 5734 Message: 5737

Go to the store; buy a tub of margarine; get a sharpie . . . .

David, WA7ZYQ

----- Original Message -----
From: Dennis Weal
To: DrakeRadio@yahoogroups.com
Sent: Thursday, August 25, 2011 12:17 PM
Subject: Re: [DrakeRadio] TR-3

I would bid about $35 tops. I want one of em yeller dials for my TR-4C, man what a dress up piece.

Denny
w4eal

----- Original Message -----
From: Jim Chaggaris
Sent: 08/25/11 01:10 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR-3

Now that's a beautiful TR-3!

http://www.ebay.com/itm/Drake-TR-3-transceiver-/290603037602?pt=LH_DefaultDo
main_0&hash=item43a94a73a2

Best Regards,

Jim N9WW

James Chaggaris
President
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1020 Cedar Ave. Suite 203
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Fax: 630-443-6505
Website: www.pwrone.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5738. Re: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 19:23:10 UTC
From: Dennis Weal
Topic: 5734 Message: 5738

Woo hoo on my way!!!! Thanks David

Denny

----- Original Message -----
From: David Rogers
Sent: 08/25/11 03:19 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR-3

Go to the store; buy a tub of margarine; get a sharpie . . . .

David, WA7ZYQ

----- Original Message -----
From: Dennis Weal
To: DrakeRadio%2540yahoogroups.com
Sent: Thursday, August 25, 2011 12:17 PM
Subject: Re: [DrakeRadio] TR-3

I would bid about $35 tops. I want one of em yeller dials for my TR-4C, man what a dress up piece.

Denny
w4eal

----- Original Message -----
From: Jim Chaggaris
Sent: 08/25/11 01:10 PM
To: DrakeRadio%2540yahoogroups.com
Subject: [DrakeRadio] TR-3

Now that's a beautiful TR-3!

http://www.ebay.com/itm/Drake-TR-3-transceiver-/290603037602?pt=LH_DefaultDo
main_0&hash=item43a94a73a2

Best Regards,

Jim N9WW

James Chaggaris
President
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5739. TR7A Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 21:11:35 UTC
From: Charles
Topic: 5739 Message: 5739

I checked the VCO as per the service manual alignment item 3.7
and it failed. The High VCO counted to 18,157+ and the lower VCO
went to 33,584+.
Is it possible to set the voltage on this board without extender boards?
In other words, can I just remove the DR7 board and set it or must I have the jumper board installed?
Tnx es 73,
Chuck KA6UUP

5740. Re: [DrakeRadio] TR7A Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-25 21:31:07 UTC
From: Jim Shorney
Topic: 5739 Message: 5740

On Thu, 25 Aug 2011 21:11:35 -0000, Charles wrote:

>I checked the VCO as per the service manual alignment item 3.7
>and it failed. The High VCO counted to 18,157+ and the lower VCO
>went to 33,584+.
>Is it possible to set the voltage on this board without extender boards?
>In other words, can I just remove the DR7 board and set it or must I have the jumper board installed?

First, check to ensure that your +24V supply is good. Failure of the +24V can cause this symptom.

I believe you would need the jumper board installed to make the adjutement, to answer your question.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5741. Re: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 02:43:14 UTC
From: Ernie Gray
Topic: 5734 Message: 5741

Price is already up to $21, wonder what the reserve is.... hope not much above $25. The tuning dial is def a keeper, belongs hanging on someone's "wall of shame"; sorry I can't top that one... A for effort!!!!
73's, W1MRQ

Ernie Gray
W1MRQ
Helmond Province
Afghanistan

[Non-text portions of this message have been removed]

5742. RE: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 02:57:35 UTC
From: Jim Chaggaris
Topic: 5734 Message: 5742

Ernie,

The real kicker is can anyone identify all the different control knobs.I see a Swan or Galaxy knob, stock Drake knobs but the others are a mystery. The brick/block knob is classic.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Ernie Gray
Sent: Thursday, August 25, 2011 9:43 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR-3

Price is already up to $21, wonder what the reserve is.... hope not much above $25. The tuning dial is def a keeper, belongs hanging on someone's "wall of shame"; sorry I can't top that one... A for effort!!!!
73's, W1MRQ

Ernie Gray
W1MRQ
Helmond Province
Afghanistan

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5743. RE: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 03:22:11 UTC
From: Jim Shorney
Topic: 5734 Message: 5743

On Thu, 25 Aug 2011 21:57:35 -0500, Jim Chaggaris wrote:

>The real kicker is can anyone identify all the different control knobs.I see
>a Swan or Galaxy knob, stock Drake knobs but the others are a mystery. The
>brick/block knob is classic.

The Sideband knob looks Heathkit.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5744. RE: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 03:27:51 UTC
From: Ernie Gray
Topic: 5734 Message: 5744

The brick knob may be home made, the tuning knob looks like my Nye Viking MB-V-A. I picked the Swan knobs; my FIRST Drake TR-3 had a full set... :-)

73's W1MRQ

Ernie Gray
W1MRQ
Helmond Province
Afghanistan

[Non-text portions of this message have been removed]

5745. RE: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 03:34:57 UTC
From: Ernie Gray
Topic: 5734 Message: 5745

Yes, the sideband knob is an early Heathklit knob, the volume control is a Gonset aluminum knob I am 99% sure. I bar knob which limits his choices to 80 or 40 meters BTW is unknown.

73's

Ernie Gray
W1MRQ
Helmond Province
Afghanistan

[Non-text portions of this message have been removed]

5746. Re: TR7A Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 04:31:50 UTC
From: Charles
Topic: 5739 Message: 5746

I checked pin 2 of the power supply board and got 24.66 volts dc
The service manual calls for 25 v dc.
Is this what you are referring to?
Thanks,
Chuck

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Thu, 25 Aug 2011 21:11:35 -0000, Charles wrote:
>
> >I checked the VCO as per the service manual alignment item 3.7
> >and it failed. The High VCO counted to 18,157+ and the lower VCO
> >went to 33,584+.
> >Is it possible to set the voltage on this board without extender boards?
> >In other words, can I just remove the DR7 board and set it or must I have the jumper board installed?
>
>
> First, check to ensure that your +24V supply is good. Failure of the +24V can
> cause this symptom.
>
> I believe you would need the jumper board installed to make the adjutement, to
> answer your question.
>
> 73
>
> -Jim
>
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>

5747. Re: [DrakeRadio] Re: TR7A Question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 04:55:19 UTC
From: Jim Shorney
Topic: 5739 Message: 5747

On Fri, 26 Aug 2011 04:31:50 -0000, Charles wrote:

>I checked pin 2 of the power supply board and got 24.66 volts dc
>The service manual calls for 25 v dc.
>Is this what you are referring to?

Yep. You should be OK there. The next thing to try is to pull the DR-7 board and re-seat it. Oxidized Molex connectors for inter-board connections can also cause your problem. Usually just re-seating the board will fix it, but it's not a bad idea to DeOxit the pins while you are at it. I fought a similar problem in my TR-7 for years - had to leave tthe top cover loose so I could reach in and push down on the DR-7 to make the rig work. After several sessions of cleaning, resoldering, and re-aligning pins, I finally got it to stop.

The Molex pin problems can affect any board in the rig, and it's been noted by myself and others that cleaning and re-seating the boards can solve a lot of odd 7-line problems. Google for the Drakelist home page and go for a search of the Drakelist archive, there's been a lot of discussion there on this topic over the years.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5748. Re: TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 14:46:40 UTC
From: fred
Topic: 5734 Message: 5748

have seen bar knobs like that on the penny's line of stereo equiopment .
don't remember the brand name that they used .
andrew
kd5pnt

--- In DrakeRadio@yahoogroups.com, Ernie Gray <w1mrq@...> wrote:
>
> Yes, the sideband knob is an early Heathklit knob, the volume control is a Gonset aluminum knob I am 99% sure. I bar knob which limits his choices to 80 or 40 meters BTW is unknown.
>
> 73's
>
> Ernie Gray
> W1MRQ
> Helmond Province
> Afghanistan
>
> [Non-text portions of this message have been removed]
>

5749. WTB: Drake WV-4 directional wattmeter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-26 22:35:55 UTC
From: kiloyankee7sierra
Topic: 5749 Message: 5749

Hi all, looking for a nice condition WV-4 directional wattmeter.
Please email me if you have one you would be willing to sell.

Thanks,

Jeff
NN7EE

5750. Need "Preselector" knob for 2-line receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-27 02:08:15 UTC
From: dean_k5dh
Topic: 5750 Message: 5750

I need a "Preselector" knob for a 2-line receiver. Gotta be a nice one cuz it's going on a nice looking 2-B receiver. The one I have is badly cracked.

73,
Dean K5DH

5751. Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-27 03:06:33 UTC
From: Garey Barrell
Topic: 5750 Message: 5751

Dean -

Check with Al, <kc9ys@...>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dean_k5dh wrote:
> I need a "Preselector" knob for a 2-line receiver. Gotta be a nice one cuz it's going on a nice looking 2-B receiver. The one I have is badly cracked.
>
> 73,
> Dean K5DH
>
>

5752. Wanted: AM filter for TR-7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-27 03:36:35 UTC
From: Ed WA4NJY
Topic: 5752 Message: 5752

Looking for a good 6kc AM filter.

Please state price in reply.

Ed Purvis WA4NJY
Bradenton, Fl
wa4njy@...

5753. Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-28 18:29:40 UTC
From: ALAN PHILLIPS
Topic: 5750 Message: 5753

Hi Dean:

I have the preselector knobs for the 4 line>

I don't know what the knob looks like on the 2b if its the same or not?

Maybe Garey knows?

let me know, my knobs are $7 each for the preselector.
73 al kc9ys

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, August 26, 2011 10:06:33 PM
Subject: Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver

Dean -

Check with Al, <kc9ys@...>

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dean_k5dh wrote:
> I need a "Preselector" knob for a 2-line receiver. Gotta be a nice one cuz it's
>going on a nice looking 2-B receiver. The one I have is badly cracked.
>
> 73,
> Dean K5DH
>
>

[Non-text portions of this message have been removed]

5754. Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-28 18:37:04 UTC
From: Don Cunningham
Topic: 5750 Message: 5754

Alan,
The preselector knob on the 2B is much different from the one on the 4 line. The red pointers may be the same, I don't know, but I have all three of the receivers here, and the 2B is the "odd man out". All 2B knobs have chrome inserts.
73, and keep making those knobs!!!!
Don, WB5HAK

[Non-text portions of this message have been removed]

5755. Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-28 19:24:28 UTC
From: Garey Barrell
Topic: 5750 Message: 5755

Al / Dean -

Sorry, that's what happens when I rely on my alleged memory!!

The 2-B and the 2-C have the same round knob with bright insert ring. Completely different from the
round knob used on the 4 Series...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line and
TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Dean:
>
> I have the preselector knobs for the 4 line>
>
> I don't know what the knob looks like on the 2b if its the same or not?
>
> Maybe Garey knows?
>
> let me know, my knobs are $7 each for the preselector.
> 73 al kc9ys
>
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, August 26, 2011 10:06:33 PM
> Subject: Re: [DrakeRadio] Need "Preselector" knob for 2-line receiver
>
>
> Dean -
>
> Check with Al,<kc9ys@...>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> dean_k5dh wrote:
>> I need a "Preselector" knob for a 2-line receiver. Gotta be a nice one cuz it's
>> going on a nice looking 2-B receiver. The one I have is badly cracked.
>>
>> 73,
>> Dean K5DH
>>

5756. Drake HF nets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 01:07:34 UTC
From: k9sqg
Topic: 5756 Message: 5756

I would like to invite all Drake enthusiasts in the Midwest or East to participate in the Drake nets. The Drake Technical Net meets on Sunday, 2000 hours Zulu, on or around 7238. Experts are on hand to assist with fault isolation, repairs, refurbishing, etc. but not buying and selling gear.

The Drake and Antique Gear Net meets on Tuesday evenings, on or around 3865-8, at 8 pm Eastern time. Buying, selling, swapping, etc. related to tube, vintage, and collectable gear, especially Drake.

Plus there are several other swap nets on HF.

Enjoy that Drake gear!

5757. Re: [DrakeRadio] Drake HF nets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 01:23:35 UTC
From: Donnie
Topic: 5756 Message: 5757

Hi Evan:
You had a nice and strong signal into Muncie, IN this afternoon while on the Drake net.....

Regards, Donnie / WA9TGT

www.2bRadioParts.com

On Sun, Aug 28, 2011 at 9:07 PM, k9sqg <k9sqg@...> wrote:

> **
>
>
> I would like to invite all Drake enthusiasts in the Midwest or East to
> participate in the Drake nets. The Drake Technical Net meets on Sunday, 2000
> hours Zulu, on or around 7238. Experts are on hand to assist with fault
> isolation, repairs, refurbishing, etc. but not buying and selling gear.
>
> The Drake and Antique Gear Net meets on Tuesday evenings, on or around
> 3865-8, at 8 pm Eastern time. Buying, selling, swapping, etc. related to
> tube, vintage, and collectable gear, especially Drake.
>
> Plus there are several other swap nets on HF.
>
> Enjoy that Drake gear!
>
>
>

[Non-text portions of this message have been removed]

5758. Re: [DrakeRadio] Drake HF nets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 02:15:00 UTC
From: VE3AX/7
Topic: 5756 Message: 5758

Sadly, you guys aren't making it out this far on 40m at that time of day.
Miss the old gang!

73

Peter
VE3AX/7
Grand Forks, BC

-----Original Message-----
From: Donnie
Sent: Sunday, August 28, 2011 6:23 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake HF nets

Hi Evan:
You had a nice and strong signal into Muncie, IN this afternoon while on the
Drake net.....

Regards, Donnie / WA9TGT

www.2bRadioParts.com

On Sun, Aug 28, 2011 at 9:07 PM, k9sqg <k9sqg@...> wrote:

> **
>
>
> I would like to invite all Drake enthusiasts in the Midwest or East to
> participate in the Drake nets. The Drake Technical Net meets on Sunday,
> 2000
> hours Zulu, on or around 7238. Experts are on hand to assist with fault
> isolation, repairs, refurbishing, etc. but not buying and selling gear.
>
> The Drake and Antique Gear Net meets on Tuesday evenings, on or around
> 3865-8, at 8 pm Eastern time. Buying, selling, swapping, etc. related to
> tube, vintage, and collectable gear, especially Drake.
>
> Plus there are several other swap nets on HF.
>
> Enjoy that Drake gear!
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

5759. Knobs for Drake 2B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 15:51:50 UTC
From: querencias
Topic: 5756 Message: 5759

My 2B needs a new tuning knob, any "extras" lying around out there?

Grant/KT6L

5760. AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 18:28:09 UTC
From: William Houghton
Topic: 5760 Message: 5760

Hi Everyone,

The RF GAIN pot on a TR-4 is giving me grief. This is a dual pot with a switch that provides the AF Gain, RF Gain, and power on/off functions. Does anyone have one in good mechanical and electrical condition from a parts rig?

Checking the schematics that I have it looks like the same dual pot assembly is used on Tr-3, TR-4, and TR-4C rigs.

If you have one, please contact me.

73,

Bill, WA6NEQ

[Non-text portions of this message have been removed]

5761. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 19:25:34 UTC
From: Kris Merschrod
Topic: 5760 Message: 5761

I believe that one of the folks on eBay has just such a pot.

Sri, that I can't recall the exact but I was looking for Drake knobs.

73

Kris KM2KM
> Hi Everyone,
>
> The RF GAIN pot on a TR-4 is giving me grief. This is a dual pot with a
> switch
> that provides the AF Gain, RF Gain,?and power on/off functions. Does
> anyone have
> one in good mechanical and electrical condition from a parts rig?
>
> Checking the schematics?that I have it looks like the same dual pot
> assembly is
> used on Tr-3, TR-4, and TR-4C rigs.
>
>
> If you have one, please contact me.
>
> 73,
>
> Bill, WA6NEQ
>
> [Non-text portions of this message have been removed]
>
>

--
Merschrod
Now in CT 203 853-1466 through 28 AUG

Ithaca Tel. no. after 28 AUG 607 257-1734

5762. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 20:16:26 UTC
From: William Houghton
Topic: 5760 Message: 5762

If you find it, please let me know. I did see one for just the audio from a TR-7, I think.

Bill

From: Kris Merschrod <kris@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, August 29, 2011 12:25:34 PM
Subject: Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

I believe that one of the folks on eBay has just such a pot.

Sri, that I can't recall the exact but I was looking for Drake knobs.

73

Kris KM2KM
> Hi Everyone,
>
> The RF GAIN pot on a TR-4 is giving me grief. This is a dual pot with a
> switch
> that provides the AF Gain, RF Gain, and power on/off functions. Does
> anyone have
> one in good mechanical and electrical condition from a parts rig?
>
> Checking the schematics that I have it looks like the same dual pot
> assembly is
> used on Tr-3, TR-4, and TR-4C rigs.
>
>
> If you have one, please contact me.
>
> 73,
>
> Bill, WA6NEQ
>
> [Non-text portions of this message have been removed]
>
>

--
Merschrod
Now in CT 203 853-1466 through 28 AUG

Ithaca Tel. no. after 28 AUG 607 257-1734

[Non-text portions of this message have been removed]

5763. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 20:39:51 UTC
From: Garey Barrell
Topic: 5760 Message: 5763

Bill -

That's a different pot on the TR-7.

Is your RF GAIN pot dead or just noisy or ???

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> If you find it, please let me know. I did see one for just the audio from a
> TR-7, I think.
>
>
> Bill
>
>

5764. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 20:56:17 UTC
From: William Houghton
Topic: 5760 Message: 5764

Hi Garey,

If it was just noisy, out would come the tube of FaderLube. It seems to be intermittent.

There are times when the rig behaves as if you turned down the RF gain (i.e- the s-meter goes to about 20 or 40 over, background noise decreases, etc). A slight wiggle of the RF gain control "tab" restores things to order. In addition, the volume control has a lot of side-to-side shaft play.

I do have a TR-3 that I haven't bought up to operating condition and I may pull that one out to use in the TR-4. I'm guessing that the AF pot is log taper. Do you know if the RF gain is also log taper?

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, August 29, 2011 1:39:51 PM
Subject: Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Bill -

That's a different pot on the TR-7.

Is your RF GAIN pot dead or just noisy or ???

73, Garey - K4OAH
Glen Allen, VA

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William Houghton wrote:
> If you find it, please let me know. I did see one for just the audio from a
> TR-7, I think.
>
>
> Bill
>
>

[Non-text portions of this message have been removed]

5765. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 21:17:04 UTC
From: Don Cunningham
Topic: 5760 Message: 5765

Bill,
This will sound a bit strange, and I don't remember if this applies on the pot in question, but if ANY of the wires go to a PC board, I have solved MANY Drake intermittents on PC board connections by reheating the connection and reflowing them. Over the years, those leads (especially those passing through the board) break connection to the board, and every time something is moved, it rights for a while then goes right back. Same on the rings of control tabs too. These are just getting old (like me) and things like that happen. It may not help you, but surely won't hurt to see.

Also, if you knew the value and taper of the pot, Mouser has a GOOD selection of pots in the 2w version (same size as the old 1/4 to 1/2 w ones). I'm ordering some for my KWM2A this week!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5766. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 21:41:45 UTC
From: Garey Barrell
Topic: 5760 Message: 5766

Bill -

Ok. Are you SURE there's not a bad ground on the RF pot?

I 'think' the AF is LOG and the RF is LIN. Set to mid range and measure the resistance from wiper
to either side.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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William Houghton wrote:
> Hi Garey,
>
> If it was just noisy, out would come the tube of FaderLube. It seems to be
> intermittent.
>
> There are times when the rig behaves as if you turned down the RF gain (i.e- the
> s-meter goes to about 20 or 40 over, background noise decreases, etc). A slight
> wiggle of the RF gain control "tab" restores things to order. In addition, the
> volume control has a lot of side-to-side shaft play.
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>
> I do have a TR-3 that I haven't bought up to operating condition and I may pull
> that one out to use in the TR-4. I'm guessing that the AF pot is log taper. Do
> you know if the RF gain is also log taper?
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Mon, August 29, 2011 1:39:51 PM
> Subject: Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby& switch for
> TR-3/TR-4/TR-4C needed
>
>
> Bill -
>
> That's a different pot on the TR-7.
>
> Is your RF GAIN pot dead or just noisy or ???

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> 73, Garey - K4OAH
> Glen Allen, VA
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>
> William Houghton wrote:
>> If you find it, please let me know. I did see one for just the audio from a
>> TR-7, I think.
>>
>>
>> Bill
>>

5767. Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-29 22:18:50 UTC
From: William Houghton
Topic: 5760 Message: 5767

Garey,

Nope, I'm not absolutely sure. I'll check it though. I'm still bugged by the "slop" in the shaft so I might swap it with the one in my TR-3.

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Mon, August 29, 2011 2:41:45 PM
Subject: Re: [DrakeRadio] AF Gain/ RF Gain/ pot assemby & switch for TR-3/TR-4/TR-4C needed

Bill -

Ok. Are you SURE there's not a bad ground on the RF pot?

I 'think' the AF is LOG and the RF is LIN. Set to mid range and measure the resistance from wiper

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73, Garey - K4OAH
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William Houghton wrote:
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> intermittent.
>
> There are times when the rig behaves as if you turned down the RF gain (i.e-
>the
> s-meter goes to about 20 or 40 over, background noise decreases, etc). A
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> wiggle of the RF gain control "tab" restores things to order. In addition, the
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> Sent: Mon, August 29, 2011 1:39:51 PM
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> TR-3/TR-4/TR-4C needed
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>>
>> Bill
>>

[Non-text portions of this message have been removed]

5768. Re: Drake HF nets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-08-30 01:46:42 UTC
From: Paul Horvitz
Topic: 5756 Message: 5768

Is there anything like this active in the west as well?
Or on 20 meters perhaps?
I'm the proud owner of a TR7 and would like talking on the air with other Drake enthusiasts.

73,
Paul

--- In DrakeRadio@yahoogroups.com, "k9sqg" <k9sqg@...> wrote:
>
> I would like to invite all Drake enthusiasts in the Midwest or East to participate in the Drake nets. The Drake Technical Net meets on Sunday, 2000 hours Zulu, on or around 7238. Experts are on hand to assist with fault isolation, repairs, refurbishing, etc. but not buying and selling gear.
>
> The Drake and Antique Gear Net meets on Tuesday evenings, on or around 3865-8, at 8 pm Eastern time. Buying, selling, swapping, etc. related to tube, vintage, and collectable gear, especially Drake.
>
> Plus there are several other swap nets on HF.
>
> Enjoy that Drake gear!
>

5769. 2-B looks cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-01 21:27:59 UTC
From: William Houghton
Topic: 5769 Message: 5769

I picked up a 2-B at a garage sale price today. I didn't realize how tiny and cool looking they are! I'm tempted to keep it. Only bad news so far is that all of the xtals are missing. However, I didn't see a xtal socket position for 80m. I was just taking a quick look at the back where it looks like there are spaces for 4 or 5 xtals for the letter positions of the bandswitch and spaces for ham xtals seemed to start at 40m.

Might be fun to bring this radio up.I wonder how well it would do for AM broadcast radio?

73,

Bill

[Non-text portions of this message have been removed]

5770. Re: [DrakeRadio] 2-B looks cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-01 21:37:12 UTC
From: Garey Barrell
Topic: 5769 Message: 5770

Bill -

Imagine the impression it made when the 'good' receivers were the size of a large microwave oven and
weighed 50 - 70 pounds!!

The 2-B is a 'tunable IF' at the 80 M band, so no crystal required. Only three crystals are required to cover the original five HF bands, 11.0, 18.0 and 25.0 MHz. Cheap PC crystals will
'work' if you adapt them to fit.

NOT a good AM broadcast radio. Designed for SSB and CW, IF bandwidths of 3.6, 2.1 and 0.5 kHz.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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<www.k4oah.com>

William Houghton wrote:
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> xtals seemed to start at 40m.
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> broadcast radio?
>
>
> 73,
>
> Bill
>
>

5771. Re: [DrakeRadio] 2-B looks cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-01 22:03:47 UTC
From: William Houghton
Topic: 5769 Message: 5771

I was going to use the word "cute" but that doesn't sound manly - hihi.
Ah, nice that its integer xtal freq. By adapt, you're refering to the pin size
and spacing?
No startup issues due to series vs parallel modes, load capacitance, etc when
using PC xtals?

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, September 1, 2011 2:37:12 PM
Subject: Re: [DrakeRadio] 2-B looks cool

Bill -

Imagine the impression it made when the 'good' receivers were the size of a
large microwave oven and

weighed 50 - 70 pounds!!

The 2-B is a 'tunable IF' at the 80 M band, so no crystal required. Only three
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required to cover the original five HF bands, 11.0, 18.0 and 25.0 MHz. Cheap PC
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> xtals seemed to start at 40m.
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> broadcast radio?
>
>
> 73,
>
> Bill
>
>

[Non-text portions of this message have been removed]

5772. Re: [DrakeRadio] 2-B looks cool

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-02 00:39:29 UTC
From: Don Cunningham
Topic: 5769 Message: 5772

Bill,
I like to liken the 2B to the "Tonka Toys" of the era and a little before. It just "looks like a radio" to me and I have to have one in the shack even if I'm not using it. A kind gentleman that made QSL cards for me in Oklahoma City had one and a CW transmitter I can't even recall, but I can remember him making music with that pair when I would enter his shack!!! Such a sound.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5773. R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-03 20:27:03 UTC
From: Jose V. Gavila
Topic: 5773 Message: 5773

Hi all,

I am working on a nice R-7 receiver and have found that it distorts in SSB on the first word syllable. It is lots worse on M and F AGC settings, but also noticeable in slow setting.

Any hint to solve this problem?. An AGC mod perhaps?

Thanks and best regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

5774. TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 01:31:37 UTC
From: Don Cunningham
Topic: 5774 Message: 5774

I am reviving a 76xx serial number TR7 and having a problem that I haven't seen before. It is NOT the 8xxx serial number one that Garey has helped me with several times with a "feedback" in the audio during transmit scenario, this is yet another one that I shouldn't have bought, but it was filthy dirty, on Craig'slist and no one was biting on it, and it was supposedly one owner in good shape, HA HA.

On this one, I thought the readouts or DR7 board were defective, as some segments were unlit upon initial turn on. The unit receives just fine, and transmits fine, so I turned the PTO knob just to see if it changed frequency, and it did just fine. I was going to check another frequency (14.300) as I knew there would be activity and wanted to see if it were on frequency (it's low a bit, but not much). This is the strange part, when I turn the PTO dial, the missing segments would flicker on and off. As I turned it a few times, they started staying on!! Like there is a poor/missing ground in the PTO shaft (like the Drake service note). When the rig is warmed up, they seem to stay on, but I have not had the rig on long term as our daughter came last night for a short visit and I had to discontinue work on it.

Has anyone seen this before, and am I on the right track thinking I need to clean the shaft and add the braid to solve this?? I don't remember this particular issue being a part of that service note, but I have a poor memory anyway, hi. The PTO is much stiffer than most of my other TR7/R7 rigs, but not that bad.

Isn't it strange that so many PTO problems have risen their ugly heads lately??
73,
Don, WB5HAK

5775. Re: [DrakeRadio] TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 03:01:35 UTC
From: VE3AX/7
Topic: 5774 Message: 5775

Don":

I would re-flow the solder on the led module connections to the DR-7. They sometimes develop hairline cracks at the board. I have fixed several that way.

Peter
VE3AX/7

From: Don Cunningham
Sent: Saturday, September 03, 2011 6:31 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR7 Question About PTO and Digital Readout

I am reviving a 76xx serial number TR7 and having a problem that I haven't seen before. It is NOT the 8xxx serial number one that Garey has helped me with several times with a "feedback" in the audio during transmit scenario, this is yet another one that I shouldn't have bought, but it was filthy dirty, on Craig'slist and no one was biting on it, and it was supposedly one owner in good shape, HA HA.

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Has anyone seen this before, and am I on the right track thinking I need to clean the shaft and add the braid to solve this?? I don't remember this particular issue being a part of that service note, but I have a poor memory anyway, hi. The PTO is much stiffer than most of my other TR7/R7 rigs, but not that bad.

Isn't it strange that so many PTO problems have risen their ugly heads lately??
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5776. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 03:09:17 UTC
From: VE3AX/7
Topic: 5773 Message: 5776

Jose:

First thing I would do is run through the AGC alignment procedure. Sounds like the IF gain is up a bit too high and it is a very sensitive control! Located on the rear centre board. Garey will have other good ideas I am sure but thought I'd stick my neck out a bit. I've been too silent of late!

73

Peter
VE3AX/7

From: Jose V. Gavila
Sent: Saturday, September 03, 2011 1:27 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] R-7 SSB audio distortion

Hi all,

I am working on a nice R-7 receiver and have found that it distorts
in SSB on the first word syllable. It is lots worse on M and F AGC
settings, but also noticeable in slow setting.

Any hint to solve this problem?. An AGC mod perhaps?

Thanks and best regards,

JOSE
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73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
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[Non-text portions of this message have been removed]

5777. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 08:34:25 UTC
From: Jim Shorney
Topic: 5773 Message: 5777

Actually, the first thing with a refurb of any 7-Line equipment should be a clean and DeOxit of all the Molex PC board interconnects. They oxidize over time and can cause some strange problems, and any alignment should not be attempted until you know all the connections are good.

But Peter is correct, incorrect AGC alignment can cause distortion, and the IF gain adjustment is more critical in the R-7 than it is in the TR-7. The AGC alignment procedure for the R-7 seems incomplete, and there have been a couple of attempts published online to try to complete it. I'm still struggling with it a little bit myself, my R-7A still doesn't seem to be "just right", and I wold be happy if I could get the S-Meters in the R-7A and TR-7 to read within a couple of S-Units of each other (two seperate problems, actually). I'm wondering if Bill Frost can offer any wisdom on this.

73

-Jim

On Sat, 3 Sep 2011 20:09:17 -0700, VE3AX/7 wrote:

>Jose:
>
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>
>Peter
>VE3AX/7
>
>From: Jose V. Gavila
>Sent: Saturday, September 03, 2011 1:27 PM
>To: DrakeRadio@yahoogroups.com
>Subject: [DrakeRadio] R-7 SSB audio distortion
>
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>Hi all,
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>in SSB on the first word syllable. It is lots worse on M and F AGC
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>
>
>
>
>
>[Non-text portions of this message have been removed]
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>

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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5778. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 12:10:41 UTC
From: Bill Frost
Topic: 5773 Message: 5778

Hello Jim,

I can't be of much help with the R-7, as I was not on the bench when these were in production, I was behind a desk relying on my technical staff to service those that returned. I don't really recall the AGC causing problems, more failures in the power supply, as it really ran very warm. Lots of complaints about the heat. I fought with engineering on this and got no where. Other than that, we really didn't see to many R-7's being returned for service.

The TR-7 was my biggest concern and problem child. When it was first introduced the telephone rang off the hook, everyone was complaining about DRIFT, the slightest amount of drift was very easy to see with the digital display. And their 4-line didn't drift !!! Those first few months was the only time, I had seeked employment with another company, I was getting beat up on the phone every day. I kept getting told by engineering that "it's the same PTO as the 4-line, it doesn't drift".   I was hired and could have left, but decided to stick it out with Drake, glad I did, as the other company is no longer around (in Miamisburg).

73, Bill

From: Jim Shorney <jshorney@...>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Sunday, September 4, 2011 4:34 AM
Subject: Re: [DrakeRadio] R-7 SSB audio distortion

Actually, the first thing with a refurb of any 7-Line equipment should be a clean and DeOxit of all the Molex PC board interconnects. They oxidize over time and can cause some strange problems, and any alignment should not be attempted until you know all the connections are good.

But Peter is correct, incorrect AGC alignment can cause distortion, and the IF gain adjustment is more critical in the R-7 than it is in the TR-7. The AGC alignment procedure for the R-7 seems incomplete, and there have been a couple of attempts published online to try to complete it. I'm still struggling with it a little bit myself, my R-7A still doesn't seem to be "just right", and I wold be happy if I could get the S-Meters in the R-7A and TR-7 to read within a couple of S-Units of each other (two seperate problems, actually). I'm wondering if Bill Frost can offer any wisdom on this.

73

-Jim

On Sat, 3 Sep 2011 20:09:17 -0700, VE3AX/7 wrote:

>Jose:
>
>First thing I would do is run through the AGC alignment procedure. Sounds like the IF gain is up a bit too high and it is a very sensitive control! Located on the rear centre board. Garey will have other good ideas I am sure but thought Iâ€™d stick my neck out a bit. Iâ€™ve been too silent of late!
>
>73
>
>Peter
>VE3AX/7
>
>From: Jose V. Gavila
>Sent: Saturday, September 03, 2011 1:27 PM
>To: DrakeRadio@yahoogroups.com
>Subject: [DrakeRadio] R-7 SSB audio distortion
>
>
>Hi all,
>
>I am working on a nice R-7 receiver and have found that it distorts
>in SSB on the first word syllable. It is lots worse on M and F AGC
>settings, but also noticeable in slow setting.
>
>Any hint to solve this problem?. An AGC mod perhaps?
>
>Thanks and best regards,
>
>JOSE
>--
>73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
>Radio and Test Equipment....... http://jvgavila.com
>RadioRepair BLOG.............. http://radiorepair.blogspot.com
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>[Non-text portions of this message have been removed]
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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5779. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 14:29:47 UTC
From: Donnie
Topic: 5773 Message: 5779

Hi Peter:
Its been a good long while since we last talked. Nice to see your still kicking!

Regards, Donnie / WA9TGT

www.2bRadioParts.com

On Sat, Sep 3, 2011 at 11:09 PM, VE3AX/7 <ve3ax@...> wrote:

> **
>
>
> Jose:
>
> First thing I would do is run through the AGC alignment procedure. Sounds
> like the IF gain is up a bit too high and it is a very sensitive control!
> Located on the rear centre board. Garey will have other good ideas I am sure
> but thought I?d stick my neck out a bit. I?ve been too silent of late!
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> 73
>
> Peter
> VE3AX/7
>
> From: Jose V. Gavila
> Sent: Saturday, September 03, 2011 1:27 PM
> To: DrakeRadio@yahoogroups.com
> Subject: [DrakeRadio] R-7 SSB audio distortion
>
> Hi all,
>
> I am working on a nice R-7 receiver and have found that it distorts
> in SSB on the first word syllable. It is lots worse on M and F AGC
> settings, but also noticeable in slow setting.
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>

> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

5780. FS: Two Drake crystals $5.00

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 16:52:06 UTC
From: Bry Carling
Topic: 5780 Message: 5780

FOR SALE: Two useful Drake Crystals

24.600 MHz and 31.600 MHz - these are in excellent working condition, and will put your Drake 4-line radios on the following frequencies

The 24.6 MHz one covers 13.5 to 14.0 MHz
The 31.6 MHz one convers 20.5 to 21.0 MHz

I only have one each of these. A bargain for smomeone. They are not that comonly used and so they are priced accordingly at $5.00 each plus shipping.

Other drake 2-line and 4-line crystals are available.

http://www.af4k.com/crystals.htm

73 - Bry, AF4K

[Non-text portions of this message have been removed]

5781. FS: Three 160m crystals $3.50

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 17:13:14 UTC
From: Bry Carling
Topic: 5781 Message: 5781

FOR SALE: Three 160m crystals type hc6u

1801 kHz, 1843 kHz, 1942 kHz

Available for $3.50 each, but makes more sense to take all three for $10.00 plus shipping.

These look to be brand new and unused. Please contact me off the list.

More crystals here:
http://www.af4k.com/crystals.htm

73 - Bry Carling, AF4K

[Non-text portions of this message have been removed]

5782. RE: [DrakeRadio] FS: Two Drake crystals $5.00

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 17:25:13 UTC
From: Steve Finch - AI0W
Topic: 5780 Message: 5782

I☐ll take them if they are still available.

Steve Finch, AIØW

NFL Section Technical Coordinator
Homosassa Springs, FL
ai0w@...

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Bry Carling
Sent: Sunday, September 04, 2011 12:52 PM
To: dcboatanchors@...; drake-radio-operators@yahoogroups.com; drakelist@zerobeat.net; DrakeRadio@yahoogroups.com; Drake-Radios@yahoogroups.com
Subject: [DrakeRadio] FS: Two Drake crystals $5.00

FOR SALE: Two useful Drake Crystals

24.600 MHz and 31.600 MHz - these are in excellent working condition, and will put your
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5783. Re: [DrakeRadio] TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 18:17:38 UTC
From: Jim Shorney
Topic: 5774 Message: 5783

On Sat, 3 Sep 2011 20:31:37 -0500, Don Cunningham wrote:

>this is yet another one that I shouldn't have bought, but it was filthy
>dirty

I'll bet I have pics of one that was dirtier... :)

>This is the strange part, when I
>turn the PTO dial, the missing segments would flicker on and off. As I
>turned it a few times, they started staying on!! Like there is a
>poor/missing ground in the PTO shaft (like the Drake service note).

There is no direct connection, mechanical or electrical, between the PTO and the display. The display is a preset frequency counter that counts the VCO signal and displays it as actual operating frequency. Peter's comment is the first place to look, but the LED units are getting old enough that they can become intemittent internally as well. In that case, Willi, DF4NW, sells a primo replacement LED display unit using modern devices (whith your choice of color):

http://www.df4nw.de/

73

-Jim

--
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http://www.nebraskaghosts.org

5784. Re: [DrakeRadio] TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 18:54:23 UTC
From: Don Cunningham
Topic: 5774 Message: 5784

Thanks, Jim, Peter and all. I'll, as a matter of course in TR7's, reflow all the solder joints on the readouts and the troublesome "motherboard" connector as well as using DeOxit on the usual places while in there. I have a "stash" of the original readouts that I got in that group buy in the 90's on the Drakelist that John Loughmiller did of the remaining readouts found overseas, but I do know from experience how much of a pain that is to do. I should have a lifetime supply of the red, original ones.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5785. Re: [DrakeRadio] TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 19:05:17 UTC
From: Jim Shorney
Topic: 5774 Message: 5785

I have a set of the originals from John also, but I'll probably never use them! Willi's display looks so nice in comparison to the older LED technology of the originals that is should be called an "upgrade". My TR-7 has BLUE readouts!

73

-Jim

On Sun, 4 Sep 2011 13:54:23 -0500, Don Cunningham wrote:

>Thanks, Jim, Peter and all. I'll, as a matter of course in TR7's, reflow all the solder joints on the readouts and the troublesome "motherboard" connector as well as using DeOxit on the usual places while in there. I have a "stash" of the original readouts that I got in that group buy in the 90's on the Drakelist that John Loughmiller did of the remaining readouts found overseas, but I do know from experience how much of a pain that is to do. I should have a lifetime supply of the red, original ones.
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5786. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 19:18:02 UTC
From: Jim Shorney
Topic: 5773 Message: 5786

Hi Bill,

Thanks for the reply, and the story! Jeez, don't mention TR-7 drift, or you'll get those guys talking about their X-Lock gadgets again! :) Seriously, I think we are all glad that you decided to stick it out with Drake. What was the root cause of the drift in the early rigs?

I've noticed the power supply heat in the R-7, and have been thinking about adding a small fan to mine. Or, running it from an external DC supply.

Regarding the S-Meter, I noticed that there were several changes to the circuit through the TR-7 life, and into the R-7 as well. Do you have any knowledge of the reasons behind the changes? I've been pondering these issues for a while, and I know that the TR-7 and the R-7 are not "the same receiver" - I don't expect them to perform exactly the same, but it would be nice if they were "close" to each other in S-meter readings of the same signal. Maybe I'm just too picky.

I've been hoping that an R-7 "guru" would chime in. I suppose John Kriner probably has some answers, but he may not want to reveal his trade secrets to the masses.

73

-Jim

On Sun, 4 Sep 2011 05:10:41 -0700 (PDT), Bill Frost wrote:

>Hello Jim,
>
>I can't be of much help with the R-7, as I was not on the bench when these were in production, I was behind a desk relying on my technical staff to service those that returned. Â I don't really recall the AGC causing problems, more failures in the power supply, as it really ran very warm. Â Lots of complaints about the heat. Â I fought with engineering on this and got no where. Â Other than that, we really didn't see to many R-7's being returned for service. Â
>
>The TR-7 was my biggest concern and problem child. Â When it was first introduced the telephone rang off the hook, everyone was complaining about DRIFT, the slightest amount of drift was very easy to see with the digital display. Â And their 4-line didn't drift !!! Â Those first few months was the only time, I had seeked employment with another company, I was getting beat up on the phone every day. Â I kept getting told by engineering that "it's the same PTO as the 4-line, it doesn't drift". Â I was hired and could have left, but decided to stick it out with Drake, glad I did, as the other company is no longer around (in Miamisburg).
>
>73, Bill
>
>
>_____

>From: Jim Shorney <jshorney@...>
>To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
>Sent: Sunday, September 4, 2011 4:34 AM
>Subject: Re: [DrakeRadio] R-7 SSB audio distortion
>
>
>Actually, the first thing with a refurb of any 7-Line equipment should be a
>clean and DeOxit of all the Molex PC board interconnects. They oxidize over
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>of attempts published online to try to complete it. I'm still struggling with
>it a little bit myself, my R-7A still doesn't seem to be "just right", and I
>wold be happy if I could get the S-Meters in the R-7A and TR-7 to read within a
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>>VE3AX/7
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>>From: Jose V. Gavila
>>Sent: Saturday, September 03, 2011 1:27 PM
>>To: DrakeRadio@yahoogroups.com
>>Subject: [DrakeRadio] R-7 SSB audio distortion
>>
>>Â
>>Hi all,
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>>Any hint to solve this problem?. An AGC mod perhaps?
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>>[Non-text portions of this message have been removed]
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>Yahoo! Groups Links
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Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5787. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 19:39:37 UTC
From: Jose V. Gavila
Topic: 5773 Message: 5787

Hi all,

Thanks everyone for your help on this!. I have realigned the AGC and now it is better, even if not as good as I would like, as there is an slight cracking noise still sometimes on SSB and, on CW, with AGC set on FAST, the effect, as seen on an oscilloscope connected in parallel with the speaker, is very noticeable (as a distorted envelope). MEDIUM and SLOW 'look' lots better.

If I set AGC OFF and reduce RCVR GAIN, all is OK, so it really seems as an AGC problem.

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment..... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

5788. Re: [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 20:04:08 UTC
From: Richard Knoppow
Topic: 5773 Message: 5788

----- Original Message -----
From: "Jose V. Gavila" <eb5agv@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Sunday, September 04, 2011 12:39 PM
Subject: Re: [DrakeRadio] R-7 SSB audio distortion

> Hi all,
>
> Thanks everyone for your help on this!. I have realigned
> the AGC and
> now it is better, even if not as good as I would like, as
> there is an
> slight cracking noise still sometimes on SSB and, on CW,
> with AGC set
> on FAST, the effect, as seen on an oscilloscope connected
> in parallel
> with the speaker, is very noticeable (as a distorted
> envelope).
> MEDIUM and SLOW 'look' lots better.
>
> If I set AGC OFF and reduce RCVR GAIN, all is OK, so it
> really seems
> as an AGC problem.
>
> Regards,
>
> JOSE
> --

It might be useful to look at the AGC line with the
scope.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5789. Re: [DrakeRadio] TR7 Question About PTO and Digital Readout

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 20:08:32 UTC
From: Don Cunningham
Topic: 5774 Message: 5789

Yeah, I've seen the blue, green, yellow, etc etc. I'm just a traditionalist, I guess.
73

[Non-text portions of this message have been removed]

5790. Re: [Drakelist] [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 20:29:39 UTC
From: Garey Barrell
Topic: 5790 Message: 5790

Jose -

There are a couple of AGC setup 'rules'. One just says to set R1127 'fully clockwise' and then
never mentions it again. This is the AGC 'delay' setting, think the -1.34 VDC setting in the 4
series. This is the 'threshold', and the idea is to turn the AGC 'on' just slightly so it doesn't
'step' on , but rather just increases smoothly when a signal appears.

With no antenna, and the IF GAIN (R1138) fully counterclockwise, adjust R1127 counterclockwise until
the output noise JUST decreases. This tells you that the AGC is 'on', just barely.

The reason MEDIUM and SLOW 'look' better is that the AGC doesn't have time to get all the way back
to ZERO before the next syllable comes along.

Maybe someone else has a better explanation, but this is what works for me!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi all,
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> Thanks everyone for your help on this!. I have realigned the AGC and now it is better, even if not
> as good as I would like, as there is an slight cracking noise still sometimes on SSB and, on CW,
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>
>

5791. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-04 22:55:20 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5791

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5792. Re: [Drakelist] [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-05 00:27:27 UTC
From: Jim Shorney
Topic: 5790 Message: 5792

This is where some of the confusion arises. R1127 is called the "AGC Pedestal", and the service manual fails to complete the adjustment, as you describe. The service manual copy that I have says to set R1127 to the center of it's range in the "coarse tune", and the IF gain is left at one extreme if it's setting. If you proceed to the "final adjustmet", this is where R1127 is left "fully clockwise". Someone (I don't recall who, but it should be in the Drakelist archives) suggested that the adjustment to R1138 for maximum audio output, then -3 dB, is a typo and should be R1127. This seems to make sense. R1127 can also be adjusted in a similar manner to R1129 in the TR-7. Although the circuits are not identical, the effect should be the same.

I found a graph at http://www.cliftonlaboratories.com/receiver_agc_curves.htm that shows the AGC knee in the R-7, which seems to be around -100 to -110 dBm. IIRC, this came fairly close to adjusting R1127 via the "TR-7 method" in my unit. The IF gain setting is more critical to proper operation in the R-7 than the TR-7, and too much IF gain will cause the distortion effects that have been described, especially in FAST AGC; FWIW, I have seen at least two TR-7s that had likely been in for factory service, and came back with the IF gain set to max with no apparent issues. My R-7 still seem to be a little too high, I suspect,because the radio still doesn't sound quite right. Too little IF gain will result in a receiver that sounds "deaf" and/or low S-Meter readings, and readjusting the IF gain will probably require the other adjustments to be re-touched.

I'll have to dig through my notes and see what I finally came up with for an adjustment procedure, although my observations are colored by my quest to get the S-Meters to read reasonably close to each other between the TR-7 and the R-7 when "twinned". That may be a pipe dream. Proper adjustment of the IF gain in the R-7 is still somewhat of a mystery. Does anyone know John Kriner well enough to ask if he can shed any light on this subject?

It is important to note also that before any alignment is attempted, the +10V regulator should be spot on. Proper adjustment of the +10V is also critical to proper AGC adjustment in both radios.

73

-Jim

On Sun, 04 Sep 2011 16:29:39 -0400, Garey Barrell wrote:

>Jose -
>
>There are a couple of AGC setup 'rules'. One just says to set R1127 'fully clockwise' and then
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>> as good as I would like, as there is an slight cracking noise still sometimes on SSB and, on CW,
>> with AGC set on FAST, the effect, as seen on an oscilloscope connected in parallel with the
>> speaker, is very noticeable (as a distorted envelope). MEDIUM and SLOW 'look' lots better.
>>
>> If I set AGC OFF and reduce RCVR GAIN, all is OK, so it really seems as an AGC problem.
>>
>> Regards,
>>
>> JOSE
>> --
>> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
>> Radio and Test Equipment....... http://jvgavila.com
>> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>>
>>
>
>_____
>Drakelist mailing list
>Drakelist@...
>http://mailman.zerobeat.net/mailman/listinfo/drakelist

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5793. TR4C Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-06 02:13:10 UTC
From: Don Cunningham
Topic: 5793 Message: 5793

Just a note to help a future person in my shoes today. I took the TR4C that I had bought a couple of years ago off the shelf to play a little radio this afternoon. I had only used it a couple of times then put it back on the shelf to gather dust. I plugged in my AC4 power supply that I know is good (Heathkit shop rebuild) and used weekly on the C Line, turned it on and got a nice receive signal on 20m. I switched to the dummy load, checked the bias (100 mills), then switched to XCW and NADA!!!! No sidetone, no nothing.

Checked the sidetone control on the rear and it was turned off. Tried again, still NADA!!! Let it cook for a while, read the manual again for "rookie mistakes" and found none. Started wiggling tubes just for fun, before getting more serious about troubleshooting (it worked "last time I used it", you know) and when I got to the 6GX6, the receive signal improved to excellent and suddenly I had some drive into the dummy load!!!! Tuned her up, and made many nice contacts. LOADS of fun, with the oldster!!! Got "excellent audio" reports all afternoon on the Shure 444D, then it flaked out and transferred to the 7075 Drake mic, and continued. (I really think I just pulled a wire loose in the mic plug in all the excitement).

Moral of the story, check EVERYTHING when you haven't used a rig for some time. I WILL DeOxit the tube sockets, I swear I will, JUST as soon as I get tired of all these contacts HI HI.
73,
Don, WB5HAK

5794. Re: [DrakeRadio] TR4C Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-06 14:22:53 UTC
From: VE3AX/7
Topic: 5793 Message: 5794

Don:

To add to that great tip...

I have found many TR4-series that don’t receive, including my own when I take them off the shelf. While you’re De-Oxiting the tube sockets give that RX ANT switch a shot on the back lower left side (facing the radio). And put a solder lug on one of the mounting screws to keep the switch from moving, if there isn’t one already – I swear they self-migrate to the Ext RX position through the work of Murphy’s gremlins.

Same thing applies to the OSC switch on the SC-2 and SC-6 rx converters.

73

Peter
VE3AX/7

From: Don Cunningham
Sent: Monday, September 05, 2011 7:13 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] TR4C Info

Just a note to help a future person in my shoes today. I took the TR4C that I had bought a couple of years ago off the shelf to play a little radio this afternoon. I had only used it a couple of times then put it back on the shelf to gather dust. I plugged in my AC4 power supply that I know is good (Heathkit shop rebuild) and used weekly on the C Line, turned it on and got a nice receive signal on 20m. I switched to the dummy load, checked the bias (100 mills), then switched to XCW and NADA!!!! No sidetone, no nothing.

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Moral of the story, check EVERYTHING when you haven't used a rig for some time. I WILL DeOxit the tube sockets, I swear I will, JUST as soon as I get tired of all these contacts HI HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5795. Re: [DrakeRadio] TR4C Info

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-06 19:29:21 UTC
From: Don Cunningham
Topic: 5793 Message: 5795

Good point, Peter. That one has caught me MANY times, hi. You are right, I swear that switch is spring loaded toward the Ext RX position!!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5796. Re: [Drakelist] [DrakeRadio] R-7 SSB audio distortion

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-07 02:07:45 UTC
From: Jim Shorney
Topic: 5790 Message: 5796

Here is what John Kriner, via Bill Frost, has to say on the R-7 AGC alignment, reprinted with permission:

Boy, this is a lot to digest. But I'll try to answer the questions as I see them....

AGC pedestal is left all the way CW. I have argued with some folks who claim it must be re-adjusted. But this is the way I have always left it. And the S-meter calibration turns out to be perfect, and S+N/N far exceeds the specifications. 10dB drop in generator level equals an exact 10dB drop on the 'S' meter.

The TR-7 'S' meter can be adjusted for the same exact readings as the R-7. The TR-7 requires some additional 'fiddling', but you can achieve the exact same results without any type of compromise.

The results in the AGC 'F' mode of the R-7 are really normal. I can think of very few uses for this setting, and maybe someone with the smarts could change the T C for more acceptable results.

> I think I just "got it": The IF GAIN is being used to establish the AGC
> pedestal! Does that make sense?

Yes, it does.

Thanks to John for the helpful comments.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5797. WTB Drake R-4C cabinet

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-07 11:40:04 UTC
From: bruno_ortegat
Topic: 5797 Message: 5797

Hi to the list. I'm looking for a project (a Mr. RTTY terminal), the top and bottom cabinet pieces for a Drake R-4C. They don't have to be perfect, I can repaint them, ect. Of course, I would pay also the shipping cost to my QTH in Europe. Offers to my e-mail: brunieves@...
Thanks in advanced.
Bruno Ortega-EA7FEB

5798. WTB: Drake 2-C/2CQ

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-08 18:28:46 UTC
From: kiloyankee7sierra
Topic: 5798 Message: 5798

Hi all, looking for a very nice Drake 2-C receiver preferably with the calibrator and noise blanker installed. Also would like the Drake 2CQ multiplier. E-mail me if you have one you would be willing to sell.

73- NN7EE

Jeff

5799. Searching for Drake UV-3 Manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-09 01:32:48 UTC
From: J
Topic: 5799 Message: 5799

Searching for a soft copy of a Drake UV-3 manual.
Willing to trade any maunals I have in return. Let
me know what you need

thanks

J

5800. FS: Antenna Selector Switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-09 20:14:02 UTC
From: Bry Carling
Topic: 5800 Message: 5800

FOR SALE: Antenna Selector Switch

Phasing switch used for selecting XMTR - AUX - HORIZONTAL - VERTICAL
Has four SO-239 connectors. Perhaps used with a Moonraker or similar
antenna. $5.00 plus shipping

[Non-text portions of this message have been removed]

5801. Uh-oh, now I've done it!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-10 18:42:17 UTC
From: billykatzz
Topic: 5801 Message: 5801

Well, I think I fried my finals.

Yesterday I finally got around to hanging up my latest homebrew G5RV attempt with the hopes it would get me on 80 meters. However, even with my MN4 matching unit, I couldn't get a low enough match. I was playing around trying to tune up the rig into the antenna on 80 for maybe 4-5 minutes.

I may have pushed the finals too much, because now on the other bands I can't get the plate reading any higher than .3 amps and the wattmeter shows only about 100 watts out, whereas before I was usually getting readings of 130 to 140 output.

So what's the consensus, fried tubes or worse?

Bill in Pasadena
NK6Q

5802. Re: [DrakeRadio] Uh-oh, now I've done it!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-10 18:54:51 UTC
From: Don Cunningham
Topic: 5801 Message: 5802

Bill,
You need to elaborate which radio so we know what we are talking about.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5803. Re: [DrakeRadio] Uh-oh, now I've done it!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-10 19:00:06 UTC
From: Garey Barrell
Topic: 5801 Message: 5803

Bill -

Probably. Messing with an antenna tuner should ALWAYS be done at reduced power. TUNE mode, which
limits the screen current, is best, with the GAIN turned as low as possible while still getting
enough of an indication to determine whether you're making the match better or worse. A good 'rule
de thumb' is to keep the RESONANT plate current down around 150 mA. If the antenna is matched at
30W, it'll be matched at 130W....

Tuning the transmitter into a 50 ohm load in TUNE, then reducing the gain to the minimum as above,
and THEN start twisting on the tuner knobs.

Some start by tuning in a signal in receive, then adjusting various tuner controls for maximum
signal strength to get you 'in the ball park', but I find it simpler to just keep the power down,
and move quickly. This is one good use for a 'modern' transmitter that has a 'fold-back' on the PA!!!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
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>
> So what's the consensus, fried tubes or worse?
>
> Bill in Pasadena
> NK6Q

>
>

5804. Re: [DrakeRadio] Uh-oh, now I've done it!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-10 19:03:13 UTC
From: Richard Knoppow
Topic: 5801 Message: 5804

----- Original Message -----
From: "billykatzz" <rsilvercat@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Saturday, September 10, 2011 11:42 AM
Subject: [DrakeRadio] Uh-oh, now I've done it!

> Well, I think I fried my finals.
>
> Yesterday I finally got around to hanging up my latest
> homebrew G5RV attempt with the hopes it would get me on 80
> meters. However, even with my MN4 matching unit, I
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> trying to tune up the rig into the antenna on 80 for maybe
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> other bands I can't get the plate reading any higher than
> .3 amps and the wattmeter shows only about 100 watts out,
> whereas before I was usually getting readings of 130 to
> 140 output.
>
> So what's the consensus, fried tubes or worse?
>
> Bill in Pasadena
> NK6Q
>

It would help to know which equipment this is. Also,
are you measuring your power into a dummy load? If so have
you checked the load (most can be checked for DC
resistance). Also check the coax between transmitter and
load.
If you operated the tubes into a high SWR load with
much output you may have overheated them. Most Drake rigs
use TV sweep tubes which do not have much of a safety
margin. If the plates become visibly red even for a short
time its likely the tubes have gone bad. The ultimate test
is to swap the tubes for known good ones.

--
Richard Knoppow
Los Angeles, CA, USA
dickburk@...

5805. Re: [DrakeRadio] Uh-oh, now I've done it!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-10 19:22:32 UTC
From: Don Cunningham
Topic: 5801 Message: 5805

The dummy load tip is one that should be on here often, and it's such a habit to me that I forget to mention it. ALSO, as cheaply as they can be bought on the used market anymore, an antenna analyzer for HF should become as common as the wattmeter, in Don's humble opinion. I always tune the antenna first with the analyzer, through whatever tuner, coax, wattmeter, etc I will have in line when using the rig. That way it should be VERY close when the transmitter sees it AND I can see bad coaxes, wierd impedances if something is amiss with the antenna, etc.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5806. Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-11 23:42:04 UTC
From: yg@internetsmallfry.com
Topic: 5806 Message: 5806

Good evening, all.

I've been into boat anchors for a little while (Hammarlund and Collins, mostly) but I don't know much that's worth knowing about Drake.

I wanted a TR-3 and AC-3 power supply because I'm told that the TR-3 was the last of the Drake transceivers that was all tubes, is that right?

I have a line on a TR-3 with remote VFO and AC power supply for $325, claimed to be in good condition and fully functional, and I am researching to see if that is a fair price. From some of the discussion on this list, it seems that might be a bit high. I saw one photo of the face of the radio and it looked pretty good, but of course there could be lots of dings on the case and corrosion on the chassis and I'd never know that from just one photo of the face.

What do you all think? What should I look for to make it be worth $325?

Also, I'm told that the TR-3 and TR-4 use sweep tubes for the finals. From all reports, many or most of the sweep tubes are rather hard to come by and expensive when found (discovered that in researching a Dentron GLA-1000B a couple of years ago). Are the TR-3 finals, or any of the other parts that should be common (e.g. the other tubes) hard to find?

If I do find a TR-3 at a good price, what kinds of issues and problems that are unique to that radio should I expect to have to deal with?

Thanks to all...

Rick WA1RKT

5807. Wtb: TR-22 crystal 146.07T 12.1725 Mhz

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 03:01:44 UTC
From: WA9WHD
Topic: 5807 Message: 5807

If you have a spare 146.07T working crystal from a TR-22 please contact me at wa9whd@....
Must have a fundamental frequency of 12.1725 Mhz. Please advise cost shipped to 33559 (Lutz, Fl)

73 - wa9whd - John

5808. Re: [DrakeRadio] Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 03:24:36 UTC
From: Garey Barrell
Topic: 5806 Message: 5808

Rick -

I would advise against the TR-3. It was the _FIRST_ tube transceiver from Drake, and was designed
for mobile SSB use. There is no semi-breakin on CW as in all the rest of the Drake gear, a panel
FUNCTION switch has to be turned from transmit to receive. Of course the only filter is 2.5 or so
kHz wide, again suitable for SSB. The filter(s) also are only four pole crystal filters, so
considerably broader than the eight pole used in ALL the TR-4 series. This also makes it's
compliance with current FCC requirements for 'Purity of Emissions', which is the case with all the 4
Series transmitters. They are all 'grandfathered in', and hams don't seem to pay much attention to
the FCC any more anyway, but if you pride yourself on a clean signal with excellent carrier and
unwanted sideband suppression, the TR-4 is a better choice, for s/n 24000 and up. If you want it
for SSB ONLY it would be 'sorta' ok. It uses 12JB6 PA tubes which are even scarcer than the 6JB6
tubes used in ALL the other Drake transmitters.

The TR-4 is a much better transceiver, but it is still primarily an SSB radio for mobile use. The
CW semi-breakin was added, but still only the SSB filter bandwidth for receiving. The TR-4C is
somewhat better, but really not all that much different. The block diagram is the same, and aside
from the dual dial discs and a light or two, not all that different.

Drake finally added a CW filter (500 Hz) for the TR-4CW, and it didn't take long to realize if you
were going work CW with it you needed an RIT to keep your contact within the receiver passband,
hence the TR-4CwRIT. Of course you could use the RV-3/4 with these, but then you're back to two
boxes anyway, not a very good mobile setup!

Yes, PA tubes are expensive, but have you priced a 'new' 6146 lately?? The 6JB6 IS a horizontal
output tube for TV. They are considerably higher 'perveance' than the 6146, which is one reason
they were chose. What this means is that they draw large plate currents at relatively low voltage,
e.g., 350 mA at 650 VDC, compared with 220 mA or so at the 750-800 VDC of the 6146 based
transmitters. There wasn't really that much difference in the cost of the two tubes back

then, but
savings in high voltage components WERE significant. The very fact that made the 6JB6 attractive is
what makes it easy to 'kill' them with careless tuning. A pair of 6JB6s will draw well over an Amp
of plate current at 650 VDC if operated off resonance. This will kill them pretty quickly. On the
other hand, if you tune carefully, and quickly, and don't try to load the 'wrong' antenna, they will
last for many years. I have 6JB6's that have been in use for over 20 years and still going strong.

For home use, UNLESS you are an SSB only op, you are MUCH better off with any of the R-4A - R-4C
receivers, along with one of the T-4X(any) transmitters. I would recommend against the TR-3 or
early TR-4s if you take pride in your on-air signal.

Feel free to ask questions if I haven't answered them...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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yg@... wrote:
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>
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that radio should I expect to have to deal with?
>
> Thanks to all...
>
> Rick WA1RKT
>

5809. Re: Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 03:50:42 UTC
From: yg@internetsmallfry.com
Topic: 5806 Message: 5809

Good evening, Garey.

Thank you for the detailed response. I learned a lot just in the last 10 minutes! :-)

I think my inclinations were to either a TR-3 (because it is all tubes) or the latest TR-4 I can find with RIT. Anything in between... doesn't really hold a lot of interest from me right now. Maybe a late-model T4-R4 pair but I've been looking mostly at transceivers so far. I actually don't care all that much if it has the remote VFO... only reason I was considering it is that earlier today I heard of a guy that had a TR-3 / RV-3 plus power supply for sale but I learned this evening that it has been sold anyway so it's moot.

I am planning on this for SSB only. I have four rice boxes (a Yaesu and three Kenwoods) that work perfectly fine on CW, three of the four have built-in keyers, and I also have a Hammarlund HQ-180A and am restoring a DX-100B which will be used primarily for CW... no semi-break-in there! :-)

I'm still working on rounding out my Collins setup (need a 51S-1 or 51J-4 to complete it) and I'm not sure I'm going to have the room or the funds to get into Drake right now, but I do want to do it eventually and I really appreciate you guys being here.

Rick WA1RKT

5810. Re: [DrakeRadio] Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 12:13:26 UTC
From: Donnie
Topic: 5806 Message: 5810

Garey:

*A well composed **synopsis of the differences** between the Drake TR3 and TR4 transceivers. *
*
*
Personally I've* always avoided even the early TR-4's because of the soup can crystal filter. Also even the next series, the version that had the the one piece solid module 6 pole dual crystal filter. *
*
*
*It seems that about 80~90% of the time these earlier versions almost always seem to have at least one or both of the 2 crystal filters that's **gone way off its original designed center frequency thus creating a problem. *
*
*
Personally I never cared for any of the TR4's on CW. Ill take a set of properly working A or B-Line Drake twins any day for CW and be most happy!
*
*
I've* never tried to actually narrow down the serial number breaking points in the TR-4 series that would *somewhat* isolate the different crystal filter versions. I guess *that's* another project for another time...*

These are just my own personal findings of course.

Donnie

On Sun, Sep 11, 2011 at 11:24 PM, Garey Barrell <k4oah@...>wrote:

> **
>
>
> Rick -
>
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> early TR-4s if you take pride in your on-air signal.
>
> Feel free to ask questions if I haven't answered them...
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
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> mostly) but I don't know much that's worth knowing about Drake.
> >
> > I wanted a TR-3 and AC-3 power supply because I'm told that the TR-3 was
> the last of the Drake transceivers that was all tubes, is that right?
> >
> > I have a line on a TR-3 with remote VFO and AC power supply for $325,
> claimed to be in good condition and fully functional, and I am researching
> to see if that is a fair price. From some of the discussion on this list, it
> seems that might be a bit high. I saw one photo of the face of the radio and
> it looked pretty good, but of course there could be lots of dings on the
> case and corrosion on the chassis and I'd never know that from just one
> photo of the face.
> >
> > What do you all think? What should I look for to make it be worth $325?
> >
> > Also, I'm told that the TR-3 and TR-4 use sweep tubes for the finals.
> From all reports, many or most of the sweep tubes are rather hard to come by
> and expensive when found (discovered that in researching a Dentron GLA-1000B
> a couple of years ago). Are the TR-3 finals, or any of the other parts that
> should be common (e.g. the other tubes) hard to find?
> >
> > If I do find a TR-3 at a good price, what kinds of issues and problems
> that are unique to that radio should I expect to have to deal with?
> >
> > Thanks to all...
> >
> > Rick WA1RKT
> >
>
>

--
www.2bRadioParts.com

[Non-text portions of this message have been removed]

5811. Re: [DrakeRadio] Re: Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 13:50:50 UTC
From: Garey Barrell
Topic: 5806 Message: 5811

Rick -

OK. Well, ALL of the four line equipment has tubes through the RF and IF stages, and up through the
R-4B this goes through the audio (via a single shhhhh SS voltage amplifier, which is one reason you
can listen to an R-4B or earlier all day long without a headache....

There are twelve (12) versions of the TR-4, with each succeeding version have another stage or two
(again oscillators and detection circuits) converted to SS. There is essentially no difference in
the block diagram from beginning to end, with the exception of the CW features. If you are only
interested in SSB, any of the versions 4 - 8 of the TR-4 would be fine. The C offers only the dual
dial to differentiate it operationally. So one in that range would definitely be a better buy. The
CW and CW/RIT versions are identical to the earlier ones, with the exception of the CW features, so
really wouldn't offer you much. Also, since so few of these two models were sold, they have become
quite a bit more expensive than the non-CW types.

My 'newest' radio is a 1985 Kenwood TS-940SAT, which is a terrific radio that does everything I
could want to do. I love it for CW, and have used it for PSK31, RTTY, SSTV, and just about
everything in between over the years. It even 'looks' like a radio, not a DVD or DVR, or
microwave!! BUT, it has no soul. There are NO tubes aside from the display, and there is nothing
to do but twist the knobs. I operate about 95% CW, and prefer my B-Line over the other 18 stations
that I could set up if I had room! Everything from an AT-1 / AR-3 to a 75S-3B / 32S-3. I did sell
my DX-100B and 32V-3, along with the Globe King 500, I just can't haul those big things around any
more. The HQ-129X, HQ-140X, SX-100 and NC-300 are about my limit. I'm afraid I'm still of the
opinion that "If you can't dip the plate, it ain't Ham Radio." :-)

Welcome to the Drake world, and come back any time.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

yg@... wrote:
> Good evening, Garey.
>
> Thank you for the detailed response. I learned a lot just in the last 10 minutes! :-)
>
> I think my inclinations were to either a TR-3 (because it is all tubes) or the latest TR-4 I can find with RIT. Anything in between... doesn't really hold a lot of interest from me right now. Maybe a late-model T4-R4 pair but I've been looking mostly at transceivers so far. I actually don't care all that much if it has the remote VFO... only reason I was considering it is that earlier today I heard of a guy that had a TR-3 / RV-3 plus power supply for sale but I learned this evening that it has been sold anyway so it's moot.
>
> I am planning on this for SSB only. I have four rice boxes (a Yaesu and three Kenwoods) that work perfectly fine on CW, three of the four have built-in keyers, and I also have a Hammarlund HQ-180A and am restoring a DX-100B which will be used primarily for CW... no semi-break-in there! :-)
>
> I'm still working on rounding out my Collins setup (need a 51S-1 or 51J-4 to complete it) and I'm not sure I'm going to have the room or the funds to get into Drake right now, but I do want to do it eventually and I really appreciate you guys being here.
>
> Rick WA1RKT
>
>
>

5812. Re: Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 14:23:05 UTC
From: fred
Topic: 5806 Message: 5812

My TR3 works well and I have gotten complements on the audio quality . It's only drawback is that it has three 12JB6 horizontal amplifier tubes which are hard to come by and getting expensive . the TR4 uses the 6JB6 that are easier to locate . also I have found that only the sylvania brand work properly and drake specifies the sylvania brand . there is a 13DE7 , I think , and it is kind of an oddball tube . have never used it mobile even though I do have the DC3 supply . it is rather large for the S10 pickup .
I do not really recommend the TR3 , there are better ones available even if they are hybrids . It is a good piece of american iron .
andrew
kd5pnt

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Rick -
>
> OK. Well, ALL of the four line equipment has tubes through the RF and IF stages, and up through the
> R-4B this goes through the audio (via a single shhhhh SS voltage amplifier, which is one reason you
> can listen to an R-4B or earlier all day long without a headache....
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> There are twelve (12) versions of the TR-4, with each succeeding version have another stage or two
> (again oscillators and detection circuits) converted to SS. There is essentially no difference in
> the block diagram from beginning to end, with the exception of the CW features. If you are only
> interested in SSB, any of the versions 4 - 8 of the TR-4 would be fine. The C offers only the dual
> dial to differentiate it operationally. So one in that range would definitely be a better buy. The
> CW and CW/RIT versions are identical to the earlier ones, with the exception of the CW features, so
> really wouldn't offer you much. Also, since so few of these two models were sold, they have become
> quite a bit more expensive than the non-CW types.
>
> My 'newest' radio is a 1985 Kenwood TS-940SAT, which is a terrific radio that does everything I
> could want to do. I love it for CW, and have used it for PSK31, RTTY, SSTV, and just about
> everything in between over the years. It even 'looks' like a radio, not a DVD or DVR, or
> microwave!! BUT, it has no soul. There are NO tubes aside from the display, and there is nothing
> to do but twist the knobs. I operate about 95% CW, and prefer my B-Line over the other 18

stations
> that I could set up if I had room! Everything from an AT-1 / AR-3 to a 75S-3B / 32S-3. I did sell
> my DX-100B and 32V-3, along with the Globe King 500, I just can't haul those big things around any
> more. The HQ-129X, HQ-140X, SX-100 and NC-300 are about my limit. I'm afraid I'm still of the
> opinion that "If you can't dip the plate, it ain't Ham Radio." :-)
>
> Welcome to the Drake world, and come back any time.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> yg@... wrote:
> > Good evening, Garey.
> >
> > Thank you for the detailed response. I learned a lot just in the last 10 minutes! :-)
> >
> > I think my inclinations were to either a TR-3 (because it is all tubes) or the latest TR-4 I can find with RIT. Anything in between... doesn't really hold a lot of interest from me right now. Maybe a late-model T4-R4 pair but I've been looking mostly at transceivers so far. I actually don't care all that much if it has the remote VFO... only reason I was considering it is that earlier today I heard of a guy that had a TR-3 / RV-3 plus power supply for sale but I learned this evening that it has been sold anyway so it's moot.
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> > I am planning on this for SSB only. I have four rice boxes (a Yaesu and three Kenwoods) that work perfectly fine on CW, three of the four have built-in keyers, and I also have a Hammarlund HQ-180A and am restoring a DX-100B which will be used primarily for CW... no semi-break-in there! :-)
> >
> > I'm still working on rounding out my Collins setup (need a 51S-1 or 51J-4 to complete it) and I'm not sure I'm going to have the room or the funds to get into Drake right now, but I do want to do it eventually and I really appreciate you guys being here.
> >
> > Rick WA1RKT
> >
> >
> >
>

5813. 7 Line Accessory

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 17:09:13 UTC
From: Jim Chaggaris
Topic: 5813 Message: 5813

Nice coax switch to round out your TR-7 line-up. Happy bidding!

http://www.ebay.com/itm/DRAKE-CS-7-CS7-REMOTE-LOCAL-COAX-SWITCH-/120776649471?pt=LH_DefaultDomain_0&hash=item1c1ed96aff

73

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Ave. Suite 203
St. Charles, IL 60174
Phn: 630-443-6500
Cell: 630-669-2241
Fax: 630-443-6505
Website: www.pwrone.com

5814. Re: [DrakeRadio] 7 Line Accessory

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-12 17:58:20 UTC
From: Les Zwiebel WB6ORZ
Topic: 5813 Message: 5814

A bargain. Heck, at that price, gimme' two!
(((((73)))))
Les
---===WB6ORZ===---

----- Original Message -----
From: Jim Chaggaris
To: DrakeRadio@yahoogroups.com
Sent: Monday, September 12, 2011 10:09 AM
Subject: [DrakeRadio] 7 Line Accessory

Nice coax switch to round out your TR-7 line-up. Happy bidding!

http://www.ebay.com/itm/DRAKE-CS-7-CS7-REMOTE-LOCAL-COAX-SWITCH-/120776649471?pt=LH_DefaultDomain_0&hash=item1c1ed96aff

73

Jim N9WW

James Chaggaris
President
PowerOne Corp./PowerOne Environmental
1020 Cedar Ave. Suite 203
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Phn: 630-443-6500
Cell: 630-669-2241
Fax: 630-443-6505
Website: www.pwrone.com

[Non-text portions of this message have been removed]

5815. Re: Questions about TR-3 (worth, etc.)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-14 00:07:31 UTC
From: jb
Topic: 5806 Message: 5815

> I do not really recommend the TR3 , there are better ones available even if they are hybrids . It is a good piece of american iron .
> andrew
> kd5pnt
>

Ahhh! A REAL boat anchor then! =) I have picked up a couple of older relics that wouldn't be anyones choice of operation today but like them just for the history and "cool factor". I wasn't around to see how Ham progressed but, by collecting a few boatanchors I can kind of witness it some now. Just wished the propogation would let me really go to town.

Understanding a little more all the time on these things. Thanks guys.

God bless
73
jb
kg6biw

5816. FS: $1.00 ham band crystals

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-14 22:21:21 UTC
From: Bry Carling
Topic: 5816 Message: 5816

FOR SALE: $1.00 ham band crystals etc.
Limited quantities. Please consider buying 4 or more to make the shipping costs worthwhile.

1942 kHz - Type hc6u crystals - QTY 2 available

3547 kHz hc33u crystals (same as hc6u with wire leads) - QTY 10 available

3579 kHz hc33u crystals (same as hc6u with wire leads) - QTY 4 available

7072 kHz - Type hc6u crystal - QTY 1 available

7094 kHz - Type hc6u crystal - QTY 1 available

The above are all just $1.00 each.

Also available:

1835 kHz - Type hc6u crystal - QTY 1 available for $6.00

7050 kHz - Type hc6u crystal - QTY 1 available for $6.00

13.600 MHz Drake crystal - Type hc6u crystal - QTY 1 available for $9.00

Shipping additional for each of these. Combine to save on shipping.

73 & thanks for looking - Bry, AF4K

[Non-text portions of this message have been removed]

5817. TR 7. filters 5695 as R4C 1st I.F. ???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-18 16:47:29 UTC
From: cd40105
Topic: 5817 Message: 5817

Hi, I think this idea may work? although I got the sherwood 600 Hz first IF filter some years ago, I couldn't let a Drake TR7 go to someone else in the U.K. What with a 300 HZ filter at 5695 Khz, I'm hoping this will fit in a 2nd R4C if I can make up a switchable filter
board and relay. I wonder if anyone else has thought about doing this??

73 de ian G3YRQ.

5818. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-19 00:15:13 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5818

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5819. Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-19 02:28:28 UTC
From: joelweder
Topic: 4129 Message: 5819

Hi folks,

I've been cleaning up my TR-3, after pulling it out of storage. Replaced my old power supply with the AC-4 power supply kit. After I proved the rig worked normally, I decided to move on to the TR-4 relay kit. I bought it a few years ago but have forgotten where. (maybe on eBay?)

I've run into a problem with this kit and am hoping that someone else who's done this already might have a thought or two about how to proceed. I am guessing the kit was designed by John Kriner KA8GSP, but the instruction sheet has no contact information.

The circuit board that comes with the kit is supposed to slide down over six feedthrough terminals and sit in the L shaped bracket that held the old relay. (and holds the SO-239)

The problem is that the board is just a little bit too long, or perhaps the hole placement isn't quite right. Once I get the first few feedthrough terminals thru the holes in the board, the board is jammed against the L bracket (near L9) and is still up at about a 30 degree angle.

I can see that the holes need to be maybe 1/8" closer to the relay socket. My options are to drill out the holes (and possibly mess up the traces on the bottom of the board), try to bend the thick and possibly fragile terminals, or try to move the side of the L bracket closest to L9. (which might cause interaction with L9, or at the least the results could be ugly!)

It's been quite a while since I bought this kit but I had thought it was supposed to work with the TR-3. Any thoughts from someone who's done this before would be greatly appreciated!

Joel
VE6EI

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has
> any of them left or not. Small PC board that mounts over the
> feedthrough insulators of the old relay, and has the 'standard' P & B
> plug-in relay, R10-E1-Y4-V2.5k.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

>
> w5rkl wrote:
> > Anyone know of a replacement relay for the T4XB?
> >
> > 73s
> > Mike
> > W5RKL
> >
> >
>

5820. FS: FT243 crystals (older)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-24 16:24:35 UTC
From: Bry Carling
Topic: 5820 Message: 5820

FS: Several older, original WW2 - 1950s era ham band FT243 crystals in the
old popular brands: Bliley, JK, PR, JAN, Monwatt, MP, Standard Piezo, Quartz Prod. etc.

1896.5, 1940, 1955, 1977.5, 3701, 3740 kHz

7000, 7006, 7125, 7140, 7150, 7152, 7174, 7175 kHz
7190, 7194, 7200, 7207, 7209, 7225, 7238, 7249 kHz

8375, 8400, 8425 kHz

Most of these I have one each, and a few I have two or three available.
Inquire. These are available for $14.00 each plus shipping.

73 & thanks for looking,

Bry, AF4K

[Non-text portions of this message have been removed]

5821. Drake TR4 cw shift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 16:52:10 UTC
From: Juan
Topic: 5821 Message: 5821

Hello,
I have bought a second hand Drake TR4 and I have noticed that the CW rx shift is more than 1 Khz. The sidetone adjust affects your own monitoring but has not effect in the real shift of the trasnmission.
The question is: Do you know if there is some mod or procedure to reduce this shift to a normal level, so to speak 500 or 600 Hz?
Many thanks in advance.
Juan
EA5BLP

5822. Re: [DrakeRadio] Drake TR4 cw shift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 20:10:53 UTC
From: Garey Barrell
Topic: 5821 Message: 5822

Juan -

The CW shift is normally about 800-900 Hz. The amount of shift is determined by C84, which is
switched in series with the 9.0 MHz Carrier Oscillator crystal, shifting it up to ~9.001 MHz, by
closing relay K2. The CO must be shifted by about that amount to move it from it's SSB position
(centered between the Upper and Lower crystal filters) to within the passband of the LSB filter.
The Balanced Oscillator is then unbalanced by a variable DC current controlled by the XMIT GAIN
control on the front panel, allowing the CO signal to increase from it's normal SSB 'null' setting
so it may be amplified as the transmitted signal.

So the amount of shift must be sufficient to get the CO signal past the stop band of the LSB filter,
and into the passband. The amount of shift 'may' be changed by changing the value of C84 to a
smaller capacitance, BUT if you go too far you will lose CW drive as the CO is further down the
filter slope. The ~900 Hz shift was chosen to be 'well within' the passband to allow for various
tolerances in filters, CO frequencies, etc.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Juan wrote:
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> The question is: Do you know if there is some mod or procedure to reduce this shift to a normal level, so to speak 500 or 600 Hz?
> Many thanks in advance.
> Juan
> EA5BLP
>
>

5823. Re: [DrakeRadio] Drake TR4 cw shift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 20:35:23 UTC
From: Donnie
Topic: 5821 Message: 5823

Garey:
Seems like I did some experimenting one time and I was able to get to the shift down to about 750 htz before I started to loose noticable drive but that was about as far as I could get by with.

The 1000htz was just too much for most folks on cw and caused too large of a miss match with other cw stations that typically had about a 700 htz shift.

Great explination on how it all works Garey!

Donnie

www.2bRadioParts.com
Sent by a Droid X
On Sep 26, 2011 4:11 PM, "Garey Barrell" <k4oah@...> wrote:
> Juan -
>
> The CW shift is normally about 800-900 Hz. The amount of shift is determined by C84, which is
> switched in series with the 9.0 MHz Carrier Oscillator crystal, shifting it up to ~9.001 MHz, by
> closing relay K2. The CO must be shifted by about that amount to move it from it's SSB position
> (centered between the Upper and Lower crystal filters) to within the passband of the LSB filter.
> The Balanced Oscillator is then unbalanced by a variable DC current controlled by the XMIT GAIN
> control on the front panel, allowing the CO signal to increase from it's normal SSB 'null' setting
> so it may be amplified as the transmitted signal.
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> So the amount of shift must be sufficient to get the CO signal past the stop band of the LSB filter,
> and into the passband. The amount of shift 'may' be changed by changing the value of C84 to a
> smaller capacitance, BUT if you go too far you will lose CW drive as the CO is further down the
> filter slope. The ~900 Hz shift was chosen to be 'well within' the passband to allow for various
> tolerances in filters, CO frequencies, etc.
>
> 73, Garey - K4OAH
> Glen Allen, VA
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> <www.k4oah.com>
>
>
> Juan wrote:
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>> The question is: Do you know if there is some mod or procedure to reduce this shift to a normal level, so to speak 500 or 600 Hz?
>> Many thanks in advance.
>> Juan
>> EA5BLP
>>
>>

[Non-text portions of this message have been removed]

5824. Re: [DrakeRadio] Drake TR4 cw shift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 20:54:55 UTC
From: Juan Peiro
Topic: 5821 Message: 5824

Dear Garey and Doney,Thank you very much for your kind expalanations. I will try to play a little bit with the circuit carefully. Perhaps I could edjust a more confortable shift within the filter passband testing diffrent values on C84,.Very clear expalanation, my friend.

Juan

EA5BLP

http://www.youtube.com/user/ea5blp

--- El lun, 26/9/11, Donnie <cfzepp@...> escribió:

De: Donnie <cfzepp@...>
Asunto: Re: [DrakeRadio] Drake TR4 cw shift
Para: DrakeRadio@yahoogroups.com
Fecha: lunes, 26 de septiembre, 2011 20:35

Garey:

Seems like I did some experimenting one time and I was able to get to the

shift down to about 750 htz before I started to loose noticable drive but

that was about as far as I could get by with.

The 1000htz was just too much for most folks on cw and caused too large of a

miss match with other cw stations that typically had about a 700 htz shift.

Great explination on how it all works Garey!

Donnie

www.2bRadioParts.com

Sent by a Droid X

On Sep 26, 2011 4:11 PM, "Garey Barrell" <k4oah@...> wrote:

> Juan -

>

> The CW shift is normally about 800-900 Hz. The amount of shift is

determined by C84, which is

> switched in series with the 9.0 MHz Carrier Oscillator crystal, shifting

it up to ~9.001 MHz, by

> closing relay K2. The CO must be shifted by about that amount to move it

from it's SSB position

> (centered between the Upper and Lower crystal filters) to within the

passband of the LSB filter.

> The Balanced Oscillator is then unbalanced by a variable DC current

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> control on the front panel, allowing the CO signal to increase from it's

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> So the amount of shift must be sufficient to get the CO signal past the

stop band of the LSB filter,

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the value of C84 to a

> smaller capacitance, BUT if you go too far you will lose CW drive as the

CO is further down the

> filter slope. The ~900 Hz shift was chosen to be 'well within' the

passband to allow for various

> tolerances in filters, CO frequencies, etc.

>

> 73, Garey - K4OAH

> Glen Allen, VA

>

> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

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> <www.k4oah.com>

>

>

> Juan wrote:

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>> The question is: Do you know if there is some mod or procedure to reduce this shift to a normal level, so to speak 500 or 600 Hz?

>> Many thanks in advance.

>> Juan

>> EA5BLP

>>

>>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5825. Re: [DrakeRadio] Drake TR4 cw shift

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 21:04:07 UTC
From: Garey Barrell
Topic: 5821 Message: 5825

Donnie -

Yeah, it all comes back to the fact that the TR-4 series is an "SSB TRANSCEIVER FOR MOBILE USE"!! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Donnie wrote:
> Garey:
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> shift down to about 750 htz before I started to loose noticable drive but
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>
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> Great explination on how it all works Garey!
>
> Donnie
>
> www.2bRadioParts.com
> Sent by a Droid X
> On Sep 26, 2011 4:11 PM, "Garey Barrell"<k4oah@...> wrote:
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>>
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> determined by C84, which is
>> switched in series with the 9.0 MHz Carrier Oscillator crystal, shifting
> it up to ~9.001 MHz, by
>> closing relay K2. The CO must be shifted by about that amount to move it
> from it's SSB position
>> (centered between the Upper and Lower crystal filters) to within the
> passband of the LSB filter.
>> The Balanced Oscillator is then unbalanced by a variable DC current
> controlled by the XMIT GAIN
>> control on the front panel, allowing the CO signal to increase from it's
> normal SSB 'null' setting
>> so it may be amplified as the transmitted signal.
>>
>> So the amount of shift must be sufficient to get the CO signal past the
> stop band of the LSB filter,

>> and into the passband. The amount of shift 'may' be changed by changing
> the value of C84 to a
>> smaller capacitance, BUT if you go too far you will lose CW drive as the
> CO is further down the
>> filter slope. The ~900 Hz shift was chosen to be 'well within' the
> passband to allow for various
>> tolerances in filters, CO frequencies, etc.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> Juan wrote:
>>> Hello,
>>> I have bought a second hand Drake TR4 and I have noticed that the CW rx
> shift is more than 1 Khz. The sidetone adjust affects your own monitoring
> but has not effect in the real shift of the trasnmission.
>>> The question is: Do you know if there is some mod or procedure to reduce
> this shift to a normal level, so to speak 500 or 600 Hz?
>>> Many thanks in advance.
>>> Juan
>>> EA5BLP
>>>
>>>

5826. Re: [DrakeRadio] 2-B Questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-09-26 21:12:28 UTC
From: Garey Barrell
Topic: 5826 Message: 5826

Hi Bill -

1. No, the original was a piece of phenolic (brown) tubing, 1/4" od x 1/8" id. The KEY that a lot
of people miss is that the tubing has a lengthwise slit in it that allows it to clamp down. Too
many knobs were destroyed because guys would just keep cranking down on the set screw trying to get
it to NOT slip, with the slit either under the set screw, or exactly opposite it. Donnie, at
<http://2bradioparts.com/page10.html> has an excellent fix, and is probably worth the cost as
opposed to trying to find a piece of 1/4" phenolic rod, drilling a 1/8" hole through the center, and
cutting a small, longitudinal slit !! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

William Houghton wrote:
> Hi Garey,
> Do you mind if I ask you a few questions today? These all concern the Drake 2-B.
> 1. The knob on the passband tuning looks like a knob for 1/4 inch shaft and matches the style of
> the 2-B. The smaller shaft of the passband tuning (1/8 inch?) is covered by a piece of plastic
> tubing. Is this normal?
> 2. Is the zero setting of the s-meter highly critical and difficult to do? I seem to be able to
> either set it too high or too low. I suspect a pot with a worn spot right where I need to set the
> wiper. I'll try wiring in a standard 5K pot later just for testing to see if it fixes the issue.
> BTW, computer xtals worked fine. I had some older outside-of-ham-band xtals in the proper size
> holder. Clsmped the pins in a vise. Used the American Beauty to heat up the holder and off the
> holder cover came.
> Thanks,
> Bill
>
> ---

> *From:* Garey Barrell <k4oah@...>
> *To:* DrakeRadio@yahoogroups.com
> *Sent:* Mon, September 26, 2011 1:10:53 PM
> *Subject:* Re: [DrakeRadio] Drake TR4 cw shift
>
> Juan -
>
> The CW shift is normally about 800-900 Hz. The amount of shift is determined by C84, which is
> switched in series with the 9.0 MHz Carrier Oscillator crystal, shifting it up to ~9.001 MHz, by
> closing relay K2. The CO must be shifted by about that amount to move it from it's SSB position
> (centered between the Upper and Lower crystal filters) to within the passband of the LSB filter.
> The Balanced Oscillator is then unbalanced by a variable DC current controlled by the XMIT GAIN
> control on the front panel, allowing the CO signal to increase from it's normal SSB 'null' setting
> so it may be amplified as the transmitted signal.
>
> So the amount of shift must be sufficient to get the CO signal past the stop band of the LSB filter,
> and into the passband. The amount of shift 'may' be changed by changing the value of C84 to a
> smaller capacitance, BUT if you go too far you will lose CW drive as the CO is further down the
> filter slope. The ~900 Hz shift was chosen to be 'well within' the passband to allow for various
> tolerances in filters, CO frequencies, etc.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com <http://www.k4oah.com/>>
>
> Juan wrote:
> > Hello,
> > I have bought a second hand Drake TR4 and I have noticed that the CW rx shift is more than 1
> Khz. The sidetone adjust affects your own monitoring but has not effect in the real shift of the
> trasnmission.
> > The question is: Do you know if there is some mod or procedure to reduce this shift to a normal
> level, so to speak 500 or 600 Hz?
> > Many thanks in advance.
> > Juan

> > EA5BLP
> >
> >
>
>

5827. Famous TR-7?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-01 20:55:22 UTC
From: Brenton Crowhurst
Topic: 606 Message: 5827

Greetings to the group.

Here's a curiosity. I found this website while looking around the web the other day:

http://users.skynet.be/on1cau/k_hussein.htm

The second picture down features the tell tale look of a Drake 7 series station. Definitive proof this was a rig fit for a king?

73

Brenton Crowhurst,
VE6IE

5828. Re: [DrakeRadio] Famous TR-7?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-01 22:40:14 UTC
From: Don Cunningham
Topic: 606 Message: 5828

Yes, and he could have afforded ANY radio he wanted. Tells a lot about the TR7. I heard him on the air, but never worked him. ALWAYS a pileup, of course.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5829. Re: [DrakeRadio] Famous TR-7?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-02 23:38:34 UTC
From: VE3AX/7
Topic: 606 Message: 5829

I guess the King was pretty impressed with Drake gear, and that must have spilled over to his military. They ordered a number of Drake R-4245 receivers (rack-mounted R-7's with built in VRTO like the RV-75) with a very unique olive green front panel colour.

See Sindre/J.M.Cherry's Drake Museum for info. Now if only I could find one!

Peter
VE3AX/7

From: Don Cunningham
Sent: Saturday, October 01, 2011 3:40 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Famous TR-7?

Yes, and he could have afforded ANY radio he wanted. Tells a lot about the TR7. I heard him on the air, but never worked him. ALWAYS a pileup, of course.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5830. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-03 00:47:57 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5830

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5831. FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-03 19:18:23 UTC
From: Garey Barrell
Topic: 993 Message: 5831

Here is the information that Drake left out of their manuals!

Unique supplemental service information CDs available for the Drake TR-4, TR-4C/Cw/CwRIT, A, B and C
Lines, 2-C / 2-NT and the 2-B receiver.

High resolution color photos of the under chassis and individual PC boards of each unit, with all
parts identified and keyed to a parts list make it easy to locate any component. No more trying to
trace wires through bundles, etc. This information is not available elsewhere and really makes a
difference in servicing these units.

These CDs are NOT just scans of the original manuals that were included with the equipment when new.
High resolution scans of the original manuals ARE on the CDs, along with scans of manuals for
associated equipment such as the C-4, FS-4, MN2000, L-4B, W-4, etc.

Samples of these pages (at reduced resolution) and purchase information are at <www.k4oah.com>.

--
73, Garey - K4OAH
Glen Allen, VA

_____
Drakelist mailing list
Drakelist@...
http://mailman.zerobeat.net/mailman/listinfo/drakelist

5832. Re: [DrakeRadio] FS: Unique Drake Service Supplement CDs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-03 19:22:19 UTC
From: Joe
Topic: 993 Message: 5832

A **definite** 'add' to your Drake station. Never regretted my addition of
the CD to my manual collection.

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: [DrakeRadio] FS: Unique Drake Service Supplement CDs

> Here is the information that Drake left out of their manuals!
>
> Unique supplemental service information CDs available for the Drake TR-4,
> TR-4C/Cw/CwRIT, A, B and C Lines, 2-C / 2-NT and the 2-B receiver.

> Samples of these pages (at reduced resolution) and purchase information
> are at <www.k4oah.com>.

5833. TR7 vfo drift PA compartment heat??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-05 16:23:39 UTC
From: cd40105
Topic: 5833 Message: 5833

Hi, as theres a mod for the TR7 vfo with the cumbria designed X-lock, One would be seller of a TR7 tells me even with the heat from the P.A transistors, it should not be a problem?? I'm bit dissapointed with the vfo drifting off frequency..maybe the set needs to be switched on for a longer period of time..but I question this though I may only run at at a lower power O/P. I need to get to grips with this problem before
getting involved with PA0KSB type frequency stabiliser..73 ian g3yrq.

5834. Drake RV4C, some simple questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-05 16:30:36 UTC
From: billykatzz
Topic: 5834 Message: 5834

I finally got my hands on a RV4C unit and it looks to be in pretty nice condition. I haven't tried hooking it up to my TR4Cw yet, but have a few questions, just cosmetic and mechanical:

The two horizontal "grills" look a little pushed in. I'm supposing this is a pretty common condition of many of these units, as the grills are unsupported and, after all, are aluminum sheet metal. Any cautionary information about trying to straighten them out?

The PTO dial turns a little more easily than my TR4Cw unit. I understand there's a way to add some resistance to the turning mechanism. Can anyone walk me through the procedure?

Bill in Pasadena, NK6Q

5835. Re: [DrakeRadio] TR7 vfo drift PA compartment heat??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-05 16:43:43 UTC
From: Garey Barrell
Topic: 5833 Message: 5835

Ian -

Are you using the FA-7 (or other) fan on the TR-7?? It doesn't 'need' the fan for cooling the PA
under normal operating conditions, but the internal temperature of the unit is much more stable with
the fan, blowing OUT.

The TR-7 uses an analog PTO, essentially the same circuit use in the 4-Line system. So it will NOT
be as stable as modern, synthesized radios, but will also not have the phase noise present in most
of those. I believe the spec is 'less than 100 Hz after warm-up', which is the same as the 4-Line.
I read this to mean that it will stay within +/- 50 Hz over time. I recently had a 4-Line PTO on
the bench, sitting out in the open, and it easily stayed within that limit, UNTIL the A/C came on
and blew cool air directly on it, when it moved by about 150 Hz.

If this is insufficient for your needs, then the Cumbria X-Lock is an excellent option. It is not
particularly difficult to install and works quite well. Another option, considerably more expensive, is the RV-75 external VFO. It is synthesized, and is just as stable as today's radios,
at the expense of some phase noise.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

cd40105 wrote:
> Hi, as theres a mod for the TR7 vfo with the cumbria designed X-lock, One would be seller of a TR7 tells me even with the heat from the P.A transistors, it should not be a problem?? I'm bit dissapointed with the vfo drifting off frequency..maybe the set needs to be switched on for a longer period of time..but I question this though I may only run at at a lower power O/P. I need to get to grips with this problem before
> getting involved with PA0KSB type frequency stabiliser..73 ian g3yrq.
>

5836. Re: [DrakeRadio] Drake RV4C, some simple questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-05 16:50:35 UTC
From: Garey Barrell
Topic: 5834 Message: 5836

Bill -

I don't know about the grille problem. Shouldn't be difficult, unless the fastening around the
edges has NOT let go. If the edges are solid, then the grille material has stretched, and I don't
know how you fix that.

The only 'safe' way I know to tighten up the tuning is to use a heavier grease on the bearing and/or
lead screw. Some suggest just over tightening the rear bearing, but this overloads the bearings.
The adjustment should be made only as tight as necessary to eliminate any side play in the front
bearing. This is the Allen screw adjustment accessible from the rear of the PTO gearbox when the
PTO shield cover is removed. Some covers have an access hole in the rear wall, but trying to do
this adjustment by sticking the wrench in there is a good recipe for disaster. Much safer to remove
the cover and SEE what you are doing.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

billykatzz wrote:
> I finally got my hands on a RV4C unit and it looks to be in pretty nice condition. I haven't tried hooking it up to my TR4Cw yet, but have a few questions, just cosmetic and mechanical:
>
> The two horizontal "grills" look a little pushed in. I'm supposing this is a pretty common condition of many of these units, as the grills are unsupported and, after all, are aluminum sheet metal. Any cautionary information about trying to straighten them out?
>
> The PTO dial turns a little more easily than my TR4Cw unit. I understand there's a way to add some resistance to the turning mechanism. Can anyone walk me through the procedure?
>
> Bill in Pasadena, NK6Q
>

5837. Re: [DrakeRadio] Drake RV4C, some simple questions

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-05 22:21:25 UTC
From: Richard Knoppow
Topic: 5834 Message: 5837

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, October 05, 2011 9:50 AM
Subject: Re: [DrakeRadio] Drake RV4C, some simple questions

> Bill -
>
> I don't know about the grille problem. Shouldn't be
> difficult, unless the fastening around the
> edges has NOT let go. If the edges are solid, then the
> grille material has stretched, and I don't
> know how you fix that.
>
> The only 'safe' way I know to tighten up the tuning is to
> use a heavier grease on the bearing and/or
> lead screw. Some suggest just over tightening the rear
> bearing, but this overloads the bearings.
> The adjustment should be made only as tight as necessary
> to eliminate any side play in the front
> bearing. This is the Allen screw adjustment accessible
> from the rear of the PTO gearbox when the
> PTO shield cover is removed. Some covers have an access
> hole in the rear wall, but trying to do
> this adjustment by sticking the wrench in there is a good
> recipe for disaster. Much safer to remove
> the cover and SEE what you are doing.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

Nye lubricants sells damping grease in several grades.
Its possible that some of the right grease in the right
place would give the dial the feel you want. Damping grease
is used, for instance, on the focusing threads of lenses.
Nye sells their stuff retail through another company
but I don't have the link on this machine.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

5838. TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-06 18:16:47 UTC
From: wd5hxb
Topic: 5838 Message: 5838

My TR 4 will dead key 100 watts but the old General Electric mic, or some other cause will not produce over 20 watts on SSB...all on meters not antennas. Want to wire in an old Turner Plus 3, any problems with that? Also, any source for another mic plug for the TR?...Or maybe I'm to old to mess with this thing. Could be sold but I think I'd want too much for it, matching speaker with power supply built in...I think the market has hit a low for these things....help with the wiring (I think I have that down) and advice on the Turner plus a source for another plug would greatly be appreciated...thanks...de HXB.

5839. Re: [DrakeRadio] TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-06 18:25:20 UTC
From: William Houghton
Topic: 5838 Message: 5839

I bought mine right angle 0.206 plugs from Mouser (about $12) but you can try this one on ebay:

http://www.ebay.com/itm/Collins-PJ-068-Right-Angle-Microphone-Plug-W-Screw-Term-/390352946216?_trksid=p4340.m263&_trkparms=algo%3DSIC.NPJS%252BSI%26its%3DI%26itu%3DUA%252BUCI%252BRTU%26otn%3D5%26pmod%3D150656413939%252B150656413939%26po%3D%26ps%3D63%26clkid%3D3289765874528875101

Bill

From: wd5hxb <wachitapilot@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, October 6, 2011 11:16:47 AM
Subject: [DrakeRadio] TR 4 Audio Output

My TR 4 will dead key 100 watts but the old General Electric mic, or some other cause will not produce over 20 watts on SSB...all on meters not antennas. Want to wire in an old Turner Plus 3, any problems with that? Also, any source for another mic plug for the TR?...Or maybe I'm to old to mess with this thing. Could be sold but I think I'd want too much for it, matching speaker with power supply built in...I think the market has hit a low for these things....help with the wiring (I think I have that down) and advice on the Turner plus a source for another plug would greatly be appreciated...thanks...de HXB.

[Non-text portions of this message have been removed]

5840. Re: [DrakeRadio] TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-06 18:40:08 UTC
From: Garey Barrell
Topic: 5838 Message: 5840

If you are using the PLATE meter on the TR-4, -OR- an average reading (most) wattmeter, 20-30 Watts
is about right. A scope or peak reading Wattmeter should read about 100W. If you just whistle a
steady tone into your mic, you should be about 100W on YOUR meters.

KE9PQ is a good source for the mic plugs, either straight or right angle. They're called 3/16" or
0.206" dia phone plugs.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wd5hxb wrote:
> My TR 4 will dead key 100 watts but the old General Electric mic, or some other cause will not produce over 20 watts on SSB...all on meters not antennas. Want to wire in an old Turner Plus 3, any problems with that? Also, any source for another mic plug for the TR?...Or maybe I'm to old to mess with this thing. Could be sold but I think I'd want too much for it, matching speaker with power supply built in...I think the market has hit a low for these things....help with the wiring (I think I have that down) and advice on the Turner plus a source for another plug would greatly be appreciated...thanks...de HXB.
>

5841. Re: [DrakeRadio] TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-06 19:26:36 UTC
From: DD Smith
Topic: 5838 Message: 5841

Thanks Garey for prompt reply. I guess all is well with the radio...I just did a lot of changing in station and going from FT 840 and an AL 80-B,,,,I expected too much on lower bands...My meters use average or peak...so, hey at least I know I'm tuning the old girl up right...tnx agn...it performs as you said....73's de HXB.

--- On Thu, 10/6/11, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] TR 4 Audio Output
To: DrakeRadio@yahoogroups.com
Cc: "wd5hxb" <wachitapilot@...>
Date: Thursday, October 6, 2011, 1:40 PM

If you are using the PLATE meter on the TR-4, -OR- an average reading (most) wattmeter, 20-30 Watts is about right. A scope or peak reading Wattmeter should read about 100W. If you just whistle a steady tone into your mic, you should be about 100W on YOUR meters.

KE9PQ is a good source for the mic plugs, either straight or right angle. They're called 3/16" or 0.206" dia phone plugs.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wd5hxb wrote:
> My TR 4 will dead key 100 watts but the old General Electric mic, or some other cause will not produce over 20 watts on SSB...all on meters not antennas. Want to wire in an old Turner Plus 3, any problems with that? Also, any source for another mic plug for the TR?...Or maybe I'm to old to mess with this thing. Could be sold but I think I'd want too much for it, matching speaker with power supply built in...I think the market has hit a low for these things....help with the wiring (I think I have that down) and advice on the Turner plus a source for another plug would greatly be appreciated...thanks...de HXB.
>

[Non-text portions of this message have been removed]

5842. Re: [DrakeRadio] TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 04:44:00 UTC
From: Jim Shorney
Topic: 5838 Message: 5842

On Thu, 06 Oct 2011 18:16:47 -0000, wd5hxb wrote:

>Want to wire in an old Turner Plus 3, any problems with that?

The +3 is a good sounding mic - basically a Drake 7075 is a +3 without the preamp. Strictly speaking, the preamp is not at all necessary for your radio, but it is a compressor amp that actually does a decent job. I hooked one up to my TR-7 on a lark (I generally despise preamped mics) and often get unsolicited compliments on my audio. In checks with locals who know my voice, the +3 was preferred over a Drake 7077, Shure 444, non-amplified D-104, Turner 254HC, and ElectroVoice 729 - although it was almost neck-and-neck with the 254HC and the 729. YMMV, depending on the characteristics of your voice.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5843. Re: [DrakeRadio] TR 4 Audio Output

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 05:17:15 UTC
From: Dennis Weal
Topic: 5838 Message: 5843

Just give it a go. The ops will let you know how it sounds. Best way I know how well it works.

Denny
w4eal

----- Original Message -----
From: Jim Shorney
Sent: 10/07/11 12:44 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] TR 4 Audio Output

On Thu, 06 Oct 2011 18:16:47 -0000, wd5hxb wrote:

>Want to wire in an old Turner Plus 3, any problems with that?

The +3 is a good sounding mic - basically a Drake 7075 is a +3 without the preamp. Strictly speaking, the preamp is not at all necessary for your radio, but it is a compressor amp that actually does a decent job. I hooked one up to my TR-7 on a lark (I generally despise preamped mics) and often get unsolicited compliments on my audio. In checks with locals who know my voice, the +3 was preferred over a Drake 7077, Shure 444, non-amplified D-104, Turner 254HC, and ElectroVoice 729 - although it was almost neck-and-neck with the 254HC and the 729. YMMV, depending on the characteristics of your voice.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5844. Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 17:55:40 UTC
From: dr7zyq
Topic: 5844 Message: 5844

I have a TR-7 which has operated well until now. I turned it on yesterday to find that the display is out -- but that isn't what this is about.

I opened the radio to deal with the display problem and there is a single wire with lavendar colored insulation coming from a push on connector next to the speaker, which lavendar colored wire is no longer attached to the circuit board. I know it used to be, but cannot locate the place where it must have broken loose.

I need some guidance on where to reattach that wire.

I don't have the service manual and the op manual doesn't even have a photo of the circuit board to give guidance.

Thanks,

David, WA7ZYQ

5845. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 21:40:21 UTC
From: Jim Shorney
Topic: 5844 Message: 5845

Photo sent....

73

-Jim

On Fri, 07 Oct 2011 17:55:40 -0000, dr7zyq wrote:

>I have a TR-7 which has operated well until now. I turned it on yesterday to find that the display is out -- but that isn't what this is about.
>
>I opened the radio to deal with the display problem and there is a single wire with lavendar colored insulation coming from a push on connector next to the speaker, which lavendar colored wire is no longer attached to the circuit board. I know it used to be, but cannot locate the place where it must have broken loose.
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>Thanks,
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>David, WA7ZYQ
>
>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5846. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 21:50:25 UTC
From: Garey Barrell
Topic: 5844 Message: 5846

Photo??

73, Garey - K4OAH
Glen Allen, VA

Jim Shorney wrote:
> Photo sent....
>
> 73
>
> -Jim
>
>
> On Fri, 07 Oct 2011 17:55:40 -0000, dr7zyq wrote:
>
>> I have a TR-7 which has operated well until now. I turned it on yesterday to find that the display is out -- but that isn't what this is about.
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>> I need some guidance on where to reattach that wire.
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>> I don't have the service manual and the op manual doesn't even have a photo of the circuit board to give guidance.
>>
>> Thanks,
>>
>> David, WA7ZYQ
>>
>>

5847. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 22:21:45 UTC
From: David Rogers
Topic: 5844 Message: 5847

Just what I needed. I had figured that it must go there -- that was the vicinity I remembered it being in -- but it didn't leave any residue to verify that. Now I can reattach and get back to dealing with the first problem.

Many thanks,

David, WA7ZYQ

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: "dr7zyq" <wa7zyq@...>; <DrakeRadio@yahoogroups.com>
Sent: Friday, October 07, 2011 2:40 PM
Subject: Re: [DrakeRadio] Where to connect loose wire

>
> Photo sent....
>
> 73
>
> -Jim
>
>
> On Fri, 07 Oct 2011 17:55:40 -0000, dr7zyq wrote:
>
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>>to find that the display is out -- but that isn't what this is about.
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>>must have broken loose.
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>>photo of the circuit board to give guidance.
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>>Thanks,
>>
>>David, WA7ZYQ
>>
>>
>>
>

>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

5848. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 00:08:31 UTC
From: Jim Shorney
Topic: 5844 Message: 5848

Sent directly, cuz I knew it wouldn't go through the list.

On Fri, 07 Oct 2011 17:50:25 -0400, Garey Barrell wrote:

>Photo??
>
>73, Garey - K4OAH
>Glen Allen, VA
>
>
>
>
>Jim Shorney wrote:
>> Photo sent....
>>
>> 73
>>
>> -Jim
>>
>>
>> On Fri, 07 Oct 2011 17:55:40 -0000, dr7zyq wrote:
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>>> Thanks,
>>>
>>> David, WA7ZYQ
>>>
>>>
>

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,

IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5849. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 02:04:49 UTC
From: Garey Barrell
Topic: 5844 Message: 5849

So was it the BAND change wire? PIn 1 of U9002?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
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>
>
>
> On Fri, 07 Oct 2011 17:50:25 -0400, Garey Barrell wrote:
>
>> Photo??
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>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>>
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>>> -Jim
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>>>> Thanks,
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>>>> David, WA7ZYQ
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>>>>
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> Ham Radio NU0C
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> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> Yahoo! Groups Links
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5850. PS-7 Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 02:16:24 UTC
From: Ed WA4NJY
Topic: 5850 Message: 5850

My PS-7 is doing fine but I wonder if some components should be changed out to avoid problems later.

Do I need to worry about regulator circuits allowing voltage to rise, etc?

Thanks,
Ed WA4NJY

5851. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 02:19:29 UTC
From: Jim Shorney
Topic: 5844 Message: 5851

On Fri, 07 Oct 2011 22:04:49 -0400, Garey Barrell wrote:

>So was it the BAND change wire? PIn 1 of U9002?

It would appear so, since the pic I sent was a crop of that area of the board
from a service manual pic.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://www.nebraskaghosts.org

5852. Re: [DrakeRadio] PS-7 Supply

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 02:33:10 UTC
From: Jim Shorney
Topic: 5850 Message: 5852

On Sat, 08 Oct 2011 02:16:24 -0000, Ed WA4NJY wrote:

>My PS-7 is doing fine but I wonder if some components should be changed out to avoid
>problems later.

Make sure the regulator IC is snug in it's socket, and the pass transistor screws haven't loosened up. Inspect and re-seat other connections as necessary. Install the optional fan, if it doesn't have one. The main filter caps may eventually fail, but no sense replaceing them if they are still good. The PS-7 is pretty much bullet proof, no need to tinker with it. The only known mod is a bypass cap on the auxiliary 12v output. Some PS-7 notes here:

http://www.alg.myzen.co.uk/radio/tr7/mods.htm

>Do I need to worry about regulator circuits allowing voltage to rise, etc?

There is a crowbar circuit built in to the design to protect the radio from overvoltage.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5853. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-07 18:21:43 UTC
From: Garey Barrell
Topic: 5844 Message: 5853

David -

Hard to say exactly what it is, BUT, there should be a wire connected to Pin 1 of U9002. If no wire
there, that's probably it!

Looking from the front panel down on the DR-7 board, left corner nearest to the front panel, the
first IC along the left edge of the board is U9001. The one just 'above' it is U9002. Pin 1 is the
first pin on the top right corner, where the 'dimple' in the IC package is. You'll probably find a
strand or two of wire still there if no wire.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dr7zyq wrote:
> I have a TR-7 which has operated well until now. I turned it on yesterday to find that the display is out -- but that isn't what this is about.
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> I need some guidance on where to reattach that wire.
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> I don't have the service manual and the op manual doesn't even have a photo of the circuit board to give guidance.
>
> Thanks,
>
> David, WA7ZYQ
>
>

5854. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 07:13:29 UTC
From: David Rogers
Topic: 5844 Message: 5854

Thanks, Garey. That confirms what it looked like from the photo that Jim sent, and I appreciate that. I've seen that wire so many times before, but couldn't pin down exactly where it went.

I have a pdf of the service manual but the photos are illegible. Maybe I should spring for the real deal one of these days.

Oh -- and a very clean break. No clues at all.

David, WA7ZYQ

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Friday, October 07, 2011 11:21 AM
Subject: Re: [DrakeRadio] Where to connect loose wire

David -

Hard to say exactly what it is, BUT, there should be a wire connected to Pin 1 of U9002. If no wire
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dr7zyq wrote:
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>
> Thanks,
>
> David, WA7ZYQ
>
>

[Non-text portions of this message have been removed]

5855. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 14:30:38 UTC
From: Garey Barrell
Topic: 5844 Message: 5855

David -

Glad that was it.... A service manual can be very handy! :-)

You might check with WB3CEZ. He was selling a very clean scan of the TR-7 Service manual on CD for
$10. I have one, and I use it as much as the paper version I have. He usually sells on eBay, but I
don't see a listing at the moment. An email might do it.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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David Rogers wrote:
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>
> Oh -- and a very clean break. No clues at all.
>
> David, WA7ZYQ
>
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Friday, October 07, 2011 11:21 AM
> Subject: Re: [DrakeRadio] Where to connect loose wire
>
>
>
> David -
>
> Hard to say exactly what it is, BUT, there should be a wire connected to Pin 1 of U9002. If no wire
> there, that's probably it!
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> Looking from the front panel down on the DR-7 board, left corner nearest to the front panel, the

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> 73, Garey - K4OAH
> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> dr7zyq wrote:
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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5856. Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:10:47 UTC
From: Lee Hiers
Topic: 5856 Message: 5856

Hi folks,

I picked up an R-4 (no-suffix) about a year ago and listened on it for a while with just a random wire inside the house. Really like the radio. Back in the spring, it developed a hum, and sounded like the radio was zero-beat with a carrier wherever I tuned. I figured filter caps were bad, and probably something in the AGC circuit. I subsequently got married, moved, etc. and figured the repair would have to wait until things settled down a bit.

I'm finally getting to where I can look at the rig. I opened it up, and it looks like it's never been touched inside. So, I decided to get a Hayseed can replacement for the filter caps instead of going with discrete caps. Mine has a three section 100mfd/200v can - not the 4 section Hayseed sells as a replacement. No problem, just use the three 100uF sections, ignoring the extra 22uF section.

Anyway, to the point... There are about a half-dozen or so paper caps in the rig - should I routinely replace them as well? If so, any particular recommendations?

I'm also planning on replacing a few tubes - in the RF am and AGC stages for starters. Any pitfalls to watch out for there?

Thanks!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

5857. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:20:52 UTC
From: Jim Shorney
Topic: 5844 Message: 5857

On Sat, 8 Oct 2011 00:13:29 -0700, David Rogers wrote:

>I have a pdf of the service manual but the photos are illegible. Maybe I should spring for the real deal one of these days.

Free PDFs off the internet usually aren't very good. People were either too lazy to take the care to make a good scan, they were done on a cheapo scanner, or they were created the day when it was critical to keep the file size down. The photo crop that I sent was from the PDF on the HAManuals CD, which was one of the first CDs out there, and it's very good. You get what you pay for. I also purchased a very good hardcopy repro from an eBay seller who later offered it on CD as well, it may be the same fellow that Garey mentioned.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5858. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:29:27 UTC
From: Garey Barrell
Topic: 5856 Message: 5858

Lee -

C90A wasn't used until the late R-4B. It was probably used in the first prototype of the R-4, but
the first R-4 schematic (0001) showed only C90B, C and D. I guess Drake just got a good buy on
four section caps.!

Drake used good quality epoxy 'film' caps, and I don't think I have found a bad one yet. Of course
the tubular electrolytics should be replaced in the BIAS and AF OUTPUT Cathode bypass.

The most likely problem in the AVC circuit is gassy 12BA6 IF tubes. They cause the S-Meter ZERO to
drift among other things.

When you price out a 12BZ6 RF AMP tube you may want to make the mod made by many when the R-4 was
'new', i.e., move a filament wire and use a 6BZ6 instead. The 12BZ6 was expensive and hard to find
even back then.

Beyond that, we're here!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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Lee Hiers wrote:
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> a while with just a random wire inside the house. Really like the
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> radio was zero-beat with a carrier wherever I tuned. I figured filter
> caps were bad, and probably something in the AGC circuit. I
> subsequently got married, moved, etc. and figured the repair would
> have to wait until things settled down a bit.
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> and it looks like it's never been touched inside. So, I decided to
> get a Hayseed can replacement for the filter caps instead of going
> with discrete caps. Mine has a three section 100mfd/200v can - not
> the 4 section Hayseed sells as a replacement. No problem, just use

> the three 100uF sections, ignoring the extra 22uF section.
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> Anyway, to the point... There are about a half-dozen or so paper caps
> in the rig - should I routinely replace them as well? If so, any
> particular recommendations?
>
> I'm also planning on replacing a few tubes - in the RF am and AGC
> stages for starters. Any pitfalls to watch out for there?
>
> Thanks!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>

5859. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:35:19 UTC
From: Don Cunningham
Topic: 5856 Message: 5859

Lee,
You will get several different answers on these questions, but I'll give one response, hi. I wouldn't hesitate to replace the paper caps with some good Orange Drops or equivalent cheaper ones. The new ones will be smaller and higher voltage which won't hurt.

I would NEVER change tubes out "just to be changing" them, instead use the new ones to exchange with the old ones if you feel one is not working for some reason. The alignment of the rig was likely done with those tubes, and different ones will act differently in the same circuit. I would spend my time loosening and tightening the scews that give the grounds in the unit (all of them, hi) and cleaning contacts with DeOxit and think the time to be better spent. You can replace defective tubes as needed later.

As I said, each user has a different slant, but that's mine and I'm stickin' to it, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5860. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:38:47 UTC
From: Garey Barrell
Topic: 5844 Message: 5860

The hard copy is from Mark at <http://www.ke9pq.com>

It's $20 plus shipping, and a VERY good scan with full size (fold-out) drawings.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Sat, 8 Oct 2011 00:13:29 -0700, David Rogers wrote:
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>> I have a pdf of the service manual but the photos are illegible. Maybe I should spring for the real deal one of these days.
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> also purchased a very good hardcopy repro from an eBay seller who later offered
> it on CD as well, it may be the same fellow that Garey mentioned.
>

5861. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:51:44 UTC
From: Jim Shorney
Topic: 5844 Message: 5861

On Sat, 08 Oct 2011 11:38:47 -0400, Garey Barrell wrote:

>The hard copy is from Mark at <http://www.ke9pq.com>
>
>It's $20 plus shipping, and a VERY good scan with full size (fold-out) drawings.

That may be it. Primo stuff, no taped-together foldouts or reduced size pages.
This is the real deal, almost as good as a Drake original. In fact, I do have a
Drake original, but I use the repro for all my "heavy lifting".

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5862. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:56:44 UTC
From: Paul Christensen
Topic: 5856 Message: 5862

Garey,

Is there a way to better distinguish between the black-plastic paper caps and black-plastic film types? I'm sure I unnecessarily changed out a few caps in my R-4B, and perhaps the R-4C thinking they used paper dielectrics.

Paul, W9AC

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 11:29 AM
Subject: Re: [DrakeRadio] Re-capping an R-4

Lee -

C90A wasn't used until the late R-4B. It was probably used in the first prototype of the R-4, but
the first R-4 schematic (0001) showed only C90B, C and D. I guess Drake just got a good buy on
four section caps.!

Drake used good quality epoxy 'film' caps, and I don't think I have found a bad one yet. Of course
the tubular electrolytics should be replaced in the BIAS and AF OUTPUT Cathode bypass.

The most likely problem in the AVC circuit is gassy 12BA6 IF tubes. They cause the S-Meter ZERO to
drift among other things.

When you price out a 12BZ6 RF AMP tube you may want to make the mod made by many when the R-4 was
'new', i.e., move a filament wire and use a 6BZ6 instead. The 12BZ6 was expensive and hard to find
even back then.

Beyond that, we're here!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Lee Hiers wrote:
> Hi folks,
>

> I picked up an R-4 (no-suffix) about a year ago and listened on it for
> a while with just a random wire inside the house. Really like the
> radio. Back in the spring, it developed a hum, and sounded like the
> radio was zero-beat with a carrier wherever I tuned. I figured filter
> caps were bad, and probably something in the AGC circuit. I
> subsequently got married, moved, etc. and figured the repair would
> have to wait until things settled down a bit.
>
> I'm finally getting to where I can look at the rig. I opened it up,
> and it looks like it's never been touched inside. So, I decided to
> get a Hayseed can replacement for the filter caps instead of going
> with discrete caps. Mine has a three section 100mfd/200v can - not
> the 4 section Hayseed sells as a replacement. No problem, just use
> the three 100uF sections, ignoring the extra 22uF section.
>
> Anyway, to the point... There are about a half-dozen or so paper caps
> in the rig - should I routinely replace them as well? If so, any
> particular recommendations?
>
> I'm also planning on replacing a few tubes - in the RF am and AGC
> stages for starters. Any pitfalls to watch out for there?
>
> Thanks!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>

[Non-text portions of this message have been removed]

5863. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 17:03:53 UTC
From: Garey Barrell
Topic: 5856 Message: 5863

Paul -

The (mostly black with white fill, yellow or white) film caps have the solid epoxy fill at the
ends. They look like they were just turned on end and filled with liquid epoxy that flows around
the wire lead. They may well be paper dielectric, but are so well sealed that it doesn't make any
difference. The so-called 'black beauties' were made with two half-shells that were glued together,
leaving a poor seal at the leads. So oil can escape and moisture can get in, causing failures.

The only Drake caps I have found bad were ones that had a soldering iron laid up against them,
melting the tube, or where the leads had been yanked hard enough to crack the end fill. Any that
'look' good are 'almost' always good.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Christensen wrote:
> Garey,
>
> Is there a way to better distinguish between the black-plastic paper caps and
black-plastic film types? I'm sure I unnecessarily changed out a few caps in my R-4B, and
perhaps the R-4C thinking they used paper dielectrics.
>
> Paul, W9AC
>
> ----- Original Message -----
> From: Garey Barrell
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 08, 2011 11:29 AM
> Subject: Re: [DrakeRadio] Re-capping an R-4
>
>
>
> Lee -
>
> C90A wasn't used until the late R-4B. It was probably used in the first prototype of the

R-4, but
> the first R-4 schematic (0001) showed only C90B, C and D. I guess Drake just got a good buy on
> four section caps.!
>
> Drake used good quality epoxy 'film' caps, and I don't think I have found a bad one yet. Of course
> the tubular electrolytics should be replaced in the BIAS and AF OUTPUT Cathode bypass.
>
> The most likely problem in the AVC circuit is gassy 12BA6 IF tubes. They cause the S-Meter ZERO to
> drift among other things.
>
> When you price out a 12BZ6 RF AMP tube you may want to make the mod made by many when the R-4 was
> 'new', i.e., move a filament wire and use a 6BZ6 instead. The 12BZ6 was expensive and hard to find
> even back then.
>
> Beyond that, we're here!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Lee Hiers wrote:
> > Hi folks,
> >
> > I picked up an R-4 (no-suffix) about a year ago and listened on it for
> > a while with just a random wire inside the house. Really like the
> > radio. Back in the spring, it developed a hum, and sounded like the
> > radio was zero-beat with a carrier wherever I tuned. I figured filter
> > caps were bad, and probably something in the AGC circuit. I
> > subsequently got married, moved, etc. and figured the repair would
> > have to wait until things settled down a bit.
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> > I'm finally getting to where I can look at the rig. I opened it up,
> > and it looks like it's never been touched inside. So, I decided to
> > get a Hayseed can replacement for the filter caps instead of going
> > with discrete caps. Mine has a three section 100mfd/200v can - not
> > the 4 section Hayseed sells as a replacement. No problem, just use
> > the three 100uF sections, ignoring the extra 22uF section.
> >
> > Anyway, to the point... There are about a half-dozen or so paper caps
> > in the rig - should I routinely replace them as well? If so, any
> > particular recommendations?
> >
> > I'm also planning on replacing a few tubes - in the RF am and AGC

> > stages for starters. Any pitfalls to watch out for there?
> >
> > Thanks!
> >
> > 73 de Lee
> > --
> > Lee Hiers, AA4GA
> > www.aa4ga.com
> >
>

5864. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 17:11:58 UTC
From: Garey Barrell
Topic: 5856 Message: 5864

Don -

Good points. No it certainly won't hurt to replace the caps, but those awful orange radial lead
caps just don't 'look' right! :-)

Definitely agree on the tubes. 'Replacing with all new tubes' is a waste of money AND tubes. The
only tube I find that need replacing are the 6/12BA6's in the IF, just had another one (buried under
the shield, NB and NB bracket of course!) yesterday in an R-4C. S-Meter ZERO was against the stop.
Occasionally I'll run into a bad 6EH5 where the Cathode bypass cap has shorted, or once in a great
while the RF AMP will be a little weak at 10M. Of course the 3rd Mixer in the R-4C is sometimes a
problem, and I have to find a 'good' (quiet) replacement, but fortunately I don't do too many "C's"!!

DeoxIT and tightened screws 'fix' a multitude of problems. I just had to get a new bottle of
D100L. Ouch!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Lee,
> You will get several different answers on these questions, but I'll give one response, hi. I wouldn't hesitate to replace the paper caps with some good Orange Drops or equivalent cheaper ones. The new ones will be smaller and higher voltage which won't hurt.
>
> I would NEVER change tubes out "just to be changing" them, instead use the new ones to exchange with the old ones if you feel one is not working for some reason. The alignment of the rig was likely done with those tubes, and different ones will act differently in the same circuit. I would spend my time loosening and tightening the scews that give the grounds in the unit (all of them, hi) and cleaning contacts with DeOxit and think the time to be better spent. You can replace defective tubes as needed later.
>
> As I said, each user has a different slant, but that's mine and I'm stickin' to it, hi.
> 73,
> Don, WB5HAK

>

5865. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:01:38 UTC
From: Don Cunningham
Topic: 5856 Message: 5865

Garey,
Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5866. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:05:00 UTC
From: Garey Barrell
Topic: 5856 Message: 5866

Don -

Yeah, it's painful all right..... seems to be 'price controlled' at $25. I have Amazon 'Prime',
so no shipping charges and got it in two days. There may be someone with it on sale, but you don't
often find D100L on sale and my time is worth 'something'! :-) The good news is that it lasts
for years! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
> 73,
> Don, WB5HAK
>

5867. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:16:34 UTC
From: Paul Christensen
Topic: 5856 Message: 5867

Don,

I recently made a purchase of the 2.4 ml bottle for $15 through Amazon. I combined it with some other solvents and shipping was free.

I've stopped using DeOxit on wafer switches and now pretty much limit its use to pots/faders. I have not had any trouble with DeOxit on wafer switches, but I've seen evidence of the dirt/dust it attracts over time.

So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.

Paul, W9AC

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 2:01 PM
Subject: Re: [DrakeRadio] Re-capping an R-4

Garey,
Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5868. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 15:39:19 UTC
From: Don Cunningham
Topic: 5856 Message: 5868

Darn, I always pull the trigger before Garey and get shot down, hi.

Lee,
I save ALL of Garey's posts, and NONE of mine, so you should have your answer in that statement which is important to me.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5869. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:23:35 UTC
From: Paul Christensen
Topic: 5856 Message: 5869

And here's the same 100% solution the D100S spray:

http://tinyurl.com/3jqhxk2

Paul, W9AC

----- Original Message -----
From: Paul Christensen
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 2:16 PM
Subject: Re: [DrakeRadio] Re-capping an R-4

Don,

I recently made a purchase of the 2.4 ml bottle for $15 through Amazon. I combined it with some other solvents and shipping was free.

I've stopped using DeOxit on wafer switches and now pretty much limit its use to pots/faders. I have not had any trouble with DeOxit on wafer switches, but I've seen evidence of the dirt/dust it attracts over time.

So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.

Paul, W9AC

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 2:01 PM
Subject: Re: [DrakeRadio] Re-capping an R-4

Garey,
Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5870. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:29:59 UTC
From: Jim Shorney
Topic: 5856 Message: 5870

On Sat, 8 Oct 2011 14:16:34 -0400, Paul Christensen wrote:

>I've stopped using DeOxit on wafer switches and now pretty much limit its use to pots/faders. I have not had any trouble with DeOxit on wafer switches, but I've seen evidence of the dirt/dust it attracts over time.
>
>So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.

Does this stuff leave any lubricant behind, or do you just get metal-on-metal when it's done?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5871. Re: Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:37:02 UTC
From: w9ac
Topic: 5856 Message: 5871

Jim,

Good question. From the Chemtronics datasheet, it states:

"Leaves protective hydrocarbon lubricant"

Whatever lubricant that remains does not stay wet over time like DeOxit -- unless Caig sells an evaporating form of DeOxit?

Paul, W9AC

--- In DrakeRadio@yahoogroups.com, "Jim Shorney" <jshorney@...> wrote:
>
> On Sat, 8 Oct 2011 14:16:34 -0400, Paul Christensen wrote:
>
> >I've stopped using DeOxit on wafer switches and now pretty much limit its use to pots/faders. I have not had any trouble with DeOxit on wafer switches, but I've seen evidence of the dirt/dust it attracts over time.
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> >So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.
>
> Does this stuff leave any lubricant behind, or do you just get metal-on-metal
> when it's done?
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
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> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org

>

5872. Re: [DrakeRadio] Re: Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:49:07 UTC
From: Jim Shorney
Topic: 5856 Message: 5872

On Sat, 08 Oct 2011 18:37:02 -0000, w9ac wrote:

>Good question. From the Chemtronics datasheet, it states:
>
>"Leaves protective hydrocarbon lubricant"
>
>Whatever lubricant that remains does not stay wet over time like DeOxit -- unless Caig sells an evaporating form of DeOxit?

Good info, Paul. I cringe when I think of how many un-lubricated switches and pots must be out there becuase people have cleaned them very well. :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5873. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 19:44:56 UTC
From: Don Cunningham
Topic: 5856 Message: 5873

Thanks, Paul, but I NEVER use a spray to clean switches or otherwise. Only a squirt in a pot, maybe, but never anywhere else. Just me, your mileage may vary :>)
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5874. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 18:19:16 UTC
From: Paul Christensen
Topic: 5856 Message: 5874

Sorry, that should read D100L 7.4 ml and not 2.4 ml. Here's the link if anyone's interested:

http://www.amazon.com/Booster-Electric-Connection-Enhancer-Lubricant/dp/B0002BBVN2

Paul, W9AC

----- Original Message -----
From: Paul Christensen
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 2:16 PM
Subject: Re: [DrakeRadio] Re-capping an R-4

Don,

I recently made a purchase of the 2.4 ml bottle for $15 through Amazon. I combined it with some other solvents and shipping was free.

I've stopped using DeOxit on wafer switches and now pretty much limit its use to pots/faders. I have not had any trouble with DeOxit on wafer switches, but I've seen evidence of the dirt/dust it attracts over time.

So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.

Paul, W9AC

----- Original Message -----
From: Don Cunningham
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 2:01 PM
Subject: Re: [DrakeRadio] Re-capping an R-4

Garey,
Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5875. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 20:24:41 UTC
From: Garey Barrell
Topic: 5856 Message: 5875

I've not had any problem using the D100L liquid on switches. i don't pour it on, just a drop with
the needle applicator and work it through. I do NOT use or recommend the Q-tip / silver polish,
etc. approach favored by some. Too much chance of hooking a cotton fiber on a fixed contact and
springing it or other physical damage. I don't care if the rotors are black with silver oxide as
long as they have that pretty little stripe of silver down the middle! :-)

The D100L bottle that I got is 25 mL with the needle applicator.

Where do you find the Chemtronic stuff. I generally don't like sprays for anything, too hard to
control where they go. If it leaves no residue that means it also leaves no lubrication, which can
kill a rotary switch. I'm always amazed at the difference DeoxIT makes on something like a
bandswitch with 6 - 8 sections. They go from 'can't hardly turn it' to 'smooth as glass'.

The only spray I use is the FaderLube from DeoxIT. It works great, and you're spraying INSIDE the
pot. It apparently has a heavier lubricant than DeoxIT liquid because the pots become nice and smooth.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Christensen wrote:
> Don,
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> I recently made a purchase of the 2.4 ml bottle for $15 through Amazon. I combined it with some other solvents and shipping was free.
>
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> So now, I'm using several fast-evaporating Chemtronics sprays and the results have been just as good as DeOxit on open switches. For example, I recently purchased a Collins 75S-3C and the band switch was so intermittent, I thought it was broken. I used the Chemtronics spray developed for switch contacts and the bandswitch operates like new.
>

> Paul, W9AC
>
> ----- Original Message -----
> From: Don Cunningham
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 08, 2011 2:01 PM
> Subject: Re: [DrakeRadio] Re-capping an R-4
>
>
>
> Garey,
> Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
> 73,
> Don, WB5HAK
>

5876. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 20:27:48 UTC
From: Garey Barrell
Topic: 5856 Message: 5876

This is what I use.....

http://tinyurl.com/45yqnfd

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Christensen wrote:
> And here's the same 100% solution the D100S spray:
>
> http://tinyurl.com/3jqhxk2
>
> Paul, W9AC
>
>
>
> ----- Original Message -----
> From: Paul Christensen
> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 08, 2011 2:16 PM
> Subject: Re: [DrakeRadio] Re-capping an R-4
>
>
>
> Don,
>
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>
> Paul, W9AC
>
> ----- Original Message -----
> From: Don Cunningham

> To: DrakeRadio@yahoogroups.com
> Sent: Saturday, October 08, 2011 2:01 PM
> Subject: Re: [DrakeRadio] Re-capping an R-4
>
> Garey,
> Where did you find the D100L DeOxit?? I need to get a bottle (even if it hurts) as I am getting stocked up to do a BUNCH of rigs this winter. Hope my ambition holds out. I've been helping Hayseed's sales, HI.
> 73,
> Don, WB5HAK
>

5877. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 20:32:11 UTC
From: Don Cunningham
Topic: 5856 Message: 5877

Garey,
Which strength of the Faderlube do you use, the 100% like on DeOxit?? Through Amazon the company "Micro-Tools" has the complete Caig line at decent prices, and I think I'll get some of both DeOxit and Faderlube. Have an audio pot on my KWM2A that needs a shot, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5878. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 22:53:40 UTC
From: Garey Barrell
Topic: 5856 Message: 5878

Don -

I use the 5% spray for FaderLube. Seems to clean plenty, and leaves a nice lube. I guess the 100
would be ok, but that strikes me as too much to be spraying around! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> Which strength of the Faderlube do you use, the 100% like on DeOxit?? Through Amazon the company "Micro-Tools" has the complete Caig line at decent prices, and I think I'll get some of both DeOxit and Faderlube. Have an audio pot on my KWM2A that needs a shot, hi.
> 73,
> Don, WB5HAK
>

5879. Re: [DrakeRadio] Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-08 22:56:56 UTC
From: Don Cunningham
Topic: 5856 Message: 5879

Thanks, my friend, 5% it is. I suspected that would be your answer, but wanted to ask.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5880. Re: [DrakeRadio] Where to connect loose wire

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-09 06:37:44 UTC
From: David Rogers
Topic: 5844 Message: 5880

Excellent. I just ordered a copy.

Thanks, again.

David, WA7ZYQ

----- Original Message -----
From: Garey Barrell
To: DrakeRadio@yahoogroups.com
Sent: Saturday, October 08, 2011 8:38 AM
Subject: Re: [DrakeRadio] Where to connect loose wire

The hard copy is from Mark at <http://www.ke9pq.com>

It's $20 plus shipping, and a VERY good scan with full size (fold-out) drawings.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jim Shorney wrote:
> On Sat, 8 Oct 2011 00:13:29 -0700, David Rogers wrote:
>
>> I have a pdf of the service manual but the photos are illegible. Maybe I should spring for the real deal one of these days.
> I
> also purchased a very good hardcopy repro from an eBay seller who later offered
> it on CD as well, it may be the same fellow that Garey mentioned.
>

[Non-text portions of this message have been removed]

5881. L-4B PS Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-10 12:31:28 UTC
From: MarkB
Topic: 5881 Message: 5881

HI Group
I have a L-4B and PS The cable that goes from the PS to the AMP is very short ,I want to place the power supply under the bench is there a longer cable available for them, about three foot ??
or could I make a new cable ?? Is there any issues with making a longer cable ??

IF I made one I don't know what to use for the HT lead in the cable ?? The original one look like Teflon insulation ??
Any ideas on this matter
Thanks Mark VK2MTB

5882. Re: [DrakeRadio] L-4B PS Cable

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-10 14:52:00 UTC
From: lee
Topic: 5881 Message: 5882

That cable can be replaced with the center conductor and insulation around it from RG-8 coax with the outer jacket and shield removed.

Lee, w0vt

Subject: [DrakeRadio] L-4B PS Cable

HI Group
I have a L-4B and PS The cable that goes from the PS to the AMP is very short ,I want to place the power supply under the bench is there a longer cable available for them, about three foot ??
or could I make a new cable ?? Is there any issues with making a longer cable ??

IF I made one I don't know what to use for the HT lead in the cable ?? The original one look like Teflon insulation ??
Any ideas on this matter
Thanks Mark VK2MTB

[Non-text portions of this message have been removed]

5883. Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 02:46:39 UTC
From: _
Topic: 5883 Message: 5883

I have an R7 and matching speaker that I plan on offering for sale in the near future. It is on the bench now being checked out, it and the speaker appears to work to factory spec. There may be a few minor blemishes on the cabinet but I dont remember seeing any major scratches, dents or dings.

Question.. what does an R7 and matching speaker go for these days on the used market?

Thanks for any help

Jim

5884. Re: [DrakeRadio] Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 03:10:50 UTC
From: Jim Shorney
Topic: 5883 Message: 5884

On Tue, 11 Oct 2011 02:46:39 -0000, _ wrote:

>Question.. what does an R7 and matching speaker go for these days on the used market?

Look here:

http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm

Price is dependant to a degree on options and filters installed, so it is
imortant to list everything in the receiver.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5885. Re: [DrakeRadio] Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 03:21:59 UTC
From: Dennis Weal
Topic: 5883 Message: 5885

The list has not been updated in over a year. I would suggest that due to the economy the prices have changed somewhat. Except for the best of the best.

Denny

W4EAL

----- Original Message -----
From: Jim Shorney
Sent: 10/10/11 11:10 PM
To: drake-radio-operators@yahoogroups.com, DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Drake R7 & Matching speaker

On Tue, 11 Oct 2011 02:46:39 -0000, _ wrote:

>Question.. what does an R7 and matching speaker go for these days on the used market?

Look here:

http://www.wb4hfn.com/DRAKE/DrakeSalePriceHistory.htm

Price is dependant to a degree on options and filters installed, so it is
imortant to list everything in the receiver.

73

-Jim

--
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5886. Re: [DrakeRadio] Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 03:24:31 UTC
From: Don Cunningham
Topic: 5883 Message: 5886

I agree, Denny, I am seeing pretty "prime" gear selling considerably less than the median prices right now. No reflection on Ron's list, just facts and the times.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5887. Re: [DrakeRadio] Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 03:51:06 UTC
From: Jim Shorney
Topic: 5883 Message: 5887

On Mon, 10 Oct 2011 22:24:31 -0500, Don Cunningham wrote:

>
>I agree, Denny, I am seeing pretty "prime" gear selling considerably less than the median prices right now. No reflection on Ron's list, just facts and the times.

R-7s seem to hold their value well, regardless of the economy. An R-7A fully decked out with filters and NB just sold on the 'bay on Oct. 8 for $1227. I would expect a fully loaded R-7 to sell somewhere around the middle of the range listed for that model.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5888. Re: [DrakeRadio] Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 03:53:35 UTC
From: Don Cunningham
Topic: 5883 Message: 5888

I'll just say "good luck" and no more. I've seen R7's advertised and not bought too. I have one, and don't want to sell it, but doubt I could recover my cost right now.
73, YMMV,
Don

[Non-text portions of this message have been removed]

5889. Re: Drake R7 & Matching speaker

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-11 04:23:57 UTC
From: _
Topic: 5883 Message: 5889

Thanks for the info and guidance guys.. it is appreciated. I have to look at the options on this one and what was available. I believe it has the noise blanker but not sure what other options are listed in the manual.. will look in the morning..

thanks again

--- In DrakeRadio@yahoogroups.com, "_" <aat3ok@...> wrote:
>
> I have an R7 and matching speaker that I plan on offering for sale in the near future. It is on the bench now being checked out, it and the speaker appears to work to factory spec. There may be a few minor blemishes on the cabinet but I dont remember seeing any major scratches, dents or dings.
>
> Question.. what does an R7 and matching speaker go for these days on the used market?
>
> Thanks for any help
>
> Jim
>

5890. CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-12 03:04:55 UTC
From: Brenton Crowhurst
Topic: 5883 Message: 5890

Dumb question, I apologize -- it tells you how much CW I'm doing, but I'd like to do some more.

So, my TR7 manual tells me to tune in a signal for around 800hz tone . . . the transmit signal will be offset by 800hz, so no need to actually zero beat on the receive signal.

And my question is . . . ahhh, which direction is the offset? If I do, in fact, zero beat on a signal, I can hear him just about as well on one side of the null as the other.

Not knowing how to properly use this rig has left me, so far, only to call CQ on CW.

Thanks in advance.

Brenton Crowhurst,
VE6IE

5891. Re: [DrakeRadio] CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-12 04:19:53 UTC
From: Jim Shorney
Topic: 5883 Message: 5891

Hi Brent,

On Tue, 11 Oct 2011 21:04:55 -0600, Brenton Crowhurst wrote:

>So, my TR7 manual tells me to tune in a signal for around 800hz tone . . . the transmit signal will be offset by 800hz, so no need to actually zero beat on the receive signal.
>
>And my question is . . . ahhh, which direction is the offset? If I do, in fact, zero beat on a signal, I can hear him just about as well on one side of the null as the other.

This should not happen in normal operation. When receiving CW, the TR-7 is "sort of" in USB mode. You may hear some signal on the other side of zero-beat, but you shouldn't hear much.

>Not knowing how to properly use this rig has left me, so far, only to call CQ on CW.

You should still be getting callers, unless your fixed passband adjustment for CW is too far off. Try it with PBT set as for USB. The confusion with the TR-7 usually arises from a subtle difference in the way the radio operates as compared to many "import" radios, and only when you are looking for someone on a specific frequency. The TR-7 shifts the TRANSMITTER DOWN in frequency, with the dial reading the RX frequency. The "other" radios shift the RECEIVER UP in frequency, with the dial reading the transmit frequency. It's easy to completely miss the guy you're looking for on a specific frequency, especially if you have a narrow filter switched in. With causal tuning and calling, it's usually not a big deal.

Where it gets complicated is when you run across one of the older rigs that uses sideband inversion to cover the lower bands. You can end up way off from where they think you should be. But that's not a problem that's specific to the TR-7.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5892. Re: [DrakeRadio] CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-12 14:32:43 UTC
From: Forrest Plumstead
Topic: 5883 Message: 5892

Jim is that pretty much the same for the TR-7?

On Tue, Oct 11, 2011 at 11:19 PM, Jim Shorney <jshorney@...>wrote:

> **
>
>
> Hi Brent,
>
>
> On Tue, 11 Oct 2011 21:04:55 -0600, Brenton Crowhurst wrote:
>
> >So, my TR7 manual tells me to tune in a signal for around 800hz tone . . .
> the transmit signal will be offset by 800hz, so no need to actually zero
> beat on the receive signal.
> >
> >And my question is . . . ahhh, which direction is the offset? If I do, in
> fact, zero beat on a signal, I can hear him just about as well on one side
> of the null as the other.
>
> This should not happen in normal operation. When receiving CW, the TR-7 is
> "sort of" in USB mode. You may hear some signal on the other side of
> zero-beat,
> but you shouldn't hear much.
>
> >Not knowing how to properly use this rig has left me, so far, only to call
> CQ on CW.
>
> You should still be getting callers, unless your fixed passband adjustment
> for
> CW is too far off. Try it with PBT set as for USB. The confusion with the
> TR-7
> usually arises from a subtle difference in the way the radio operates as
> compared to many "import" radios, and only when you are looking for someone
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> a specific frequency. The TR-7 shifts the TRANSMITTER DOWN in frequency,
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> the dial reading the RX frequency. The "other" radios shift the RECEIVER UP
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> completely miss the guy you're looking for on a specific frequency,
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> if you have a narrow filter switched in. With causal tuning and calling,
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> usually not a big deal.

>
> Where it gets complicated is when you run across one of the older rigs that
> uses sideband inversion to cover the lower bands. You can end up way off
> from
> where they think you should be. But that's not a problem that's specific to
> the
> TR-7.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
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> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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> http://www.nebraskaghosts.org
>
>
>

--
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5893. Re: [DrakeRadio] CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-12 20:50:31 UTC
From: Jim Shorney
Topic: 5883 Message: 5893

Could you be a little more specific with your question? There's a lot in the post you quoted. Quote trimming would have helped...

73

-Jim

On Wed, 12 Oct 2011 09:32:43 -0500, Forrest Plumstead wrote:

>Jim is that pretty much the same for the TR-7?
>
>On Tue, Oct 11, 2011 at 11:19 PM, Jim Shorney <jshorney@...>wrote:
>
>> **
>>
>>
>> Hi Brent,
>>
>>
>> On Tue, 11 Oct 2011 21:04:55 -0600, Brenton Crowhurst wrote:
>>
>> >So, my TR7 manual tells me to tune in a signal for around 800hz tone . . .
>> the transmit signal will be offset by 800hz, so no need to actually zero
>> beat on the receive signal.
>> >
>> >And my question is . . . ahhh, which direction is the offset? If I do, in
>> fact, zero beat on a signal, I can hear him just about as well on one side
>> of the null as the other.
>>
>> This should not happen in normal operation. When receiving CW, the TR-7 is
>> "sort of" in USB mode. You may hear some signal on the other side of
>> zero-beat,
>> but you shouldn't hear much.
>>
>> >Not knowing how to properly use this rig has left me, so far, only to call
>> CQ on CW.
>>
>> You should still be getting callers, unless your fixed passband adjustment
>> for
>> CW is too far off. Try it with PBT set as for USB. The confusion with the
>> TR-7
>> usually arises from a subtle difference in the way the radio operates as
>> compared to many "import" radios, and only when you are looking for someone
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>> a specific frequency. The TR-7 shifts the TRANSMITTER DOWN in frequency,
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>> the dial reading the RX frequency. The "other" radios shift the RECEIVER UP
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>> frequency, with the dial reading the transmit frequency. It's easy to
>> completely miss the guy you're looking for on a specific frequency,
>> especially
>> if you have a narrow filter switched in. With causal tuning and calling,
>> it's
>> usually not a big deal.
>>
>> Where it gets complicated is when you run across one of the older rigs that
>> uses sideband inversion to cover the lower bands. You can end up way off
>> from
>> where they think you should be. But that's not a problem that's specific to
>> the
>> TR-7.
>>
>> 73
>>
>> -Jim
>>
>> --
>> Ham Radio NU0C
>> Lincoln, Nebraska, U.S.S.A.
>> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
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>> "Give a man a URL, and he will learn for an hour; teach him to Google, and
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>>
>> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
>> http://incolor.inetnebr.com/jshorney
>> http://www.nebraskaghosts.org
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>>
>
>
>
>--
>73
>WB5HQO Forrest
>Ham Radio WB5HQO http://forrest.3h.com/main.html
>Plumstead and Associated Families:
>http://freepages.genealogy.rootsweb.com/~fplum/
>
>NAQCC Member # 3678 FPQRP # 2642
>SKCC Member # 6855 QRPadillo # 59
>
>
>[Non-text portions of this message have been removed]

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>------------------------------------
>
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>

--
Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5894. Re: [DrakeRadio] CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-13 00:32:55 UTC
From: Forrest Plumstead
Topic: 5883 Message: 5894

>
> Sorry Jim wasn't thinking. So there should be an automatic shift between TX
> and RX?
>
>
> When receiving CW, the TR-7 is "sort of" in USB mode. You may hear some
> signal on the other side of zero-beat,
> but you shouldn't hear much.
>
> --
73
WB5HQO Forrest
Ham Radio WB5HQO http://forrest.3h.com/main.html
Plumstead and Associated Families:
http://freepages.genealogy.rootsweb.com/~fplum/

NAQCC Member # 3678 FPQRP # 2642
SKCC Member # 6855 QRPadillo # 59

[Non-text portions of this message have been removed]

5895. Re: [DrakeRadio] CW on TR7

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-13 04:13:31 UTC
From: Jim Shorney
Topic: 5883 Message: 5895

On Wed, 12 Oct 2011 19:32:55 -0500, Forrest Plumstead wrote:

>>
>> Sorry Jim wasn't thinking. So there should be an automatic shift between TX
>> and RX?
>>

Yes, about 800 Hz with the RIT off or centered. You can use the RIT to tailor the offset to your liking, or actually adjust the frequency of the offset oscillator on the 2nd IF/Audio board over a limited range.

Side note: K8AC's article on key clicks in the TR-7 at http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7_Key_Clicks.pdf is an excellent contribution to the art. I followed Floyd's guidelines in the article and tweaked my TR-7 into a near-perfect CW keying waveform.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5896. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-16 21:14:12 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5896

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5897. Re: Re-capping an R-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-18 02:19:33 UTC
From: Lee Hiers
Topic: 5856 Message: 5897

On Sat, Oct 8, 2011 at 11:10 AM, Lee Hiers <lee.hiers@...> wrote:

> I picked up an R-4 (no-suffix) about a year ago and listened on it for
> a while with just a random wire inside the house. Really like the
> radio. Back in the spring, it developed a hum, and sounded like the
> radio was zero-beat with a carrier wherever I tuned. I figured filter
> caps were bad, and probably something in the AGC circuit.

Hi folks...

Just to, uh, recap...

I replaced the can cap along with the two electrolytics included with
the Hayseed kit. That completely took care of the hum, naturally,
and, happily, the apparent AGC problem. I picked up a 12BZ6 along
with a couple 12BA6s, but no need to change 'em. I now have spares.
;-)

I'll have to wait to check the rig out on the higher frequencies, but
it's doing great on 40/80/160 now and that's where it's going to spend
most of its time anyway!

Next step: get the Heathkit DX-40 up and running!

Thanks to all for the help.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

5898. strange hookups on R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-19 02:44:17 UTC
From: dtompsett
Topic: 5898 Message: 5898

I'm playing around with an R4B that was passed along to me. Previous owner definitely didn't do these mod's.

On the back cover there are 2 extra 'rca' plugs... one in the 'spare' hole (labelled "Scan"), one on the opposite side, between accy power and inj. plug (labelled "Mon").

"Scan" is hooked up the V2 using some old coax... shield is soldered to ground at V2-2, center pin is soldered to small cap (12+/-5em) on V2-5.

"Mon" is hooked up much the same way to V5. IIRC it's the same pin connections.

What would these be for? This mod looks OE... cap's are same style and appear to be the same vintage as other's in the rig. I checked the wiring diagrams and they don't appear to be anything original on those tube socket connections.

Would a picture help?

I notice a few pics online of other R4B's with a socket in the 'Spare' location... like here at AI4FR's site... http://www.ai4fr.com/main/page_ham_radio_drake_r4b.html

Any insight would be appreciated.

5899. Re: [DrakeRadio] strange hookups on R4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-19 17:32:07 UTC
From: Garey Barrell
Topic: 5898 Message: 5899

I don't know of any 'almost official' mods of that sort.

They sound like pick-off's for a 'band scanner' (V2) after the Preselector and before the roofing filter. This would be a good place to hook up a panadaptor such as a Softrock, etc. The one on V5 is after the Passband tuner and so would see only the output of the IF filter bandwidth chosen, essentially where you would attach an 'alternative' detector/audio system.

The 'spare' holes on the transmitter were intended to be used with the modifications needed to operate with the VHF accessories (TC-2, TC-6 and CC-1 with crystal controlled converters,) a 'sample' of the 14 MHz RF. The ones on the receiver are often used for attaching a scope to monitor modulation of received signals or things like your receiver was modified for.

Unless you plan to use them, I'd pull them out and re-align.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

dtompsett wrote:
> I'm playing around with an R4B that was passed along to me. Previous owner definitely didn't do these mod's.
>
> On the back cover there are 2 extra 'rca' plugs... one in the 'spare' hole (labelled "Scan"), one on the opposite side, between accy power and inj. plug (labelled "Mon").
>
> "Scan" is hooked up the V2 using some old coax... shield is soldered to ground at V2-2, center pin is soldered to small cap (12+/-5em) on V2-5.
>
> "Mon" is hooked up much the same way to V5. IIRC it's the same pin connections.
>
> What would these be for? This mod looks OE... cap's are same style and appear to be the same vintage as other's in the rig. I checked the wiring diagrams and they don't appear to be anything original on those tube socket connections.
>
> Would a picture help?
>
> I notice a few pics online of other R4B's with a socket in the 'Spare' location... like here at AI4FR's site... http://www.ai4fr.com/main/page_ham_radio_drake_r4b.html

>
> Any insight would be appreciated.
>
>

5900. TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 14:30:55 UTC
From: fred
Topic: 5900 Message: 5900

got a puzzle .
tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out .

without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?
transceiver is working well .
andrew
kd5pnt

5901. Re: [DrakeRadio] TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 14:54:46 UTC
From: Gary Woods
Topic: 5900 Message: 5901

On Thu, 20 Oct 2011 14:30:55 -0000, you wrote:

>without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?

What's your antenna? Is there a tuner between it and the TR-3?
It might be instructive to plot swr over a wider portion of 75.

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

5902. Re: TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 15:16:09 UTC
From: fred
Topic: 5900 Message: 5902

no tuner , adjusted dipole for resonance at 3900 and swr is under 1.8:1 from 3865 to 3935 . dipole is 120' of #12 thnn . coax is rg8 , no balun
the FT950 works well on it too without using the internal tuner .
andrew
kd5pnt

--- In DrakeRadio@yahoogroups.com, Gary Woods <garygarlic@...> wrote:
>
> On Thu, 20 Oct 2011 14:30:55 -0000, you wrote:
>
> >without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?
>
> What's your antenna? Is there a tuner between it and the TR-3?
> It might be instructive to plot swr over a wider portion of 75.
>
> --
> Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
> Zone 5/4 in upstate New York, 1420' elevation. NY WO G
>

5903. Re: [DrakeRadio] TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 18:27:32 UTC
From: Bernie
Topic: 5900 Message: 5903

I would say that a change in SWR (Standing Wave Ratio of Forwrd power to Reflected power) from 1.5:1 to 1.1 to 1 means that there would be more forward power observed. This tells me that your antenna is tune rather sharply and is not very broadbanded if you see that mnuch difference with only 3 kHz shift downward in frequency. It also tells me the antenna is more resonant at 3.870 than it is at 3.873. You should try doing down to 3.850 and tune up and check SWR at that frequency. You'll more than likely be up again at 1:5 or greater to 1.
I don't think there's anything wrong with your rig.

73

Bernie in NW ND

----- Original Message -----
From: fred
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 20, 2011 9:30 AM
Subject: [DrakeRadio] TR3

got a puzzle .
tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out .

without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?
transceiver is working well .
andrew
kd5pnt

[Non-text portions of this message have been removed]

5904. Re: [DrakeRadio] TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 19:47:26 UTC
From: Dan Galligan
Topic: 5900 Message: 5904

I believe that Bernie is likely right. Your antenna is likely not very broadbanded, and is about perfectly tuned to 3870khz. If you are in doubt, or have reason to think otherwise, try a different radio, tuned to those two frequencies, and check for similar results. But, I imagine the result would be about the same.
73,
Dan
W3RXO/W6

On Oct 20, 2011, at 11:27 AM, Bernie wrote:

I would say that a change in SWR (Standing Wave Ratio of Forwrd power to Reflected power) from 1.5:1 to 1.1 to 1 means that there would be more forward power observed. This tells me that your antenna is tune rather sharply and is not very broadbanded if you see that mnuch difference with only 3 kHz shift downward in frequency. It also tells me the antenna is more resonant at 3.870 than it is at 3.873. You should try doing down to 3.850 and tune up and check SWR at that frequency. You'll more than likely be up again at 1:5 or greater to 1.
I don't think there's anything wrong with your rig.

73

Bernie in NW ND

----- Original Message -----
From: fred
To: DrakeRadio@yahoogroups.com
Sent: Thursday, October 20, 2011 9:30 AM
Subject: [DrakeRadio] TR3

got a puzzle .
tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out .

without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?
transceiver is working well .
andrew
kd5pnt

[Non-text portions of this message have been removed]

Yahoo! Groups Links

5905. Re: TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 19:52:23 UTC
From: fred
Topic: 5900 Message: 5905

will check and run SWR plot on it tonight when I change antennas .
results will be posted in the morning .
andrew
kd5pnt

--- In DrakeRadio@yahoogroups.com, "Bernie" <barcand@...> wrote:
>
> I would say that a change in SWR (Standing Wave Ratio of Forwrd power to Reflected power) from 1.5:1 to 1.1 to 1 means that there would be more forward power observed. This tells me that your antenna is tune rather sharply and is not very broadbanded if you see that mnuch difference with only 3 kHz shift downward in frequency. It also tells me the antenna is more resonant at 3.870 than it is at 3.873. You should try doing down to 3.850 and tune up and check SWR at that frequency. You'll more than likely be up again at 1:5 or greater to 1.
> I don't think there's anything wrong with your rig.
>
> 73
>
> Bernie in NW ND
>
> ----- Original Message -----
> From: fred
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, October 20, 2011 9:30 AM
> Subject: [DrakeRadio] TR3
>
>
>
> got a puzzle .
> tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out .
>
> without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ?
transceiver is working well .
> andrew
> kd5pnt
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

5906. Re: TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 22:14:53 UTC
From: fred
Topic: 5900 Message: 5906

SWR Plot (taken with FT 950 at 20 watts)
checked again at maximum power , no change

3800 2:1
10 2:1
20 1.8:1
30 1.7:1
40 1.6:1
50 1.6:1
60 1.6:1
70 1.5:1
80 1.5:1
90 1.5:1
3900 1.4:1
10 1.4:1
20 1.4:1
30 1.5:1
40 1.6:1
50 1.6:1
60 1.6:1
70 1.7:1
80 1.8:1
90 1.9:1
3999 2:1

andrew
kd5pnt
--- In DrakeRadio@yahoogroups.com, Dan Galligan <w3rxo@...> wrote:
>
> I believe that Bernie is likely right. Your antenna is likely not very broadbanded, and is about perfectly tuned to 3870khz. If you are in doubt, or have reason to think otherwise, try a different radio, tuned to those two frequencies, and check for similar results. But, I imagine the result would be about the same.
> 73,
> Dan
> W3RXO/W6
>
> On Oct 20, 2011, at 11:27 AM, Bernie wrote:
>
> I would say that a change in SWR (Standing Wave Ratio of Forwrd power to Reflected power) from 1.5:1 to 1.1 to 1 means that there would be more forward power observed. This tells me that your antenna is tune rather sharply and is not very broadbanded if you see that mnuch difference with only 3 kHz shift downward in frequency. It also tells me the antenna is more resonant at 3.870 than it is at 3.873. You should try doing down to 3.850 and tune up and check SWR at that frequency. You'll more than likely be up again at 1:5 or greater to

1.
> I don't think there's anything wrong with your rig.
>
> 73
>
> Bernie in NW ND
>
> ----- Original Message -----
> From: fred
> To: DrakeRadio@yahoogroups.com
> Sent: Thursday, October 20, 2011 9:30 AM
> Subject: [DrakeRadio] TR3
>
>
>
> got a puzzle .
> tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out
.
>
> without changing anything except the main tuning dial I went down to 3870 for the BA net
, swr was down to the point where the metre would not even read anything and the power out
was up to 125 . is that a normal behavior or should I be looking for a problem ?
transceiver is working well .
> andrew
> kd5pnt
>
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>
> [Non-text portions of this message have been removed]
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>

5907. Re: [DrakeRadio] Re: TR3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-20 23:47:52 UTC
From: Garey Barrell
Topic: 5900 Message: 5907

Looks typical.

You DID retune the TR-3 each time you moved the frequency?!?

Don't forget that Forward power indicated will INCREASE with increased
SWR. SWR is calculated by the RATIO of indicated power between Forward
and Reflected.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

fred wrote:
> SWR Plot (taken with FT 950 at 20 watts)
> checked again at maximum power , no change
>
> 3800 2:1
> 10 2:1
> 20 1.8:1
> 30 1.7:1
> 40 1.6:1
> 50 1.6:1
> 60 1.6:1
> 70 1.5:1
> 80 1.5:1
> 90 1.5:1
> 3900 1.4:1
> 10 1.4:1
> 20 1.4:1
> 30 1.5:1
> 40 1.6:1
> 50 1.6:1
> 60 1.6:1
> 70 1.7:1
> 80 1.8:1
> 90 1.9:1
> 3999 2:1
>
> andrew
> kd5pnt
> --- In DrakeRadio@yahoogroups.com, Dan Galligan<w3rxo@...> wrote:
>> I believe that Bernie is likely right. Your antenna is likely not very broadbanded, and

is about perfectly tuned to 3870khz. If you are in doubt, or have reason to think otherwise, try a different radio, tuned to those two frequencies, and check for similar results. But, I imagine the result would be about the same.
>> 73,
>> Dan
>> W3RXO/W6
>>
>> On Oct 20, 2011, at 11:27 AM, Bernie wrote:
>>
>> I would say that a change in SWR (Standing Wave Ratio of Forwrd power to Reflected power) from 1.5:1 to 1.1 to 1 means that there would be more forward power observed. This tells me that your antenna is tune rather sharply and is not very broadbanded if you see that mnuch difference with only 3 kHz shift downward in frequency. It also tells me the antenna is more resonant at 3.870 than it is at 3.873. You should try doing down to 3.850 and tune up and check SWR at that frequency. You'll more than likely be up again at 1:5 or greater to 1.
>> I don't think there's anything wrong with your rig.
>>
>> 73
>>
>> Bernie in NW ND
>>
>> ----- Original Message -----
>> From: fred
>> To: DrakeRadio@yahoogroups.com
>> Sent: Thursday, October 20, 2011 9:30 AM
>> Subject: [DrakeRadio] TR3
>>
>>
>>
>> got a puzzle .
>> tuned it up on 3873 for the traffic net and the swr metre showed 1.5:1 with 110 watts out .
>>
>> without changing anything except the main tuning dial I went down to 3870 for the BA net , swr was down to the point where the metre would not even read anything and the power out was up to 125 . is that a normal behavior or should I be looking for a problem ? transceiver is working well .
>> andrew
>> kd5pnt
>>
>>

5908. Drake RV4C, removing front knobs

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-21 20:48:26 UTC
From: billykatzz
Topic: 5908 Message: 5908

I'm thinking about doing some slight cosmetics to my recently acquired RV4C remote VFO, in particular getting the grillcloth flush to the front (it's a little "sagg-y").

I've pulled the unit from the case and see the front panel is screwed to the chassis and that it appears I'll have to pull the knobs in order to access the grill cloth. The one reservation I have is the main tuning knob with the alignment skirt. Is there anything I should be aware/cautious of when removing the tuning knob?

Bill in Pasadena, NK6Q

5909. R-4B product detector improvements?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 13:15:55 UTC
From: bpierfel
Topic: 5909 Message: 5909

Anyone have opinions on improving the R-4B's distortion prone product detector with an active device like the SA-612 / NE-602?
I believe Sherwood sells a kit, anyone try it in an R4-B?

Seems like I recall reading somewhere on using HP hot carrier diodes to improve performance. Anyone done this?
tnx
Bob
KB8TL

5910. Re: [DrakeRadio] R-4B product detector improvements?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 13:53:38 UTC
From: Paul Christensen
Topic: 5909 Message: 5910

Bob,

I'm using the Sherwood PD-4 in my R-4B. Sherwood has a separate installation sheet in a MS Word format just for the R-4B. Rob Sherwood can supply you with that.

Paul, W9AC

----- Original Message -----
From: bpierfel
To: DrakeRadio@yahoogroups.com
Sent: Monday, October 24, 2011 9:15 AM
Subject: [DrakeRadio] R-4B product detector improvements?

Anyone have opinions on improving the R-4B's distortion prone product detector with an active device like the SA-612 / NE-602?
I believe Sherwood sells a kit, anyone try it in an R4-B?

Seems like I recall reading somewhere on using HP hot carrier diodes to improve performance. Anyone done this?
tnx
Bob
KB8TL

[Non-text portions of this message have been removed]

5911. Re: R-4B product detector improvements?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 15:36:19 UTC
From: bpierfel
Topic: 5909 Message: 5911

Paul,
Tnx for info. So, is it a worthwhile upgrade?
I use my R-4B mainly for CW with a home brew TX and the distortion is distracting.
Bob

--- In DrakeRadio@yahoogroups.com, "Paul Christensen" <w9ac@...> wrote:
>
> Bob,
>
> I'm using the Sherwood PD-4 in my R-4B. Sherwood has a separate installation sheet in a MS Word format just for the R-4B. Rob Sherwood can supply you with that.
>
> Paul, W9AC
>
>
> ----- Original Message -----
> From: bpierfel
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, October 24, 2011 9:15 AM
> Subject: [DrakeRadio] R-4B product detector improvements?
>
>
>
> Anyone have opinions on improving the R-4B's distortion prone product detector with an active device like the SA-612 / NE-602?
> I believe Sherwood sells a kit, anyone try it in an R4-B?
>
> Seems like I recall reading somewhere on using HP hot carrier diodes to improve performance. Anyone done this?
> tnx
> Bob
> KB8TL
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

5912. Re: [DrakeRadio] Re: R-4B product detector improvements?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 15:51:33 UTC
From: Paul Christensen
Topic: 5909 Message: 5912

Bob,

Rob Sherwood has told me the PD-4 it helps with headroom, and since the PD is an active, rather than a passive circuit, it offers better isolation. I can say that my R-4B with all of the mods performed does work and sound very good. You can search the list archives from earlier this year to see what I've done

Paul, W9AC

----- Original Message -----
From: bpierfel
To: DrakeRadio@yahoogroups.com
Sent: Monday, October 24, 2011 11:36 AM
Subject: [DrakeRadio] Re: R-4B product detector improvements?

Paul,
Tnx for info. So, is it a worthwhile upgrade?
I use my R-4B mainly for CW with a home brew TX and the distortion is distracting.
Bob

--- In DrakeRadio@yahoogroups.com, "Paul Christensen" <w9ac@...> wrote:
>
> Bob,
>
> I'm using the Sherwood PD-4 in my R-4B. Sherwood has a separate installation sheet in a MS Word format just for the R-4B. Rob Sherwood can supply you with that.
>
> Paul, W9AC
>
>
> ----- Original Message -----
> From: bpierfel
> To: DrakeRadio@yahoogroups.com
> Sent: Monday, October 24, 2011 9:15 AM
> Subject: [DrakeRadio] R-4B product detector improvements?
>
>
>
> Anyone have opinions on improving the R-4B's distortion prone product detector with an active device like the SA-612 / NE-602?
> I believe Sherwood sells a kit, anyone try it in an R4-B?
>
> Seems like I recall reading somewhere on using HP hot carrier diodes to improve performance. Anyone done this?
> tnx
> Bob

> KB8TL
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

5913. CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 16:04:04 UTC
From: wb2kki
Topic: 5913 Message: 5913

I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or should I hold out for the TR4CW?

Thanks!!
Mike
WB2KKI

5914. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 17:33:22 UTC
From: Juan Peiro
Topic: 5913 Message: 5914

The TR4C is not a good option for cw. The shift between the trasnmited and the received signa is 1 KHz, too much for nowadays transceivers designed for a shift of 600 Hz.There are some posible mods, but the risk is to bring the signal out of the FI passband filter. In the paractics, this unusual shift for today produces that your correspondent can´t listen your call or is listening out of his center filter frecuency.The CW model with the RIT allow you to choose the shift you need and is a much better option if you are a cw op.

Juan

EA5BLP

http://www.youtube.com/user/ea5blp

--- El lun, 24/10/11, wb2kki <wb2kki@...> escribió:

De: wb2kki <wb2kki@yahoo.com>
Asunto: [DrakeRadio] CW on TR4C or TR4CW
Para: DrakeRadio@yahoogroups.com
Fecha: lunes, 24 de octubre, 2011 16:04

I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or should I hold out for the TR4CW?

Thanks!!

Mike

WB2KKI

[Non-text portions of this message have been removed]

5915. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 17:43:31 UTC
From: Kris Merschrod
Topic: 5913 Message: 5915

Mike this is a weighty decision!

The TR-4any does not have 160 meters.

The TR-4CW has a 500Hz cw filter, the TR-4C does not. The TR-4CW/rit is the gem b/c you can tweek a little for better copy what with the slight offset on CW. What you gain with a TR-4 over the TX-4C is the receiver and more output power, (three finals in stead of two).

All that being said, if your really into CW then go for the cw filters 250, 500, and ??? for the R4-C that probably goes with your TX-4C. Much better listening what with Band pass,notch etc.and the TX and R4 will be synchronized. I do have a TR4 CW/rit harnessed with an R4C with the CW filters, but aside from the joy of fiddling with them b/c they are not tied together PTO-wise, there is not an advantage to having the TR-4cw/rit or w/o the rit other than the extra 100 or less watts.

Kris KM2KM

> I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C
> or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or
> should I hold out for the TR4CW?
>
> Thanks!!
> Mike
> WB2KKI
>
>

Merschrod
Brian?on, France through 2 NOV

After 3 NOV Ithaca 607 257-1734

5916. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 18:04:34 UTC
From: Michael Shelly
Topic: 5913 Message: 5916

I was thinking of a R4C and use with my TX'r but for simplification I thought just get a transceiver and selll the tx'r. What I think I will do is see what comes available and at what price and take it from there. I'm using a Collins 75S-1 with the TX'r and also use my Eico720 with the Collins as well.

Thanks to all for the responce.

>_____
>From: Kris Merschrod <kris@...>
>To: DrakeRadio@yahoogroups.com
>Sent: Monday, October 24, 2011 1:43 PM
>Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
>
>
>
>Mike this is a weighty decision!
>
>The TR-4any does not have 160 meters.
>
>The TR-4CW has a 500Hz cw filter, the TR-4C does not. The TR-4CW/rit is
>the gem b/c you can tweek a little for better copy what with the slight
>offset on CW. What you gain with a TR-4 over the TX-4C is the receiver
>and more output power, (three finals in stead of two).
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>All that being said, if your really into CW then go for the cw filters
>250, 500, and ??? for the R4-C that probably goes with your TX-4C. Much
>better listening what with Band pass,notch etc.and the TX and R4 will be
>synchronized. I do have a TR4 CW/rit harnessed with an R4C with the CW
>filters, but aside from the joy of fiddling with them b/c they are not
>tied together PTO-wise, there is not an advantage to having the TR-4cw/rit
>or w/o the rit other than the extra 100 or less watts.
>
>Kris KM2KM
>
>> I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C
>> or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or
>> should I hold out for the TR4CW?
>>
>> Thanks!!
>> Mike
>> WB2KKI
>>
>>
>
>Merschrod

>Briançon, France through 2 NOV
>
>After 3 NOV Ithaca 607 257-1734
>
>
>
>

[Non-text portions of this message have been removed]

5917. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 18:15:58 UTC
From: Garey Barrell
Topic: 5913 Message: 5917

Mike -

If you really want to operate CW, you'd be MUCH better off sticking
with the T-4XC!!

Only the CW and CwRIT have the 500 Hz IF crystal filter.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wb2kki wrote:
> I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or should I hold out for the TR4CW?
>
> Thanks!!
> Mike
> WB2KKI
>
>

5918. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 18:22:42 UTC
From: Garey Barrell
Topic: 5913 Message: 5918

Mike -

The R-4C would be a much better choice, even over the 75S-1 for CW. CW was an afterthought with the S-1 line, (kinda like the TR-4.)

The T-4XC will transceive with the R-4C, or any other R-4 series receiver, but transceive in general is not suited to CW. EVERYONE likes a slightly different tone, and with the narrow filters some seem to use if a calling station is 100 Hz off your frequency you'll never hear them. Get an R-4C, or even better for CW would be an R-4B.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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Michael Shelly wrote:
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> Thanks to all for the responce.
>
>
>> _____
>> From: Kris Merschrod<kris@...>
>> To: DrakeRadio@yahoogroups.com
>> Sent: Monday, October 24, 2011 1:43 PM
>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
>>
>>
>>
>> Mike this is a weighty decision!
>>
>> The TR-4any does not have 160 meters.
>>
>> The TR-4CW has a 500Hz cw filter, the TR-4C does not. The TR-4CW/rit is
>> the gem b/c you can tweek a little for better copy what with the slight
>> offset on CW. What you gain with a TR-4 over the TX-4C is the receiver
>> and more output power, (three finals in stead of two).
>>
>> All that being said, if your really into CW then go for the cw filters

>> 250, 500, and ??? for the R4-C that probably goes with your TX-4C. Much
>> better listening what with Band pass,notch etc.and the TX and R4 will be
>> synchronized. I do have a TR4 CW/rit harnessed with an R4C with the CW
>> filters, but aside from the joy of fiddling with them b/c they are not
>> tied together PTO-wise, there is not an advantage to having the TR-4cw/rit
>> or w/o the rit other than the extra 100 or less watts.
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>>> or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or
>>> should I hold out for the TR4CW?
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>>> Thanks!!
>>> Mike
>>> WB2KKI
>>>
>>>

5919. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 19:54:35 UTC
From: Michael Shelly
Topic: 5913 Message: 5919

What is the dufferance between RBB & C I would of thought the C would be better since newer?

>_____
>From: Garey Barrell <k4oah@...>
>To: DrakeRadio@yahoogroups.com
>Cc: Michael Shelly <wb2kki@...>
>Sent: Monday, October 24, 2011 2:22 PM
>Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
>
>Mike -
>
>The R-4C would be a much better choice, even over the 75S-1 for CW. CW
>was an afterthought with the S-1 line, (kinda like the TR-4.)
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>The T-4XC will transceive with the R-4C, or any other R-4 series
>receiver, but transceive in general is not suited to CW. EVERYONE likes
>a slightly different tone, and with the narrow filters some seem to use
>if a calling station is 100 Hz off your frequency you'll never hear
>them. Get an R-4C, or even better for CW would be an R-4B.
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>73, Garey - K4OAH
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>> Thanks to all for the responce.
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>>> From: Kris Merschrod<kris@merschrod.net>
>>> To: DrakeRadio@yahoogroups.com
>>> Sent: Monday, October 24, 2011 1:43 PM
>>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
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>>> Mike this is a weighty decision!
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>>> The TR-4any does not have 160 meters.
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>>> All that being said, if your really into CW then go for the cw filters
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>>> filters, but aside from the joy of fiddling with them b/c they are not
>>> tied together PTO-wise, there is not an advantage to having the TR-4cw/rit
>>> or w/o the rit other than the extra 100 or less watts.
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>>>> Thanks!!
>>>> Mike
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>>>>
>
>
>

[Non-text portions of this message have been removed]

5920. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 20:49:44 UTC
From: Garey Barrell
Topic: 5913 Message: 5920

Mike -

The C IS newer, but is a completely different receiver. I just sent the below on another list to someone who asked the difference between the R-4A and the R-4C..

>>>>>>>>>>

Entirely different receiver. Similar block diagram, but while the 'early' A (yes, there are two distinct versions of the A) is almost 100% vacuum tubes, the C has vacuum tubes ONLY in the primary signal path RF and IF stages, all else is solid state. The A uses L/C filters in four bandwidths, 0.4, 1.2, 2.4 and 4.8 kHz and a noise blanker standard. The C uses 8 pole crystal filters in the second IF, 0.250, 0.500, 1.5, 2.4 and 4 or 6 kHz, each of which is an optional accessory, along with an optional Noise Blanker.

All that aside, the A is a very smooth receiver with excellent audio that you can listen to all day without fatigue, as opposed to the phase distortion and group delay of the crystal filters in the C. For day-to-day hamming, I much prefer the B, which is essentially the late A with a few oscillators converted to solid state. The A _WILL_ transceive with the T-4XC, ALL 4 Series units will 'mix and match' just fine.

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The 'late' version of the A is similar to the B, primarily cosmetic and minor circuit changes. Aside from the audio differences, the major variance is between the L/C filters in the A and B, and the 8 pole crystal filters in the C. The A/B filters have about a three or four to one shape factor, meaning that the skirts drop off more slowly from the passband, as opposed to the crystal filters that are two to one shape factor with much steeper drop off. The practical result is that with the A/B filters you'll still hear nearby signals, just at a reduced level. The C filters essentially take out everything that is just barely out of the passband. I prefer the 'softer' slope for everyday hamming activity, especially on CW. I like to know what's going on around 'my' frequency! Not insignificant is the difference in cost between the two. The "B" will typically sell in the $200 - 250 range, with the occasional 'bargain' with a rusted chassis and extra holes in the front panel. A "C" will sell for about the same, BUT only the 2.4 kHz filter is standard, each additional filter, IF you can find them, will be between $50 and 125 depending upon bandwidth. If you want (need) a Noise Blanker, it will cost $150 and up, and are difficult to find outside of a receiver.

So that's MY opinion. I have several A, B and C Lines, a 7 Line and a
Collins S-3B-Line. The B Line is on the main desk, the 7-Line is on the
computer desk, and the others are on shelves or in the closet.

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73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>> From: Garey Barrell<k4oah@...>
>> To: DrakeRadio@yahoogroups.com
>> Cc: Michael Shelly<wb2kki@...>
>> Sent: Monday, October 24, 2011 2:22 PM
>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
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>> Mike -
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>>>>> Mike
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5921. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-24 20:58:25 UTC
From: Michael Shelly
Topic: 5913 Message: 5921

Thanks Very helpful will.
Mike

>_____
>From: Garey Barrell <k4oah@...>
>To: DrakeRadio@yahoogroups.com
>Sent: Monday, October 24, 2011 4:49 PM
>Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
>
>
>
>Mike -
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>The C IS newer, but is a completely different receiver. I just sent the
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>St Charles, IL
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>>> From: Garey Barrell<k4oah@...>
>>> To: DrakeRadio@yahoogroups.com
>>> Cc: Michael Shelly<wb2kki@...>
>>> Sent: Monday, October 24, 2011 2:22 PM
>>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
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>>>>> From: Kris Merschrod<kris@...>
>>>>> To: DrakeRadio@...m
>>>>> Sent: Monday, October 24, 2011 1:43 PM
>>>>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
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>
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[Non-text portions of this message have been removed]

5922. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-25 00:22:01 UTC
From: Paul Pollock
Topic: 5913 Message: 5922

Hey Gary,

Lest we forget, R4 A&B are double conversion, while the R4c is a really rotten triple conversion <grin>. After one pays $500 for a box-stock 'C', then pays for the extra bandwidth crystals, then does all the Sherwood mods to get the goodness designed into the radio; to perform like its' potential, you'll have about $1200+ in the receiver. But then it WORKS like a modern contest rig.

Without all that, the R4c is quite mediocre.

I agree with you, the A is good, if you can tolerate the mild drift in it. But the B is a gem hiding behind a low price, buck-teeth, a lousy dress and glasses <grin>. I'll take a B, any day, to backup my TR-4 (if I can find a B in good shape) <wink!>.

-Paul Pollock
KD7BWB

On Oct 24, 2011, at 1:49 PM, Garey Barrell wrote:

> Mike -
>
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> below on another list to someone who asked the difference between the
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> >>>>>
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[Non-text portions of this message have been removed]

5923. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-25 00:28:26 UTC
From: Paul Pollock
Topic: 5913 Message: 5923

To Michael Shelly,

The TR-4c is a great and much improved transceiver, over the TR-4.

But the R4c a is poorly developed triple conversion receiver that never really matched the hype with its' performance. R4a&b came with everything you had to pay extra for in the c model. R4c didn't even come with the NB (which is standard on all other R4's).

If you want a contest grade tube receiver, and you have the pile of money to make it such; get the R4c. But if you want a great receiver with all the bells and whistles, and still performs fairly well at a decent price, get an a or b. Insiders joke I'm afraid <grin>.

-Paul Pollock
KD7BWB

On Oct 24, 2011, at 12:54 PM, Michael Shelly wrote:

> What is the dufferance between RBB & C I would of thought the C would be better since newer?
>
> >_____
> >From: Garey Barrell <k4oah@...>
> >To: DrakeRadio@yahoogroups.com
> >Cc: Michael Shelly <wb2kki@...>
> >Sent: Monday, October 24, 2011 2:22 PM
> >Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
> >
> >Mike -
> >
> >The R-4C would be a much better choice, even over the 75S-1 for CW. CW
> >was an afterthought with the S-1 line, (kinda like the TR-4.)
> >
> >The T-4XC will transceive with the R-4C, or any other R-4 series
> >receiver, but transceive in general is not suited to CW. EVERYONE likes
> >a slightly different tone, and with the narrow filters some seem to use
> >if a calling station is 100 Hz off your frequency you'll never hear
> >them. Get an R-4C, or even better for CW would be an R-4B.
> >
> >--
> >73, Garey - K4OAH
> >St Charles, IL
> >
> >Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >and TR-4/C Service Supplement CDs
> ><www.k4oah.com>
> >

> >
> >Michael Shelly wrote:
> >> I was thinking of a R4C and use with my TX'r but for simplification I thought just get a transceiver and selll the tx'r. What I think I will do is see what comes available and at what price and take it from there. I'm using a Collins 75S-1 with the TX'r and also use my Eico720 with the Collins as well.
> >>
> >> Thanks to all for the responce.
> >>
> >>
> >>> _____
> >>> From: Kris Merschrod<kris@...>
> >>> To: DrakeRadio@yahoogroups.com
> >>> Sent: Monday, October 24, 2011 1:43 PM
> >>> Subject: Re: [DrakeRadio] CW on TR4C or TR4CW
> >>>
> >>>
> >>>
> >>> Mike this is a weighty decision!
> >>>
> >>> The TR-4any does not have 160 meters.
> >>>
> >>> The TR-4CW has a 500Hz cw filter, the TR-4C does not. The TR-4CW/rit is
> >>> the gem b/c you can tweek a little for better copy what with the slight
> >>> offset on CW. What you gain with a TR-4 over the TX-4C is the receiver
> >>> and more output power, (three finals in stead of two).
> >>>
> >>> All that being said, if your really into CW then go for the cw filters
> >>> 250, 500, and ??? for the R4-C that probably goes with your TX-4C. Much
> >>> better listening what with Band pass,notch etc.and the TX and R4 will be
> >>> synchronized. I do have a TR4 CW/rit harnessed with an R4C with the CW
> >>> filters, but aside from the joy of fiddling with them b/c they are not
> >>> tied together PTO-wise, there is not an advantage to having the TR-4cw/rit
> >>> or w/o the rit other than the extra 100 or less watts.
> >>>
> >>> Kris KM2KM
> >>>
> >>>> I am looking to replace my Drake transmitter Tx4C with a transceiver TR4C
> >>>> or TR4Cw. Being a CW op does the TR4C have any CW filtering at all or
> >>>> should I hold out for the TR4CW?
> >>>>
> >>>> Thanks!!
> >>>> Mike
> >>>> WB2KKI
> >>>>
> >>>>
> > >
> > >
> > >
>

> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

5924. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-25 01:34:07 UTC
From: Don Cunningham
Topic: 5913 Message: 5924

Garey,
Just a thought on my part, and a question to you, but what about the TR4C and an R4B (or even the R4A since he can get it for free) as an external receiver using that blasted switch we both hate in it's transceive position?? That would solve the tone problem AND give you some nice CW filtering??? As I started, just a thought I haven't seen voiced.
73 all,
Don, WB5HAK

[Non-text portions of this message have been removed]

5925. Re: [DrakeRadio] CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-25 03:55:03 UTC
From: Garey Barrell
Topic: 5913 Message: 5925

Don -

I thought those were two different guys, but ...

Not really a 'bad' idea, you just have more invested in the TX part than you need. There really isn't much difference between the TR-4 and the T-4X as far as output power goes. Especially if you follow the 'Revised' tuning instructions for both. The T-4X says I think 340 mA maximum and the TR-4 says 350 mA maximum. Plus you need three PA tubes instead of only two. Even at best, the T-4X will put out 140W on the low bands on CW and the TR-4 only does 200 in perfect tune.

If you HAVE a TR-4(any), then adding an outboard receiver would be a viable approach. But if you have to buy either a T-4X -OR- a TR-4(any) I'd definitely go with the T-4X....

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> Just a thought on my part, and a question to you, but what about the TR4C and an R4B (or even the R4A since he can get it for free) as an external receiver using that blasted switch we both hate in it's transceive position?? That would solve the tone problem AND give you some nice CW filtering??? As I started, just a thought I haven't seen voiced.
> 73 all,
> Don, WB5HAK
>
>

5926. CW on TR4C or TR4CW

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-25 17:35:38 UTC
From: wb2kki
Topic: 5913 Message: 5926

Thanks all for the input. The answer surprised me I will rethink all.

Again Thanks
Mike
WB2KKI

5927. TR7A No have RF out

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-26 20:32:21 UTC
From: jhonny jose aldana araque
Topic: 5927 Message: 5927

Greetings dear friends

Name is Jhonny call YV5KG from Caracas Venezuela I have one line Drake TR7A, and I have the following problem.

When I go to tranmitir I have no power in my wattmeter RF, the recepsion my radio is very good, but has no 1 watt output is blocked reading several websites for information about pin diode rf stage.

protecting the RF stage but does not generate power using CW and SSB least is the only flaw that presents please if can help me thank all of you will know.

Jhonny Aldana
YV5KG

[Non-text portions of this message have been removed]

5928. Xtals for DRAKE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-28 17:48:54 UTC
From: Frank
Topic: 5928 Message: 5928

I have two crystals here that are marked spare for DRAKE in my junk drawer.
One is marked 12.90000 T-4XC.
Another marked 9001.5khz ...which rig ??

Free with SASE....otherwise they go to file 13.

Frank VO1HP

5929. TR7 Digital display driver IC's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-28 17:42:41 UTC
From: Frank
Topic: 5929 Message: 5929

I have on hand NEW never used:

4 x SN74LS147N
9 x ULN2003A

These IC's work in the display driver board for the TR7.

FREE with SASE for individual items or for the lot

Frank VO1HP

5930. Re: [DrakeRadio] Xtals for DRAKE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-28 18:12:24 UTC
From: William Houghton
Topic: 5928 Message: 5930

The 12.9 would be 1.5MHz on my R-4A.
I'll take it!

73,
Bill

From: Frank <fdavis@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 28, 2011 10:48:54 AM
Subject: [DrakeRadio] Xtals for DRAKE?

I have two crystals here that are marked spare for DRAKE in my junk drawer.
One is marked 12.90000 T-4XC.
Another marked 9001.5khz ...which rig ??

Free with SASE....otherwise they go to file 13.

Frank VO1HP

[Non-text portions of this message have been removed]

5931. Re: [DrakeRadio] Xtals for DRAKE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-28 18:12:59 UTC
From: William Houghton
Topic: 5928 Message: 5931

I meant 1.8 MHz, but I'll still take it.

From: William Houghton <rdrbill@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 28, 2011 11:12:24 AM
Subject: Re: [DrakeRadio] Xtals for DRAKE?

The 12.9 would be 1.5MHz on my R-4A.
I'll take it!

73,
Bill

From: Frank <fdavis@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 28, 2011 10:48:54 AM
Subject: [DrakeRadio] Xtals for DRAKE?

I have two crystals here that are marked spare for DRAKE in my junk drawer.
One is marked 12.90000 T-4XC.
Another marked 9001.5khz ...which rig ??

Free with SASE....otherwise they go to file 13.

Frank VO1HP

[Non-text portions of this message have been removed]

5932. Re: Xtals for DRAKE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-28 22:56:08 UTC
From: Frank
Topic: 5928 Message: 5932

OK Bill

...send me a small sized padded envelope and $3.00 for postage and I'll send them all to you.

73 Frank VO1HP

My address
Frank Davis
2 Crabapple Place
St.John's NL
CANADA
A1A 5L7

--- In DrakeRadio@yahoogroups.com, William Houghton <rdrbill@...> wrote:
>
> I meant 1.8 MHz, but I'll still take it.
>
>
>
>
> _____
> From: William Houghton <rdrbill@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 28, 2011 11:12:24 AM
> Subject: Re: [DrakeRadio] Xtals for DRAKE?
>
>
> The 12.9 would be 1.5MHz on my R-4A.
> I'll take it!
>
> 73,
> Bill
>
>
>
>
> _____
> From: Frank <fdavis@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 28, 2011 10:48:54 AM
> Subject: [DrakeRadio] Xtals for DRAKE?
>
> Â
> I have two crystals here that are marked spare for DRAKE in my junk drawer.
> One is marked 12.90000 T-4XC.

> Another marked 9001.5khz ...which rig ??
>
> Free with SASE....otherwise they go to file 13.
>
> Frank VO1HP
>
>
>
>
> [Non-text portions of this message have been removed]
>

5933. Re: [DrakeRadio] Re: Xtals for DRAKE?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-29 01:07:35 UTC
From: William Houghton
Topic: 5928 Message: 5933

WIll do - thanks...

From: Frank <fdavis@...>
To: DrakeRadio@yahoogroups.com
Sent: Fri, October 28, 2011 3:56:08 PM
Subject: [DrakeRadio] Re: Xtals for DRAKE?

OK Bill

...send me a small sized padded envelope and $3.00 for postage and I'll send them all to you.

73 Frank VO1HP

My address
Frank Davis
2 Crabapple Place
St.John's NL
CANADA
A1A 5L7

--- In DrakeRadio@yahoogroups.com, William Houghton <rdrbill@...> wrote:
>
> I meant 1.8 MHz, but I'll still take it.
>
>
>
>
> ---
> From: William Houghton <rdrbill@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 28, 2011 11:12:24 AM
> Subject: Re: [DrakeRadio] Xtals for DRAKE?
>
>
> The 12.9 would be 1.5MHz on my R-4A.
> I'll take it!
>
> 73,
> Bill
>
>
>
>
> ---

> From: Frank <fdavis@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Fri, October 28, 2011 10:48:54 AM
> Subject: [DrakeRadio] Xtals for DRAKE?
>
> Â
> I have two crystals here that are marked spare for DRAKE in my junk drawer.
> One is marked 12.90000 T-4XC.
> Another marked 9001.5khz ...which rig ??
>
> Free with SASE....otherwise they go to file 13.
>
> Frank VO1HP
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

5934. RV4C "chirping" in transmit

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-29 16:12:17 UTC
From: billykatzz
Topic: 5934 Message: 5934

My "new" RV4C unit works great in the receive mode, but several ops have reported my CW signal has a chirp when I tried using the unit in the transmit/receive mode.

Looking over the schematic, I see the unit uses a single 12AU7 tube. Could the tube be the culprit, or should I be looking somewhere else?

Bill in Pasadena, NK6Q

5935. TR-7 Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-30 14:35:42 UTC
From: qrpcwop
Topic: 5935 Message: 5935

I dug through the archives, but wasn't able to confirm my belief that the TR-7 uses the same Lee HT-172 Blue Lagoon filter as the 3 & 4 lines.

I installed blue LEDs a couple years ago, thinking that I'll get used to it over time, but it just ain't happening, so I'm going to go back to the ancient incandescent lamps.

73 - Al, K2ZN

5936. Re: [DrakeRadio] TR-7 Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-30 14:41:40 UTC
From: Garey Barrell
Topic: 5935 Message: 5936

Al -

Yes, it uses the same material. It 'looks' bluer because it's in front
of the light..

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

qrpcwop wrote:
> I dug through the archives, but wasn't able to confirm my belief that the TR-7 uses the same Lee HT-172 Blue Lagoon filter as the 3& 4 lines.
>
> I installed blue LEDs a couple years ago, thinking that I'll get used to it over time, but it just ain't happening, so I'm going to go back to the ancient incandescent lamps.
>
> 73 - Al, K2ZN
>
>
>

5937. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-30 20:35:00 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 5937

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

5938. Re: TR-7 Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-30 21:29:54 UTC
From: qrpcwop
Topic: 5935 Message: 5938

Thanks, Garey

There's a theatrical supply dealer in town - perhaps I'll get lucky. I've tried the Peacock Blue nail polish route in the past, but had dismal results.

73, Al

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Al -
>
> Yes, it uses the same material. It 'looks' bluer because it's in front
> of the light..
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>

5939. Re: [DrakeRadio] Re: TR-7 Blue Filter

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-30 21:43:34 UTC
From: Joe
Topic: 5935 Message: 5939

Hi Al..

Send me a SASE and I will send you a swatch of the Lagoon Blue filter. A 4x4 swatch big enough..or would you need it larger? Better figure enough if a boo-boo occurs..

My address is:

Joe Wolfe
WA6RKN
P.O. Box 33033
Reno, Nevada, 89533

----- Original Message -----
From: "qrpcwop" <k2zn@...>
Subject: [DrakeRadio] Re: TR-7 Blue Filter

> Thanks, Garey
>
> There's a theatrical supply dealer in town - perhaps I'll get lucky. I've
> tried the Peacock Blue nail polish route in the past, but had dismal
> results.

5940. L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 03:00:55 UTC
From: ALAN PHILLIPS
Topic: 5940 Message: 5940

I was using my L4B and my kenwood 940 S during the contest today and I discovered that I can tune up the amp on 10 meters and get a plate I dip in two places. I found this out by accident. The plate control dipped with the pointer on the 15M part of the scale. Grid I was 225, Plate I was around .6 and I had 1 kw out. The audio looked good on the scope.

Then I found the Dip right below the 10M part of the scale and the amp tuned up ok with similiar readings as above. Why would it tune up in two places?

The RF output on my Tek scope looked the same when I talked into the mic on my 940.

Any ideas would be appreciated.

thanks, Al kc9ys

[Non-text portions of this message have been removed]

5941. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 13:43:17 UTC
From: Garey Barrell
Topic: 5940 Message: 5941

Hi Al -

Sounds like you should check Section 5.22 of the manual.!

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> I was using my L4B and my kenwood 940 S during the contest today and I
> discovered that I can tune up the amp on 10 meters and get a plate I dip in two
> places. I found this out by accident. The plate control dipped with the
> pointer on the 15M part of the scale. Grid I was 225, Plate I was around .6 and
> I had 1 kw out. The audio looked good on the scope.
>
> Then I found the Dip right below the 10M part of the scale and the amp tuned up
> ok with similiar readings as above. Why would it tune up in two places?
>
>
> The RF output on my Tek scope looked the same when I talked into the mic on my
> 940.
>
> Any ideas would be appreciated.
>
> thanks, Al kc9ys
>
>

5942. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 14:55:14 UTC
From: Joe
Topic: 5940 Message: 5942

5.22?? Garey..my L-4B manual shows 5.22 as Power Supply...and nothing in the section!

Are there different manuals? Wouldn't surprise me. Mine is the original that came with the amplifier.

Joe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Garey Barrell" <k4oah@...>
Subject: Re: [DrakeRadio] L4B tuning for 10M.

> Hi Al -
>
> Sounds like you should check Section 5.22 of the manual.!

5943. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 14:56:08 UTC
From: ALAN PHILLIPS
Topic: 5940 Message: 5943

Hi Garey:

I'm at work now with no manual.

What does that section refer to?

tnx al.

From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Mon, October 31, 2011 8:43:17 AM
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Al -

Sounds like you should check Section 5.22 of the manual.!

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> I was using my L4B and my kenwood 940 S during the contest today and I
> discovered that I can tune up the amp on 10 meters and get a plate I dip in
two
> places. I found this out by accident. The plate control dipped with the
> pointer on the 15M part of the scale. Grid I was 225, Plate I was around .6
and
> I had 1 kw out. The audio looked good on the scope.
>
> Then I found the Dip right below the 10M part of the scale and the amp tuned
up
> ok with similiar readings as above. Why would it tune up in two places?
>
>
> The RF output on my Tek scope looked the same when I talked into the mic on my
> 940.
>
> Any ideas would be appreciated.
>
> thanks, Al kc9ys
>

>

[Non-text portions of this message have been removed]

5944. RE: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 14:58:34 UTC
From: Jim Chaggaris
Topic: 5940 Message: 5944

Hi Al!

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS
Sent: Monday, October 31, 2011 9:56 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Garey:

I'm at work now with no manual.

What does that section refer to?

tnx al.

From: Garey Barrell <k4oah@... <mailto:k4oah%40mindspring.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Mon, October 31, 2011 8:43:17 AM
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Al -

Sounds like you should check Section 5.22 of the manual.!

--
73, Garey - K4OAH

St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> I was using my L4B and my kenwood 940 S during the contest today and I
> discovered that I can tune up the amp on 10 meters and get a plate I dip in
two
> places. I found this out by accident. The plate control dipped with the
> pointer on the 15M part of the scale. Grid I was 225, Plate I was around .6
and
> I had 1 kw out. The audio looked good on the scope.
>
> Then I found the Dip right below the 10M part of the scale and the amp tuned
up
> ok with similiar readings as above. Why would it tune up in two places?
>
>
> The RF output on my Tek scope looked the same when I talked into the mic on my
> 940.
>
> Any ideas would be appreciated.
>
> thanks, Al kc9ys
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5945. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 15:27:15 UTC
From: ALAN PHILLIPS
Topic: 5940 Message: 5945

Hi Jim

tnx and BEST REGARDS TO YOU !!

    TRY your L4B on ten meters... I bet you will get a double dip...(no, not ice cream...

73 al

From: Jim Chaggaris <jimc@pwrone.com>
To: DrakeRadio@yahoogroups.com
Sent: Mon, October 31, 2011 9:58:34 AM
Subject: RE: [DrakeRadio] L4B tuning for 10M.

Hi Al!

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of ALAN PHILLIPS
Sent: Monday, October 31, 2011 9:56 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Garey:

I'm at work now with no manual.

What does that section refer to?

tnx al.

From: Garey Barrell <k4oah@... <mailto:k4oah%40mindspring.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Mon, October 31, 2011 8:43:17 AM
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Al -

Sounds like you should check Section 5.22 of the manual.!

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> I was using my L4B and my kenwood 940 S during the contest today and I
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two
> places. I found this out by accident. The plate control dipped with the
> pointer on the 15M part of the scale. Grid I was 225, Plate I was around .6
and
> I had 1 kw out. The audio looked good on the scope.
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> Then I found the Dip right below the 10M part of the scale and the amp tuned
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> ok with similiar readings as above. Why would it tune up in two places?
>
>
> The RF output on my Tek scope looked the same when I talked into the mic on my
> 940.
>
> Any ideas would be appreciated.
>
> thanks, Al kc9ys
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5946. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 15:38:20 UTC
From: Garey Barrell
Topic: 5940 Message: 5946

Hi Al -

Sorry, you'd think I'd have learned not to trust my memory by now.
Section 5.21 See attached!

<http://www.wb4hfn.com/DRAKE/DrakeManuals/L4B/Manual_L4B.htm>

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
> Hi Garey:
>
> I'm at work now with no manual.
>
> What does that section refer to?
>
> tnx al.
>
>
>
>
> _____
> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Mon, October 31, 2011 8:43:17 AM
> Subject: Re: [DrakeRadio] L4B tuning for 10M.
>
>
> Hi Al -
>
> Sounds like you should check Section 5.22 of the manual.!
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

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>> Any ideas would be appreciated.
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>> thanks, Al kc9ys
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>>
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5947. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 16:10:15 UTC
From: ALAN PHILLIPS
Topic: 5940 Message: 5947

I still dont know what section you are talking about. Could you just tell me.
Not all the manuals are the same 5.2 doesnt tell me anything. thanks

al

_____
From: Garey Barrell <k4oah@mindspring.com>
To: DrakeRadio@yahoogroups.com
Sent: Mon, October 31, 2011 10:38:20 AM
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Hi Al -

Sorry, you'd think I'd have learned not to trust my memory by now.
Section 5.21 See attached!

<http://www.wb4hfn.com/DRAKE/DrakeManuals/L4B/Manual_L4B.htm>

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
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> Sent: Mon, October 31, 2011 8:43:17 AM
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>> 940.
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>> Any ideas would be appreciated.
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>> thanks, Al kc9ys
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

5948. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 16:17:39 UTC
From: Garey Barrell
Topic: 5940 Message: 5948

Al -

Section 5.21 5 . 2 1

It describes how to set the knobs on the shafts for the TUNE and LOAD caps. The LOAD points to 9 o'clock with the LOAD cap fully meshed. The PLATE cap should be fullly meshed, the knob attached with the pointer at 9 o'clock. Then tune up on 21.225 MHz, 1000W input, hold the knob and manually push the red pointer to the 15M segment.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ALAN PHILLIPS wrote:
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> Not all the manuals are the same 5.2 doesnt tell me anything. thanks
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> al
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>
>
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> From: Garey Barrell<k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Mon, October 31, 2011 10:38:20 AM
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> Hi Al -
>
> Sorry, you'd think I'd have learned not to trust my memory by now.
> Section 5.21 See attached!
>
> <http://www.wb4hfn.com/DRAKE/DrakeManuals/L4B/Manual_L4B.htm>
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

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>> To: DrakeRadio@yahoogroups.com
>> Sent: Mon, October 31, 2011 8:43:17 AM
>> Subject: Re: [DrakeRadio] L4B tuning for 10M.
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>> Hi Al -
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>> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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5949. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 18:21:28 UTC
From: Don Cunningham
Topic: 5940 Message: 5949

And there I thought it was me, Joe. My L4B manual (also original) has NO section markings at all!!! Garey, that manual on WB4HFN's website is difficult for me to follow. Are you meaning he might have the tune and plate knobs misaligned??? I'm confused too.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5950. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 18:27:32 UTC
From: Don Cunningham
Topic: 5940 Message: 5950

Oops, I jumped too soon. I see the comment, Garey, thanks. No need to repeat.
73,
Don

[Non-text portions of this message have been removed]

5951. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 18:45:24 UTC
From: Garey Barrell
Topic: 5940 Message: 5951

Don -

Yes. IF the PLATE cap is not 'centered' it's possible to have two resonant points, one on either side of 'end of travel'. When the cap nears minimum capacitance, (10M,) then the end of rotation won't come at precisely 90 degrees or full mesh. So if it's a little 'short' it's possible to tune to say 95% of minimum capacitance at BOTH 95% AND 105% of maximum mesh.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
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> 73,
> Don, WB5HAK
>
>

5952. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 19:31:56 UTC
From: Don Cunningham
Topic: 5940 Message: 5952

Thank you, kind sir!! When I coorelated the place in the manual with the place in mine, it made good sense. I guess it's like all the 4 line stuff, many different manuals over the years and different schematics. My information does follow the manual on Ron's site, it just was never put into numbered sections. I guess just a different "documenter" at that time.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5953. Re: [DrakeRadio] L4B tuning for 10M.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-10-31 23:14:15 UTC
From: ALAN PHILLIPS
Topic: 5940 Message: 5953

Garey: So if I tune on either side is it bad for the amp?

I have in my notes that I had 2 dips when using 15 meters on my other L4b. Is this consistent with the cap alignment problem?

Thanks, Al. (in batavia) I wish I had your cell number.

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Mon, October 31, 2011 1:45:24 PM
Subject: Re: [DrakeRadio] L4B tuning for 10M.

Don -

Yes. IF the PLATE cap is not 'centered' it's possible to have two resonant points, one on either side of 'end of travel'. When the cap nears minimum capacitance, (10M,) then the end of rotation won't come at precisely 90 degrees or full mesh. So if it's a little 'short' it's possible to tune to say 95% of minimum capacitance at BOTH 95% AND 105% of maximum mesh.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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Don Cunningham wrote:
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>section markings at all!!! Garey, that manual on WB4HFN's website is difficult
>for me to follow. Are you meaning he might have the tune and plate knobs
>misaligned??? I'm confused too.
> 73,
> Don, WB5HAK
>
>

[Non-text portions of this message have been removed]

5954. Need specific R-4C Schematic, SN 19K Serial Number

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-01 03:22:47 UTC
From: Jeff
Topic: 5954 Message: 5954

Greetings!

This is my first post to the list, so HI all!

Ok, I caught the Drake bug again after using one back in the mid-70s. I am working on a rehabilitation of an R4C and am looking for a correct schematic. The serial number is in the 19500 range, and it uses 6HS6s instead of the 6EJ7 for three of the tubes. Specifically, I am working on the S-Meter circuit that a PO modified somewhat. My symptom, after replacing the PS capacitors, regulator board and audio output with Sherwood mods, is an S-Meter that is pinned low. The RX is excellent, but the S-Meter circuit obviously needs a bit of help. Does anyone have access to the schematic for this version of the receiver or have a link to one? I can deal with the different tube pinouts, but need a correct schematic if I can find one.

Thanks

Jeff, WI7D

5955. RE: [DrakeRadio] Digest Number 1260

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-01 03:02:59 UTC
From: Jeff Herhold
Topic: 5955 Message: 5955

Greetings!

This is my first post to the list, so HI all!

Ok, I caught the Drake bug again after using one back in the mid-70s. I am working on a rehabilitation of an R4C and am looking for a correct schematic. The serial number is in the 19500 range, and it uses 6HS6s instead of the 6EJ7 for three of the tubes. Specifically, I am working on the S-Meter circuit that a PO modified somewhat. My symptom, after replacing the PS capacitors, regulator board and audio output with Sherwood mods, is an S-Meter that is pinned low. The RX is excellent, but the S-Meter circuit obviously needs a bit of help. Does anyone have access to the schematic for this version of the receiver or have a link to one? I can deal with the different tube pinouts, but need a correct schematic if I can find one.

Thanks

Jeff, WI7D

[Non-text portions of this message have been removed]

5956. Re: [DrakeRadio] Digest Number 1260

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-01 19:19:34 UTC
From: Richard Knoppow
Topic: 5955 Message: 5956

----- Original Message -----
From: "Jeff Herhold" <jherhold@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Monday, October 31, 2011 8:02 PM
Subject: RE: [DrakeRadio] Digest Number 1260

> Greetings!
>
>
>
> This is my first post to the list, so HI all!
>
>
>
> Ok, I caught the Drake bug again after using one back in
> the mid-70s. I am
> working on a rehabilitation of an R4C and am looking for a
> correct
> schematic. The serial number is in the 19500 range, and
> it uses 6HS6s
> instead of the 6EJ7 for three of the tubes. Specifically,
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> the S-Meter circuit that a PO modified somewhat. My
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> anyone have access to
> the schematic for this version of the receiver or have a
> link to one? I can
> deal with the different tube pinouts, but need a correct
> schematic if I can
> find one.
>
>
>
> Thanks
>
>
>
> Jeff, WI7D
>

Garey Barrell, who is a very frequent contributor to
this list, publishes several CDs with very extensive
information on Drake equipment. He has stuff there you will
not find elsewhere. I very strongly recommend obtaining them
if you are working on any Drake stuff. His 4C one will have
all the variations on the schematics plus photos. See:
www.k4oah.com They are not expensive.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5957. hello friends

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-02 05:42:21 UTC
From: satyan s
Topic: 5957 Message: 5957

i have recently purchased an excellent MN2700 antenna tuner and hence joining this group to know more about the legendary drake ham radio equipments. thanks to the admin of this group for letting me in.

73s
Satyan
vu3mes

5958. Re: [DrakeRadio] hello friends

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-02 18:48:08 UTC
From: Chris Musselman
Topic: 5957 Message: 5958

Welcome to the group, Satyan. I have a Drake TR-7 transceiver with matching power supply. This group is very helpful and intelligent with Drake equipment.
73-

Chris W6ATV

----- Original Message ----

i have recently purchased an excellent MN2700 antenna tuner and hence joining this group to know more about the legendary drake ham radio equipments. thanks to the admin of this group for letting me in.

73s
Satyan
vu3mes

5959. AC Capacitors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-03 02:27:16 UTC
From: Don Cunningham
Topic: 5959 Message: 5959

I must admit I must have been asleep, or not needing the info at the time it was presented, but Garey can you expound again on the X and Y capacitor ratings I am seeing on Mouser's catalog and recommend what is good to use for old bypass caps on my Drakes, Collins, Johnson, etc rigs, or point me to a good site?? I see ratings like X400AC Y300AC after many, and am hoping that means they would be good for 110v use. I am putting 3 wire AC cords on all, fuses only on the hot lead, and will save the fused plugs for the purists that don't care about safety and wish to return them to normal.. I want to bypass the lines as I re-wire these rigs.
Thanks,
Don, WB5HAK

5960. Re: [DrakeRadio] AC Capacitors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-03 03:21:23 UTC
From: Garey Barrell
Topic: 5959 Message: 5960

Don -

Easiest to remember is that "X" capacitors go _across_ the line, and
"Y" capacitors go from either line to ground.

The main difference is that the "X" caps can short when they fail,
blowing a fuse or other protective device. The "Y" caps are designed to
fail 'open' so this cannot happen.

Both are rated by the line voltage they are designed for, but just about
all are adequate for 120 VAC line use. The '1', '2' and '3' ratings are
impulse ratings, or what voltage can be impressed across them for a
SHORT period of time without damage.

There is a good primer at

<http://www.justradios.com/safetytips.html>

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
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> a good site?? I see ratings like X400AC Y300AC after many, and am hoping
> that means they would be good for 110v use. I am putting 3 wire AC cords on
> all, fuses only on the hot lead, and will save the fused plugs for the
> purists that don't care about safety and wish to return them to normal.. I
> want to bypass the lines as I re-wire these rigs.
> Thanks,
> Don, WB5HAK
>
>

5962. Drake TR-6 For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-03 17:34:46 UTC
From: wb6tnf
Topic: 5962 Message: 5962

Thought I would let the group know that there is a TR-6 currently for sale on Ebay.

5963. Re: [DrakeRadio] AC Capacitors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-03 17:42:04 UTC
From: Don Cunningham
Topic: 5959 Message: 5963

Thanks, Garey, that link is what I should have remembered. Those folks seem nice and I think I'll give them an order to get me started with the right caps.
Vy 73,
Don

[Non-text portions of this message have been removed]

5964. Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-03 22:59:26 UTC
From: wb1ker
Topic: 5964 Message: 5964

I just got my license and bought a Drake T4XC/R4C setup. It didn't come with a mic but I did find a Electro Voice 619 Hi Z in my storage bldg. I would like to use it but I don't know how to hook it up. Can anyone help? I found a manual online but I don't understand how to make the connections to my right angle plug. The Plug has three terminals marked R S T. Can anyone help?

5965. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 01:02:02 UTC
From: William Houghton
Topic: 5964 Message: 5965

Thise are the terminal names on the original Switchcraft connector. I'm guessing they mean "ring, tip, and sleeve". Tip is obvious. I suspect that ring is the middle ring, tip is the end tip, and sleeve is the body of the connector. Just my guesses.

Another way to look at it. The mounting nut of the phone jack is ground. One of the wires is the audio input. The other wire, when connected to the ground keys the transmitter. Shorting the mic input to ground won't hurt anything. A LOT of mics do this already when the mic isn't keyed (you have to undo this in the mic to use VOX). Its pretty easy then to figure out which terminal is audio and which is key.

73,

Bill

From: wb1ker <wb1ker@yahoo.com>
To: DrakeRadio@yahoogroups.com
Sent: Thu, November 3, 2011 3:59:26 PM
Subject: [DrakeRadio] Microphone Hookup Assistance Please

I just got my license and bought a Drake T4XC/R4C setup. It didn't come with a mic but I did find a Electro Voice 619 Hi Z in my storage bldg. I would like to use it but I don't know how to hook it up. Can anyone help? I found a manual online but I don't understand how to make the connections to my right angle plug. The Plug has three terminals marked R S T. Can anyone help?

[Non-text portions of this message have been removed]

5966. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 01:14:29 UTC
From: Don Cunningham
Topic: 5964 Message: 5966

I didn't see a name on your email, so can't do this "personally" but welcome to the group. The RST on your connector stands for Ring, Sleeve and Tip. The Drake manual will show you to hook the shield to the S terminal or the sleeve (the longest metal part) of the connector. Whichever wire is the PTT (push to talk) hooks to the Tip (of course, the very end of the plug) and the audio lead from the microphone element hooks to the Sleeve (the little ring between the ring and the sleeve). You can locate the PTT lead easily by hooking one lead of your ohmmeter to the shield, and see which other wire shows a short only when you push the PTT lever or switch. The other one is the mic audio. Also mic audio is often inside the shield wire if you look closely, and is often white in the old microphones. I don't know the 619 EV mic, but Google it and you will find the wire colors if you can't follow the above.

That said, tell us your knowledge level with tube gear. You can DESTROY the final tubes in our T4XC transmitter if you aren't familiar with tube gear tuning. I don't mean to "talk down" to anyone, but these are TV sweep tubes and are NOT forgiving to abuse.

Again, welcome to the group, and hope you enjoy your C Line. If it needs any TLC, give a look on Garey's website at his CD for the Drake C Line (www.k4oah.com). It's a WEALTH of knowledge for these old rigs.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5967. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 01:19:18 UTC
From: Don Cunningham
Topic: 5964 Message: 5967

Bill,
It never fails that I see someone asking for help, no answers and I compose a book, send it and see a good answer just before me, hi. Glad we are all willing to help a new member. Unfortunately some lists are NOT.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5968. RE: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 01:21:33 UTC
From: Jim Chaggaris
Topic: 5964 Message: 5968

Bill,

TRS=Tip Ring Sleeve

Tip=PTT

Ring = Mic

Sleeve = Shield

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of William Houghton
Sent: Thursday, November 03, 2011 8:02 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Microphone Hookup Assistance Please

Thise are the terminal names on the original Switchcraft connector. I'm guessing they mean "ring, tip, and sleeve". Tip is obvious. I suspect that ring is the middle ring, tip is the end tip, and sleeve is the body of the connector. Just my guesses.

Another way to look at it. The mounting nut of the phone jack is ground. One of the wires is the audio input. The other wire, when connected to the ground keys the transmitter. Shorting the mic input to ground won't hurt anything. A LOT of mics do this already when the mic isn't keyed (you have to undo this in the mic to use VOX). Its pretty easy then to figure out which terminal is audio and

which is key.

73,

Bill

From: wb1ker <wb1ker@... <mailto:wb1ker%40yahoo.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Thu, November 3, 2011 3:59:26 PM
Subject: [DrakeRadio] Microphone Hookup Assistance Please

I just got my license and bought a Drake T4XC/R4C setup. It didn't come with a mic but I did find a Electro Voice 619 Hi Z in my storage bldg. I would like to use it but I don't know how to hook it up. Can anyone help? I found a manual online but I don't understand how to make the connections to my right angle plug. The Plug has three terminals marked R S T. Can anyone help?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5969. RE: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 01:50:21 UTC
From: William Garrett
Topic: 5964 Message: 5969

Wow! Thanks everyone! This will take a little time to digest but just what I was looking for. I want to know not only the "how" but the "why" so I can figure it out on my own next time.
73
William
WB1KER
501-291-3184

--- On Thu, 11/3/11, Jim Chaggaris <jimc@...> wrote:

From: Jim Chaggaris <jimc@...>
Subject: RE: [DrakeRadio] Microphone Hookup Assistance Please
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 3, 2011, 6:21 PM

Bill,

TRS=Tip Ring Sleeve

Tip=PTT

Ring = Mic

Sleeve = Shield

Best Regards,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Avenue

Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Fax: 630-443-6505

Cell: 630-669-2241

website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of William Houghton
Sent: Thursday, November 03, 2011 8:02 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Microphone Hookup Assistance Please

Thise are the terminal names on the original Switchcraft connector. I'm guessing they mean "ring, tip, and sleeve". Tip is obvious. I suspect that ring is the middle ring, tip is the end tip, and sleeve is the body of the connector. Just my guesses.

Another way to look at it. The mounting nut of the phone jack is ground. One of the wires is the audio input. The other wire, when connected to the ground keys the transmitter. Shorting the mic input to ground won't hurt anything. A LOT of mics do this already when the mic isn't keyed (you have to undo this in the mic to use VOX). Its pretty easy then to figure out which terminal is audio and which is key.

73,

Bill

From: wb1ker <wb1ker@... <mailto:wb1ker%40yahoo.com> >
To: DrakeRadio@yahoogroups.com <mailto:DrakeRadio%40yahoogroups.com>
Sent: Thu, November 3, 2011 3:59:26 PM
Subject: [DrakeRadio] Microphone Hookup Assistance Please

I just got my license and bought a Drake T4XC/R4C setup. It didn't come with a mic but I did find a Electro Voice 619 Hi Z in my storage bldg. I would like to use it but I don't know how to hook it up. Can anyone help? I found a manual online but I don't understand how to make the connections to my right angle plug. The Plug has three terminals marked R S T. Can anyone help?

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5970. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 02:15:06 UTC
From: Don Cunningham
Topic: 5964 Message: 5970

William,
You will find this to be a very helpful group. Please ask questions as you go, that's what makes the reflector go.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5971. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-04 18:41:06 UTC
From: Richard Knoppow
Topic: 5964 Message: 5971

----- Original Message -----
From: "William Garrett" <wb1ker@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Thursday, November 03, 2011 6:50 PM
Subject: RE: [DrakeRadio] Microphone Hookup Assistance
Please

Wow! Thanks everyone! This will take a little time to digest
but just what I was looking for. I want to know not only the
"how" but the "why" so I can figure it out on my own next
time.
73
William
WB1KER
501-291-3184

If you don't have the instruction books I strongly
suggest getting them before trying to put the transmitter on
the air. One excellent source is the CD offered by list
memeber Garey Barrell. He has not only high rez handbooks
but additional material such as chassis photos which you
will not find elsewhere. www.k4oah.com

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5972. Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 03:49:29 UTC
From: facsmart
Topic: 5972 Message: 5972

Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.

73's Ted KI6WIK

5973. Re: [DrakeRadio] Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 07:07:53 UTC
From: Paul Pollock
Topic: 5972 Message: 5973

HI Ted KI6WIK,

Assuming that everything else is working, you might check the simple stuff.

There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.

Just a thought.

-Paul Pollock
KD7BWB

On Nov 8, 2011, at 8:49 PM, facsmart wrote:

> Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.
>
> 73's Ted KI6WIK
>
>

[Non-text portions of this message have been removed]

5974. Re: [DrakeRadio] Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 07:43:49 UTC
From: Ted Peckler
Topic: 5972 Message: 5974

I replaced some weak tubes so I have some meter movement now, I checked that adjustment first. On calibration s meter is at 40db.

--- On Tue, 11/8/11, Paul Pollock <kd7bwb@...> wrote:

From: Paul Pollock <kd7bwb@gmail.com>
Subject: Re: [DrakeRadio] Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Tuesday, November 8, 2011, 11:07 PM

HI Ted KI6WIK,

Assuming that everything else is working, you might check the simple stuff.

There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.

Just a thought.

-Paul Pollock
  KD7BWB

On Nov 8, 2011, at 8:49 PM, facsmart wrote:

> Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.
>
> 73's Ted KI6WIK
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

5975. Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 12:18:26 UTC
From: Ed WA4NJY
Topic: 5975 Message: 5975

I am using a TR-7 on AM with good results. I know it transmits carrier and one sideband.

My best transmit audio reports come when mic gain is set for minimal meter upward movement. Same with the scope pattern. If voice peaks approach twice carrier level,
then audio becomes muffled.

Example: Carrier set to 25 watts. Voice peaks at about 40 watts make good audio. Is not that
adding only 15 watts to the sideband? My power supply voltage stays solid.

What am I not understanding here?

Thanks,
Ed Purvis WA4NJY
Bradenton, Fl

5976. Re: [DrakeRadio] Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 19:35:27 UTC
From: Don Cunningham
Topic: 5972 Message: 5976

Ted,
Check two other simple things, the bulb that protects the receiver front end for continuity and it's socket for corrosion. Then the "infamous" RCVR/TCVR switch. I ALWAYS have to check mine after rummaging around behind it to hook up an antenna, etc. One of these days, I'll get around to building the defeats posted everywhere to stop that, but who knows when???
73 and enjoy your TR4 when you get it going,
Don, WB5HAK

[Non-text portions of this message have been removed]

5977. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 22:25:49 UTC
From: Paul Pollock
Topic: 5975 Message: 5977

To Ed WA4NJY,

None of the Drakes have a Mic AGC stage (as far as I've read <grin>). This creates a situation that causes confusion, especially as regards the TR-7s' great SSB transmit quality.

On SSB, the ALC (at the transmitter) limits the sideband output,and therefore maintains good signal quality.

But on AM, the ALC has no usefulness, and most modern SSB radios that have AM, shut the ALC off in that mode. But I suspect the ALC is left on, in AM, in the TR-7, which is actually not a good thing, because the loudest signal in AM is the Carrier. Attenuating the carrier, will tend to create a situation where the modulated sidebands will now get out of balance with the carrier (it's a timing effect), which causes the audio to go into Distortion (the muffled audio you are getting comments on). See the graph below:

```
I
I
I
I I I
I I I
I I I
-----------------
-1 0 1
```

The above is an accurate representation (assuming your email client is running in fixed width font) of a properly calibrated AM signal, with the sidebands. Each sideband is only half the strength of the carrier, when calibrated properly. When either sideband is louder than that, distortion occurs.

Radios that ONLY run AM, put the AGC in the Mic gain stage, so that the audio cannot produce a problem with the carrier. In true carrier AM transmitters, the ALC either is shut off, or does not exist. In low-level modulated radios, the carrier and sidebands are produced in a composite signal generator, then sent to the amplifier.

Most folks that operate a lot of AM in the Ham bands, also operate an oscilloscope to monitor the modulated carrier, and some even have a narrow frame band-scope to see the carrier and sidebands and their relationship; in order to ensure that the signal will not be distorted at the other fellows' receiver <grin>.

In any event, all this discussion is based on the assumption that your TR-7 is running correctly. I hope so. The end of this rather lengthy discussion (I apologize) is that AM mode produces a very complex signal. Ordinary PEP math cannot work correctly on it, unless we use the math to analyze each component separately, and then create a composite answer.

So, to answer your question. Assuming proper operation of your TR-7, AM operators must insure that the carrier output is half the RMS capacity of the radio. And then he must

ensure that there is some kind of Mic AGC (with hard limiting, a standard compressor won't work very well) to limit audio signal from exceeding desired signal quality levels.

Hopefully I've not lost you, and even better if you know this stuff already. Tell me to shut up, if this stuff is not helpful <grin>!

Have fun and good luck!

-Paul Pollock
KD7BWB

On Nov 9, 2011, at 5:18 AM, Ed WA4NJY wrote:

>
> I am using a TR-7 on AM with good results. I know it transmits carrier and one sideband.
>
> My best transmit audio reports come when mic gain is set for minimal meter upward movement. Same with the scope pattern. If voice peaks approach twice carrier level,
> then audio becomes muffled.
>
> Example: Carrier set to 25 watts. Voice peaks at about 40 watts make good audio. Is not that
> adding only 15 watts to the sideband? My power supply voltage stays solid.
>
> What am I not understanding here?
>
> Thanks,
> Ed Purvis WA4NJY
> Bradenton, Fl
>
>

[Non-text portions of this message have been removed]

5978. Drake TR4c For Sale

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 22:54:45 UTC
From: ChristmasPeter
Topic: 5978 Message: 5978

Selling my Drake TR4C ...$350.00 + ship...Nice shape...
Cheers
Doc

5979. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 23:16:24 UTC
From: Richard Knoppow
Topic: 5975 Message: 5979

----- Original Message -----
From: "Ed WA4NJY" <wa4njy@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 09, 2011 4:18 AM
Subject: [DrakeRadio] Drake TR-7 on AM question.

>
> I am using a TR-7 on AM with good results. I know it
> transmits carrier and one sideband.
>
> My best transmit audio reports come when mic gain is set
> for minimal meter upward movement. Same with the scope
> pattern. If voice peaks approach twice carrier level,
> then audio becomes muffled.
>
> Example: Carrier set to 25 watts. Voice peaks at about
> 40 watts make good audio. Is not that
> adding only 15 watts to the sideband? My power supply
> voltage stays solid.
>
> What am I not understanding here?
>
> Thanks,
> Ed Purvis WA4NJY
> Bradenton, Fl
>
The TR-4 uses controlled carrier AM. Essentially, the
carrier is nearly 100% modulated all the time but increases
with increasing audio level. This is a type of signal that
can be handled by a linear amplifier which is limited in its
steady-state power handling capability, something which is
typical of linears in SSB equipment. As a result of this
modulation method the readings on a normal power indicator
will be lower than the actual peak power. When you measure
the power you are still measuring both carrier and sideband
but since the carrier power is varying with the audio the
results are not what one would expect from normal AM. The
carrier level is set for no modulation and has no
significance when modulation is applied. Also, there is no
automatic gain control in AM as there is in SSB so audio
levels are rather critical. That also means that the peak to
average ratio in speech is preserved where the AGC or ALC in
an SSB transmitter reduces it resulting in higher average
modulation than one gets with unprocessed speech. The ratio
is pretty high, at least 10db, so _average_ levels of AM

will be quite low.
My guess is that your TX is working normally.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5980. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-09 23:20:11 UTC
From: Richard Knoppow
Topic: 5975 Message: 5980

----- Original Message -----
From: "Richard Knoppow" <1oldlens1@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 09, 2011 3:16 PM
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

>
> ----- Original Message -----
> From: "Ed WA4NJY" <wa4njy@...>
> To: <DrakeRadio@yahoogroups.com>
> Sent: Wednesday, November 09, 2011 4:18 AM
> Subject: [DrakeRadio] Drake TR-7 on AM question.
>
>
>>
>> I am using a TR-7 on AM with good results. I know it
>> transmits carrier and one sideband.

Disregard my last post, I read the model as TR-4 not
TR-7 so my comments may not apply. If the TR-7 does use
controlled carrier AM then the general remarks about
measuring power do apply. I don't know if the TR-7 includes
any compression or other AGC control for AM.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5981. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 00:54:00 UTC
From: Jim Shorney
Topic: 5975 Message: 5981

On Wed, 9 Nov 2011 15:20:11 -0800, Richard Knoppow wrote:

> I don't know if the TR-7 includes
>any compression or other AGC control for AM.

SSB ALC is active, IIRC, but there is no compression or carrier control.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5982. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 01:00:09 UTC
From: Jim Shorney
Topic: 5975 Message: 5982

On Wed, 9 Nov 2011 15:25:49 -0700, Paul Pollock wrote:

>But I suspect the ALC is left on, in AM, in the TR-7, which is actually not a good thing, because the loudest signal in AM is the Carrier.

Actually, it is a good thing. The ALC is peak-limiting, as opposed to the compression style (bad) ALC used in a lot of newer rigs. It has little effect on the carrier output, so long as you keep the mic gain within proper operating parameters; i.e., adjust the audio so the ALC LED only flickers occasionally on speech peaks. I think the ratio is something like 3:1 PEP to carrier for proper operation, but I would have to check on that. Note your maximum PEP ouput (which should be about the same as the maximum CW output) and adjust carrier accordingly. Or use a scope, as suggested. Or follow the setup instructions in the manual. An average reading wattmeter will not be of much use under voice conditions, but is OK for measuring CW output.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5983. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 02:09:33 UTC
From: Ed Purvis
Topic: 5975 Message: 5983

Thanks to all who wrote via the group and private.
For now, I will be content with the ok signal reports.

Settings will be for minimal meter movement.
 Also the ALC light will flicker very slightly.

The scope has me puzzled. I don't expect to go with the 4:1 ratio of
 a plate modulated rig. Example: 25 watts carrier and 100 watts on peaks.
 Can not put that much power into one sideband.

My scope shows 25 watts carrier and voice peaks at about 40 watts.
 Again, this gives best on air results.

May go with the mod by Jeff Covelli to make it DSB with carrier.

thanks again,
Ed

 A government that can tax Peter to pay Paul, can always depend on Paul's support.

From: Jim Shorney <jshorney@...>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 9, 2011 8:00 PM
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

On Wed, 9 Nov 2011 15:25:49 -0700, Paul Pollock wrote:

>But I suspect the ALC is left on, in AM, in the TR-7, which is actually not a good thing,
because the loudest signal in AM is the Carrier.

Actually, it is a good thing. The ALC is peak-limiting, as opposed to the
compression style (bad) ALC used in a lot of newer rigs. It has little effect
on the carrier output, so long as you keep the mic gain within proper operating
parameters; i.e., adjust the audio so the ALC LED only flickers occasionally on
speech peaks. I think the ratio is something like 3:1 PEP to carrier for proper
operation, but I would have to check on that. Note your maximum PEP ouput
(which should be about the same as the maximum CW output) and adjust carrier
accordingly. Or use a scope, as suggested. Or follow the setup instructions in
the manual. An average reading wattmeter will not be of much use under voice
conditions, but is OK for measuring CW output.

73

-Jim

--
Ham Radio NU0C

Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

5984. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 03:41:18 UTC
From: Richard Knoppow
Topic: 5975 Message: 5984

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 09, 2011 5:00 PM
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

> On Wed, 9 Nov 2011 15:25:49 -0700, Paul Pollock wrote:
>
>>But I suspect the ALC is left on, in AM, in the TR-7,
>>which is actually not a good thing, because the loudest
>>signal in AM is the Carrier.
>
>
> Actually, it is a good thing. The ALC is peak-limiting, as
> opposed to the
> compression style (bad) ALC used in a lot of newer rigs.
> It has little effect
> on the carrier output, so long as you keep the mic gain
> within proper operating
> parameters; i.e., adjust the audio so the ALC LED only
> flickers occasionally on
> speech peaks. I think the ratio is something like 3:1 PEP
> to carrier for proper
> operation, but I would have to check on that. Note your
> maximum PEP ouput
> (which should be about the same as the maximum CW output)
> and adjust carrier
> accordingly. Or use a scope, as suggested. Or follow the
> setup instructions in
> the manual. An average reading wattmeter will not be of
> much use under voice
> conditions, but is OK for measuring CW output.
>
> 73
>
> -Jim
>
I don't think conventional ALC would work for AM. Its
way of controlling the RF drive to the final. I think this
can be confusing because in SSB or DSB with carrier
suppression the envelope of the RF follows the envelope of
audio level exactly but this is not the case where a carrier
is present. A conventional ALC would, I think, have an odd
effect on a modulated carrier. Since ALC is trying to keep
the power constant it would see the increase caused by

modulation as an overall increase and reduce the gain thus causing the entire signal including carrier to be reduced as modulation increased. This is not the same as carrier controlled modulation. If the idea is to increase average modulation then the audio signal causing the modulation must be modified to reduced its peak to average ratio. This can be done with a compressor, peak limiter, or peak clipper, all of which would cause a reduction in the ratio in somewhat different ways. Perhaps the best is a combination of a linear compressor and peak limiter, the compressor tending to keep the limiting ratio constant. Some of the devices used to achieve this in broadcasting are very elaborate. The ALC in an SSB transmitter has a similiar effect but does it by keeping the RF drive more or less constant.

FWIW, the constants for conventional AM are:
Peak power at 100% to carrier power = 4:1
Average power at 100% modulation by a sine wave is 1.5X carrier.
Speech waves have a peak to average ratio of at least 10db so overall average modulation with any form of modulation is rather low, perhaps 30%, unless the speech is processed. Average for unprocessed music can be even lower.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

5985. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 05:15:46 UTC
From: Jim Shorney
Topic: 5975 Message: 5985

On Wed, 9 Nov 2011 19:41:18 -0800, Richard Knoppow wrote:

>I don't think conventional ALC would work for AM. Its
>way of controlling the RF drive to the final. I think this
>can be confusing because in SSB or DSB with carrier
>suppression the envelope of the RF follows the envelope of
>audio level exactly but this is not the case where a carrier
>is present. A conventional ALC would, I think, have an odd
>effect on a modulated carrier.

The point is, the TR-7 ALC is not "conventional" ALC in the way we have become used to it in the import rigs. It is threshold based and peak limiting, and so does absolutely nothing until you reach a peak level determined by the internal adjustments - generally 140-150 watts on the low bands for a proplerly adjusted TR-7. This is more like th grid-derived ALC of tube rigs than the contunually operating ALC of most transistor rigs. As such, it will have absolutely NO affect on the carrier if you keep the rig out of ALC entirely (ALC LED never flickers), and have a minimal affect if the radio is adjusted properly so that the ALC LED just flickers occasionally on voice peaks. This is where I find a good RF speech processor to be especially useful with the TR-7; whether operating SSB or AM, the clipping operation of the speech processor can be used to keep the radio operating just below the ALC point for the most linear opearation (lowest IMD). ALC action adds IMD, and the ALC action of many more recent rigs is the worst. See http://www.sm5bsz.com/dynrange/alc.htm

You can't think in the same terms with the TR-7 as with most other solid-state rigs. With other rigs, it's OK to have some considerable ALC action (on SSB) as long as you stay within the marks on the meter. As you described, this is not an ideal system for AM. With the TR-7, if that LED lights up, you are at your peak. Lighting it up more is bad. Not lighting it is no ALC action at all. The design of the system contributes to the stelllar audio reports that a well-kept TR-7 can solicit. So, for best AM, the ideal point would be to operate just below the ALC threshold. But an occasional flicker is probably OK.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

5986. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 05:19:08 UTC
From: Jim Shorney
Topic: 5975 Message: 5986

On Wed, 9 Nov 2011 18:09:33 -0800 (PST), Ed Purvis wrote:

>May go with the mod by Jeff Covelli to make it DSB with carrier.

Keep in mind that Jeff's (excellently concieved and written) mod does miss one important point: proper centering of the carrier in the AM filter. I wrote up an easy fix for this somewhere, probably in the Drakelist online forum, but I think it's largely been ingnored.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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5987. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 05:27:20 UTC
From: Jim Shorney
Topic: 5975 Message: 5987

On Wed, 9 Nov 2011 15:25:49 -0700, Paul Pollock wrote:

> the loudest signal in AM is the Carrier.

Thinking back on this comment, I think this is where some confusion is happening. If you look at the signal in the frequency domain, yes. WIth a conventional AM signal, the carrier has the highest amplitude. But ALC works in the time domain. You can think of it as being like the envelope detector in a peak reading wattmeter, or the image on an oscilloscope. The ALC works on the peak of the envelope, or PEP power, which is always higher than the unmodulated carrier (unless you are horribly overdriving the PA). Regardless of the number of sidebands.

-Jim (AM voice is Multiple Sideband...)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5988. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 06:52:36 UTC
From: Paul Pollock
Topic: 5975 Message: 5988

To Jim Shorney NU0C,

I'm not confused about this. The statement I made is correct. Even if we use your comment, nothing changes the end results. The end results of ALC on a AM signal is that because of the indirect effect in the time domain (the direct effect is the result of ALC sense doing a reaction, the timing is not planned, but is a result of the ALC's action), the carrier will be effected at a different point, than the sidebands, and can easily cause distortion of the audio in a receiver. This is often caused by the ALC having a timing constant that exceeds the timing duration by frequency of the entire signal envelope containing a sideband, a carrier, and another sideband. The carrier can be effected while the ALC completely skips over the sidebands, because of their smaller amplitude vs the much large amplitude of the carrier against the timing constant involved.

In some ways, this is the same timing effect that we see with a AM signal coming in from Skip, The phasing and distortion is caused by the carrier and sidebands being effected by the ionosphere at different timing constants, both because of the instantaneous effects of atmospheric waving, but also because of the effect of the Sidebands and Carrier hitting the ionosphere at literally different frequencies in time.

The arithmetic we are given by manufacturers (that is carrier should be 25% of PEP) is a bunch of baloney. If you look at the output of an AM signal in the time domain, you see a properly generated signal producing a carrier which contains 50% of all power emitted (not voltage). That means that a carrier AM signal with modulated peaks at 150-watts should contain a carrier at 75-watts. If the transmitter cannot produce a good signal with this arithmetic, then there is design problem in the transmitter or the power supply is not rated for at least 50% duty cycle over multiple sinewaves.
If we look at an audio oscilloscope trace of the same signal (assuming sufficient power supply) and we take for granted a properly modulated signal; if we drop the carrier, we don't get distortion, because the power supply is sufficient to produce a clean sinewave, but the result will be harmonics all over the RF domain; if we leave the carrier where it needs to be for PEP, and then increase the audio drive, we will flat-top the audio, this cause both harmonics AND audio distortion because now we ARE exceeding the power supply <grin>.

This isn't rocket science, it's just simple arithmetic. But it still means that if good voice quality is a concern, that a good voice limiter AGC is required, to maintain good saturation without exceeding the sideband relationship against the carrier.

Drake transceivers are mainly a SSB transceiver, and the AM-mode transmission facilities are pretty obviously not as well thought out. A TR-7 is a great radio, and hears quite well in all modes, but this does not necessarily translate to a all-mode transmitter as well.

Great comments Jim, it allows us both to vent some frustrations that we've been having over the years <grin>.

-Paul Pollock
KD7BWB

On Nov 9, 2011, at 10:27 PM, Jim Shorney wrote:

> On Wed, 9 Nov 2011 15:25:49 -0700, Paul Pollock wrote:
>
> > the loudest signal in AM is the Carrier.
>
> Thinking back on this comment, I think this is where some confusion is
> happening. If you look at the signal in the frequency domain, yes. WIth a
> conventional AM signal, the carrier has the highest amplitude. But ALC works in
> the time domain. You can think of it as being like the envelope detector in a
> peak reading wattmeter, or the image on an oscilloscope. The ALC works on the
> peak of the envelope, or PEP power, which is always higher than the unmodulated
> carrier (unless you are horribly overdriving the PA). Regardless of the number
> of sidebands.
>
> -Jim (AM voice is Multiple Sideband...)
>
> --
> Ham Radio NU0C
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>
>

[Non-text portions of this message have been removed]

5989. Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 17:18:02 UTC
From: facsmart
Topic: 5972 Message: 5989

Thanks for the info, I checked the switch 1st, my question is the bulb in the PA cage, should it light up or its just a fuse? And how do you get to it?

--- In DrakeRadio@yahoogroups.com, Paul Pollock <kd7bwb@...> wrote:
>
> HI Ted KI6WIK,
>
> Assuming that everything else is working, you might check the simple stuff.
>
> There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.
>
> Just a thought.
>
> -Paul Pollock
> KD7BWB
>
> On Nov 8, 2011, at 8:49 PM, facsmart wrote:
>
> > Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.
> >
> > 73's Ted KI6WIK
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

5990. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 18:29:23 UTC
From: Don Cunningham
Topic: 5972 Message: 5990

The bulb will not light up, but should have continuity through it. You may be able to access the socket from the under side of the chassis for an ohmeter check. I think, and it's been a LONG time since I've been in a TR4, mine is the TR4C, that the whole PA cage will have to come off to get to it. Some of the series has the bulb under the chassis, which is MUCH easier.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

5991. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 18:41:10 UTC
From: Ted Peckler
Topic: 5972 Message: 5991

I checked it 2.3 ohms

--- On Thu, 11/10/11, Don Cunningham <donc@martineer.net> wrote:

From: Don Cunningham <donc@...>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 10, 2011, 10:29 AM

The bulb will not light up, but should have continuity through it. You may be able to access the socket from the under side of the chassis for an ohmeter check. I think, and it's been a LONG time since I've been in a TR4, mine is the TR4C, that the whole PA cage will have to come off to get to it. Some of the series has the bulb under the chassis, which is MUCH easier.

73,

Don, WB5HAK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5992. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 18:47:22 UTC
From: Don Cunningham
Topic: 5972 Message: 5992

That sounds like a good filament to me. I wouldn't go to the trouble to check it any further.
73,
Don

[Non-text portions of this message have been removed]

5993. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 18:53:26 UTC
From: William Houghton
Topic: 5972 Message: 5993

You didn't mention whether you could receive signals and that they sounded strong, etc. On one of mine the receive signals were very weak when I first got the rig. I had to clean the contacts of the T/R relay before I could hear anything.

Bill

From: Ted Peckler <facsmart@...>
To: DrakeRadio@yahoogroups.com
Sent: Thu, November 10, 2011 10:41:10 AM
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

I checked it 2.3 ohms

--- On Thu, 11/10/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@martineer.net>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 10, 2011, 10:29 AM

The bulb will not light up, but should have continuity through it. You may be able to access the socket from the under side of the chassis for an ohmeter check. I think, and it's been a LONG time since I've been in a TR4, mine is the TR4C, that the whole PA cage will have to come off to get to it. Some of the series has the bulb under the chassis, which is MUCH easier.

73,

Don, WB5HAK

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[Non-text portions of this message have been removed]

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5994. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 20:12:34 UTC
From: Ted Peckler
Topic: 5972 Message: 5994

Thought I said I could receive signal, just little to no s meter movement, I do get movement on calibration.

--- On Thu, 11/10/11, William Houghton <rdrbill@...> wrote:

From: William Houghton <rdrbill@...>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 10, 2011, 10:53 AM

You didn't mention whether you could receive signals and that they sounded

strong, etc. On one of mine the receive signals were very weak when I first got

the rig. I had to clean the contacts of the T/R relay before I could hear

anything.

Bill

_____

From: Ted Peckler <facsmart@yahoo.com>

To: DrakeRadio@yahoogroups.com

Sent: Thu, November 10, 2011 10:41:10 AM

Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

I checked it 2.3 ohms

--- On Thu, 11/10/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@...>

Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

To: DrakeRadio@yahoogroups.com

Date: Thursday, November 10, 2011, 10:29 AM

The bulb will not light up, but should have continuity through it. You may be

able to access the socket from the under side of the chassis for an ohmeter

check. I think, and it's been a LONG time since I've been in a TR4, mine is the

TR4C, that the whole PA cage will have to come off to get to it. Some of the

series has the bulb under the chassis, which is MUCH easier.

73,

Don, WB5HAK

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

5995. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-10 22:44:26 UTC
From: Jim Shorney
Topic: 5975 Message: 5995

On Wed, 9 Nov 2011 23:52:36 -0700, Paul Pollock wrote:

>I'm not confused about this. The statement I made is correct. Even if we use your comment, nothing changes the end results. The end results of ALC on a AM signal is that because of the indirect effect in the time domain (the direct effect is the result of ALC sense doing a reaction, the timing is not planned, but is a result of the ALC's action), the carrier will be effected at a different point, than the sidebands, and can easily cause distortion of the audio in a receiver. This is often caused by the ALC having a timing constant that exceeds the timing duration by frequency of the entire signal envelope containing a sideband, a carrier, and another sideband. The carrier can be effected while the ALC completely skips over the sidebands, because of their smaller amplitude vs the much large amplitude of the carrier against the timing constant involved.

True, because the ALC in the TR-7 is a simple AM detector that responds to the envelope of the signal. When the peak of the envelope exceeds the preset threshold, the ALC circuit generates a control voltage that operates a PIN diode attenueator in the transmit RF path. Until this happens, the transmitter is operating entirely linear. The pin diode attenuator reduces the gain of the circuit in order to keep the peak output within the established limit. This has the effect of reducing the carrier, because it is at a lower level than the maximum PEP output. It was my belief that a properly adjsuted TR-7, with the ALC light just flickering occasionally on voice peaks, will have a *MINIMAL* affect on the carrier. A golden ear with a good receiver might hear the occasional distortion products. Keep the radio out of ALC entirely, and there will be no effect.

>The arithmetic we are given by manufacturers (that is carrier should be 25% of PEP) is a bunch of baloney. If you look at the output of an AM signal in the time domain, you see a properly generated signal producing a carrier which contains 50% of all power emitted (not voltage). That means that a carrier AM signal with modulated peaks at 150-watts should contain a carrier at 75-watts. If the transmitter cannot produce a good signal with this arithmetic, then there is design problem in the transmitter or the power supply is not rated for at least 50% duty cycle over multiple sinewaves.

Again, true if you look at it a certian way. But you can't change the math. If the peak voltage of the envelope at 100% modulation (PEP) is twice the voltage of the carrier, the total power in the composite waveform is greater by a factor of 4. A 100 Watt PEP AM signal will have 25 watts of carrier. Or to look at it another way, that's why SSB CB rigs can operate at 4 Watts AM carrier, or 16 Watts PEP SSB - it's the same power level! You can work out the math, E^2/R doesn't lie. At least, that's the way it works with any scope pictures/diagrams I've ever seen.

> If we look at an audio oscilloscope trace of the same signal (assuming sufficient power supply) and we take for granted a properly modulated signal; if we drop the carrier, we don't get distortion, because the power supply is sufficient to produce a clean sinewave,

but the result will be harmonics all over the RF domain; if we leave the carrier where it needs to be for PEP, and then increase the audio drive, we will flat-top the audio, this cause both harmonics AND audio distortion because now we ARE exceeding the power supply <grin>.

True. That's IMD. THe web page I referred to previously demonstrates how improperly implemented ALC causes increased IMD in SSB transmitters.

>Drake transceivers are mainly a SSB transceiver, and the AM-mode transmission facilities are pretty obviously not as well thought out. A TR-7 is a great radio, and hears quite well in all modes, but this does not necessarily translate to a all-mode transmitter as well.

I think the TR-7 did it better than a lot of other solid-state radios. For one, they didn't try to generate the carrier by unbalancing the balanced modulator.

>Great comments Jim, it allows us both to vent some frustrations that we've been having over the years <grin>.

Likewise. :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

5996. Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 13:42:25 UTC
From: fred
Topic: 5972 Message: 5996

the lamp is a fuse . not sure what it is supposed to protect against . I have seen the one in the my TR3 light up the time I took it to field day . the TR3 would not receive when I got it . had to remove the lamp and clean it's pins and socket .
good luck with it . when you get all the bugs out you will enjoy it .

kd5pnt

--- In DrakeRadio@yahoogroups.com, "facsmart" <facsmart@...> wrote:
>
>
> Thanks for the info, I checked the switch 1st, my question is the bulb in the PA cage, should it light up or its just a fuse? And how do you get to it?
>
>
> --- In DrakeRadio@yahoogroups.com, Paul Pollock <kd7bwb@> wrote:
> >
> > HI Ted KI6WIK,
> >
> > Assuming that everything else is working, you might check the simple stuff.
> >
> > There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.
> >
> > Just a thought.
> >
> > -Paul Pollock
> > KD7BWB
> >
> > On Nov 8, 2011, at 8:49 PM, facsmart wrote:
> >
> > > Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.
> > >
> > > 73's Ted KI6WIK
> > >
> > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

5997. AC3 goes BANG

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 13:46:56 UTC
From: ko1h
Topic: 5997 Message: 5997

HI all, Well late last night I decided to put my r4/t4 back on the air after about 6 months. Well Hooked everything up wired up a new Sure444d and turned on the power to the r4 and the t4 and went about finding the right antenna swtiching(too many radio's etc) well as I was swtiching listening for a noise increase. and ....

Bang bang bang and the blue smoke started comming out of one of the paper caps in the ac3. Well other than this not so news worthy event. The reason for my post...

Does anyone have the inclination to to do a Heathkit shop upgrade on this PS for me?

Yes I agree I should be able to do this myself but atm time and other projects are those in demand.

I am willing to pick up the premade pc board and if someone wants to either walk me through it or have a go at it. I'll be glad to hand deliver in New England or ship if necessary

thanks in advance

de John ko1h

[Non-text portions of this message have been removed]

5998. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 15:24:02 UTC
From: Garey Barrell
Topic: 5972 Message: 5998

The bulb in the TR-3/TR-4 series transceivers is not a fuse. It is a 'negative temperature coefficient resistor', which is a fancy name for a resistor that goes UP in value when heated by
current through it.

Remember that these units were designed for mobile use. This means you could pull up next to an 18
wheeler with a kw on CB with his antenna six feet from yours! Or even another ham running a few
hundred watts. This much power can severely damage input coils, etc., if not current limited.

Obviously Field Day is another situation where the bulb might be important, with other transmitters
very nearby.

Since the 'normal' current through the bulb lead / socket interface is so tiny, it doesn't take much
corrosion to severely limit the signal strength to the receiver. This bulb is the 'second' most
common culprit in 'I hear signals, but the S-Meter barely moves' cases. The TR- receivers have over
100 dB of gain, so a very small signal (0.5 microvolt) can be 'heard', but it's not gonna move the
meter!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

fred wrote:
> the lamp is a fuse . not sure what it is supposed to protect against . I have seen the one in the my TR3 light up the time I took it to field day . the TR3 would not receive when I got it . had to remove the lamp and clean it's pins and socket .
> good luck with it . when you get all the bugs out you will enjoy it .
>
> kd5pnt
>
> --- In DrakeRadio@yahoogroups.com, "facsmart"<facsmart@...> wrote:
>>
>> Thanks for the info, I checked the switch 1st, my question is the bulb in the PA cage, should it light up or its just a fuse? And how do you get to it?
>>

>>
>> --- In DrakeRadio@yahoogroups.com, Paul Pollock<kd7bwb@> wrote:
>>> HI Ted KI6WIK,
>>>
>>> Assuming that everything else is working, you might check the simple stuff.
>>>
>>> There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.
>>>
>>> Just a thought.
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>>> -Paul Pollock
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>>> On Nov 8, 2011, at 8:49 PM, facsmart wrote:
>>>
>>>> Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.
>>>>
>>>> 73's Ted KI6WIK
>>>>

5999. TR7 Troubles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 19:38:52 UTC
From: Paul Horvitz
Topic: 5999 Message: 5999

Hello all,
Any ideas or suggestions would be welcome with this:

---With the translator board plugged in,
pin 11 on regulator chassis pins reads grounded (+5vdc regulated)
pin 10 on regulator chassis pins reads grounded (+10vdc regulated)

Q2101 (2n5986) for the 10vdc out on regulator board gets very hot in a couple seconds...way too hot. Can smell it's hot, also with finger on it is too hot to touch in 5 seconds.

---With translator board out of the rig,
pin 11 on regulator chassis pins reads 180k to ground
pin 10 on regulator chassis pins reads 80 ohms to ground (reading swings as electrolytic to gnd. settles down till the reading reaches and stays at 80 ohms)

Q2101 is nice and cool, 5v reg OK, 10v reg OK...measured them.

The 5v reg and 10v reg go from pins 13 (5v) and 14 (10v) on translator board, through motherboard to those pins 11 and 10 on regulator but when I measure resistance to ground on them at the translator board socket header I get readings of 3.1k on pin 13 (the 5v) and 5.1k on pin 14 (the 10v). Not shorted to ground.

I've traced this out three times, two different days each so am fairly certain I've got a lock on the 5v reg and 10v reg flow/connections.

How come those pins on regulator board go to ground potential with translator plugged in yet not shorted to ground on translator its self? Doesn't make any sense to me.

I've tested all parts except for the 4 I.C.'s on translator, started with those notorious tantalum caps, but all is OK. Note that the 4 MBD101's were tested in circuit but I got .202 volts dropped across their junctions, except for where that toroidal coil is across 2 sides so they seem OK.

Where am I going wrong or not thinking straight with this?
Am thinking about buying another translator to try substitution.

Tnx,
Paul
WA6IAF

6000. Re: [DrakeRadio] TR7 Troubles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 20:16:02 UTC
From: Garey Barrell
Topic: 5999 Message: 6000

Paul -

We have others on here who are more familiar with the 7 than I am, but it looks to me like the short
is on the +10V Reg line. A ground on this line would also kill the +5 Reg. +10 V Reg goes to the
Collectors of Q603 and Q604, so that is the suspicious area. Possibly a shorted transistor, possibly C620, C621, C635, or ...

When checking resistance, don't forget to reverse the ohmmeter leads just in case there is a diode
junction somewhere!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

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> pin 11 on regulator chassis pins reads grounded (+5vdc regulated)
> pin 10 on regulator chassis pins reads grounded (+10vdc regulated)
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> Q2101 (2n5986) for the 10vdc out on regulator board gets very hot in a couple seconds...way too hot. Can smell it's hot, also with finger on it is too hot to touch in 5 seconds.
>
> ---With translator board out of the rig,
> pin 11 on regulator chassis pins reads 180k to ground
> pin 10 on regulator chassis pins reads 80 ohms to ground (reading swings as electrolytic to gnd. settles down till the reading reaches and stays at 80 ohms)
>
> Q2101 is nice and cool, 5v reg OK, 10v reg OK...measured them.
>
>
> The 5v reg and 10v reg go from pins 13 (5v) and 14 (10v) on translator board, through motherboard to those pins 11 and 10 on regulator but when I measure resistance to ground on them at the translator board socket header I get readings of 3.1k on pin 13 (the 5v) and 5.1k on pin 14 (the 10v). Not shorted to ground.
>
> I've traced this out three times, two different days each so am fairly certain I've got a

lock on the 5v reg and 10v reg flow/connections.
>
> How come those pins on regulator board go to ground potential with translator plugged in yet not shorted to ground on translator its self? Doesn't make any sense to me.
>
> I've tested all parts except for the 4 I.C.'s on translator, started with those notorious tantalum caps, but all is OK. Note that the 4 MBD101's were tested in circuit but I got .202 volts dropped across their junctions, except for where that toroidal coil is across 2 sides so they seem OK.
>
> Where am I going wrong or not thinking straight with this?
> Am thinking about buying another translator to try substitution.
>
> Tnx,
> Paul
> WA6IAF
>
>

6001. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-11 22:26:16 UTC
From: Paul Pollock
Topic: 5975 Message: 6001

Hi Jim NU0C,

Instead of making a hodgepodge, I'll try to address all of your comments in one go <grin>.

1). First, "keep the radio out of ALC entirely, and there will be no effect".
Quite right, but then there is no way on Earth of knowing your modulation percentage, or whether your splattering in harmonic energy. But the audio will be fairly listenable.

But, we are overlooking that normally the ALC begins its attack at a point significantly earlier than 100% PEP, in most solid state transmitters (makers don't like blown transmitters, and like to under-rate the devices by being conservative with their ALC). So where does that leave us if we DON'T crowd the ALC a bit?

Keep in mind, there is a FCC mandate for all transmitters (including HAM), that average modulation should be maintained at more than 50% in modern equipment (that's a laugh, the rule was written when tubes were still the norm <grin>). Because of this mandate, manufacturers started thinking a lot about compressors and mike AGC with hard limiting (I can't think of a single solid state CB radio that does-not have a mic AGC/compressor superior to just about anything in HAM radio for 6 times the price). Even Drake built the SP-75 to assist the TR-7 in this regard (anybody have $800 for an SP-75? Geez people have some interesting ideas on what stuff on EBay is worth).

2). "Again, true if you look at it a certain way. But you can't change the math."
Yea, actually I can. There is no way to ascertain the PEP envelope of an AM signal without breaking out each component of the signal, then summing the results. This is because a changing signal in the sidebands can be plugged into the formula normally (but separately), and the carrier output must be viewed as a PEP and the RMS simultaneously. This means that all the math is wrong because of bad assumptions in the real world.

Let me give an example in the real world. Don Dumont was a friend of my father. He was the chief engineer of KFI-Los Angeles, and help install the original C-Class plate transmitter (50KW) (they changed to a modern transmitter about 15-years ago). It consisted of a 25KW Carrier generator, and a 25KW audio modulator. No special math, no figuring what's going on here. It made 50KW, of clean AM signal. He pointed out to me, as a teen, that 50% of all power produced was in the carrier. To hell with the formulas, they are just plain wrong.

When I studied the math for myself, the relationship of PEP to RMS was .707 or 1.414 (depending on which conversion you were using), except for an exception that even the books of the times laid out. And that was that a continuous carrier PEP was equal to the RMS of that signal. The only reason PEP was invented is because engineers of the times needed to be able to plug numbers into formulas that equated a dynamically changing signal (the modulated waveforms). Before voice communications, PEP math didn't even exist. This changes the formulas modern math geeks use to something that needs to be assessed differently. Modulated AM signals cannot be plugged into the formula without changing the modern assumptions.

In other words, screw the math, it's a bald faced lie, and 50% of the PEP of a transmitter is in the carrier. There is NO exceptions to these assumptions. Throw out the math, and look at the signal waveforms; they don't represent voltage, they represent power.

This argument holds quite well, even if we look at the average CB radio. A properly built SSB CB radio can produce 6-watts fully modulated AM Carrier without distortion or IMD, while still producing 12-watts of PEP SSB. Actually, many of them can make more than 20-watts PEP, and the only reason they won't modulate AM past about 11-PEP is because the power supply needs beefing up and a stronger driver needs to be used (manufacturers hobbled the radios. Remember, the FCC type certifies all CB radios. If they are built to HAM standards as regards the transmitter, they get rejected). I've aligned many SSB CB radios in my time, and that is the true arithmetic. The rules are made by the FCC, to continue a fomented lie, written 50-years ago.

This conversation even extends to people wanted to go legal-limit for Modulated carrier AM. The carrier number is not 375-watts. It's 750-watts.

Look, you can even prove this out on a power supply power metering system (you can even check on a power oscilloscope if you wish). A properly calibrated power gage will read approximately half, on a modern radio, of what it should; because the assumptions designed into the radio for carrier-AM are wrong. If the same radio can make 100-watts in FM, and consume 300-watts to make it, how come the same radio is consuming less than 200 watts on a fully modulated AM signal? If we inject a 1-Khz tone at the mike jack, and modulate fully, a properly designed 100-watt output radio should produce 100-watts PEP, and it doesn't. The assumptions are wrong, which causes the math to be erroneous.

There are no side issues here, no man behind the curtain, no extra math assumptions to deter the basic conclussion. In short, there is nowhere for the FCC (for example) to run. They are either lying or they are ignorant; no third choice. And they used this lie (or ineptitude) to write a rule, that gets enforced as a Federal Law.

3). "I think the TR-7 did it better than a lot of other solid-state radios. For one, they didn't try to generate the carrier by unbalancing the balanced modulator."

Unbalancing the balanced modulator is a technique used in the TR-4 (at least that's what my manual says). Unbalancing a modulator is a lousy way to do things, but only if we are NOT restricting the conversation to why the makers did that. It was done very early on (as Drake did), to create a sideband radio that could pass as a AM radio with one(1) sideband. It is a very simple means of doing a "me too" <grin>.
However, the TR-4 generates a carrier-AM signal with one advantage over modern gear. TR-4 uses controlled carrier, to produce AM. This means that everything responds as a modulated wave, and has a stronger sound than low-level modulated AM. This also means that an amplifier designed only for SSB service will not overheat producing a continuous carrier as happens with SSB amps (virtually everything available today) driven by a modern continuous steady carrier AM signal. Carrier transmitting devices need to be built much more ruggedly, because there is no instantaneous moment relaxation available for cooling (which modern SSB amplifiers rely on). Unless... they are driven by a controlled carrier transmitter (SSB can be lumped into that label).

Very few solid state radios used unbalancing to produce AM. Almost all of them, produce real Carrier-double-sideband AM. In all newer radios, the composite signal is made in a composite signal mixer-generator, and then piped to the transmitter stage (we call this low-level modulated). Really, really new ones produce AM, SSB, FM, in the DSP <grin>.

Modern equipment bypasses the balanced modulator altogether. This means that all modern equipment, from about the mid-80's or so, did different transmitting modes, with different methods for each mode (just as they do for receiving).

Again, this was fun; thanks for the time Jim.

-Paul Pollock
KD7BWB

[Non-text portions of this message have been removed]

6002. Re: TR7 Troubles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 00:17:53 UTC
From: qrpcwop
Topic: 5999 Message: 6002

Paul

It may help to open up the supply lines on the translator board to narrow down the problem. Try lifting one leg of RFC 601, 602, and 603, one at a time, to see if the problem goes away.

Another thought is the possibility of conductive debris beneath the header on the main board, which causes a short when the translator board is pressed into place.

Al, K2ZN

6003. Re: [DrakeRadio] AC3 goes BANG

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 00:45:29 UTC
From: bobsalmon@juno.com
Topic: 5997 Message: 6003

Yes, that same thing happened to me too. The AC3 bias voltage went crazy because of an old paper cap went south. Which also sent the finals to meltdown because of the absent bias voltage. The Heathkit shop board/fix is great. It's easily worth it. Good luck and check those finals. Oh, also look at the resistors underneath the finals.

Bob N3JQD

_____
57 Year Old Mom Looks 27
Mom Reveals $3 Wrinkle Trick Angering Doctors...
http://thirdpartyoffers.juno.com/TGL3141/4ebdc20dca8c613901ccst04vuc

6004. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 01:55:41 UTC
From: Ted Peckler
Topic: 5972 Message: 6004

Just curious, a lamp as a fuse, just sounded odd. I did check it and was found to be good.

--- On Fri, 11/11/11, fred <radiomanl@...> wrote:

From: fred <radiomanl@...>
Subject: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Friday, November 11, 2011, 5:42 AM

the lamp is a fuse . not sure what it is supposed to protect against . I have seen the one in the my TR3 light up the time I took it to field day . the TR3 would not receive when I got it . had to remove the lamp and clean it's pins and socket .

good luck with it . when you get all the bugs out you will enjoy it .

kd5pnt

--- In DrakeRadio@yahoogroups.com, "facsmart" <facsmart@...> wrote:

>

>

> Thanks for the info, I checked the switch 1st, my question is the bulb in the PA cage, should it light up or its just a fuse? And how do you get to it?

>

>

> --- In DrakeRadio@yahoogroups.com, Paul Pollock <kd7bwb@> wrote:

> >

> > HI Ted KI6WIK,

> >

> > Assuming that everything else is working, you might check the simple stuff.

> >

> > There is an S-Meter set control on the right-side of the radio. If it is set all the way to an extreme, it can peg the meter minus, to the extent that no signal will be strong enough to make the needle move to the right. Check that with no signal, the meter sets at the left most line on the scale (S-1). Then see what happens with a good signal.

> >

> > Just a thought.

> >

> > -Paul Pollock

> > KD7BWB

> >

> > On Nov 8, 2011, at 8:49 PM, facsmart wrote:

> >

> > > Greetings to every one, I just purchased a used, but very clean TR-4 MS-4 speaker and AC3 PS (the PS has the new upgraded board from the heathkit shop), but the S meter does not move on receive. Any suggestions, I have the manual.

> > >

> > > 73's Ted KI6WIK

> > >

> > >

> >

> >

> >

> > [Non-text portions of this message have been removed]

> >

>

[Non-text portions of this message have been removed]

6005. Re: [DrakeRadio] AC3 goes BANG

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:05:10 UTC
From: Don Cunningham
Topic: 5997 Message: 6005

John,
Contact Mike at the Heathkit Shop, he will do the rebuild for you. He charges, as he must to make a go of it, but will do a great job and you will be in business. However, he can't follow it home to make sure it didn't do some damage in the process, as others have reported!!!!
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6006. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:14:19 UTC
From: Don Cunningham
Topic: 5972 Message: 6006

Ted,
Just remember, as Garey said, only a miniscule amount of corrosion on the pins of the #12 lamp or the socket WILL attenuate the receive signal greatly. Same on the receive contacts of the T/R relay. Careful use of DeOxit will cure a lot of ills in those areas.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6007. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:17:40 UTC
From: Ted Peckler
Topic: 5972 Message: 6007

Ok, will try a replacement bulb. I cleaned the band switch and the S meter started getting movement, the relay was shinny like new, so I didn't touch it.

--- On Fri, 11/11/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@...>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Friday, November 11, 2011, 6:14 PM

Ted,

Just remember, as Garey said, only a miniscule amount of corrosion on the pins of the #12 lamp or the socket WILL attenuate the receive signal greatly. Same on the receive contacts of the T/R relay. Careful use of DeOxit will cure a lot of ills in those areas.

73,

Don, WB5HAK

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[Non-text portions of this message have been removed]

6008. Re: [DrakeRadio] TR7 Troubles

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:19:08 UTC
From: Jim Shorney
Topic: 5999 Message: 6008

On Fri, 11 Nov 2011 19:38:52 -0000, Paul Horvitz wrote:

>Hello all,
>Any ideas or suggestions would be welcome with this:
>
>---With the translator board plugged in,
>pin 11 on regulator chassis pins reads grounded (+5vdc regulated)
>pin 10 on regulator chassis pins reads grounded (+10vdc regulated)

>How come those pins on regulator board go to ground potential with translator plugged in yet not shorted to ground on translator its self? Doesn't make any sense to me.

Visually inspect the placement of the components on the translator board near the Molex connectors. I've it happen that a component will be bent too closely to a connector, and the male pin from the parent board will pass through the female connector far enough to short to the component when plugged in.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6009. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:36:54 UTC
From: Jim Shorney
Topic: 5972 Message: 6009

On Fri, 11 Nov 2011 10:24:02 -0500, Garey Barrell wrote:

>The bulb in the TR-3/TR-4 series transceivers is not a fuse. It is a 'negative temperature
>coefficient resistor', which is a fancy name for a resistor that goes UP in value when heated by
>current through it.

I think that's postive temperature coefficient. Resistance increases as temperature increases. NTCs are whats in power supplies to limit inrush; resistance goes down as temperature goes up. Using a lamp as a protector is not unheard of, Bose had some problems with chronic tweeter destruction in the 301 bookshelf speakers in their early life. Not really a design fault of the speakers so much as people powering them from underpowered amps driven to clipping, causing the tweeters to burn out from too much harmonic energy. The "fix" was an automotive dome lamp bulb and socket sent out with each replacement tweeter, to be wired in series with the tweeter. It worked, we never saw one come back.

Then there's the "dim bulb" tester, a light bulb in series with an AC line cord, that comes in handy for bringing up old equipment under controlled conditions.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6010. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:48:58 UTC
From: Don Cunningham
Topic: 5972 Message: 6010

Ted,
I really didn't mean to replace the bulb, just clean the pins and the socket pins as well. Just a drop of DeOxit goes a LONG way, so don't overdo it. No sense changing a good bulb, they are getting hard to find. Also, just soak a side of a business card (or similar thickness cardboard) with DeOxit and drag it between the contacts. Nothing fancy, just will improve even a "shiny new" looking one.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6011. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:56:52 UTC
From: Don Cunningham
Topic: 5972 Message: 6011

Ted,
I'm trying to do too many things at once, as usual. The "business card" trick was for the T/R relay, NOT the #12 lamp, of course. If it's a sealed relay and is actually a new stock one, maybe not necessary. Some companies will say to run a small current through the receive contacts (on the bench, out of the rig, of course) to "clean" the contacts, but I've not done that. Even on the gold contacts on the crypto gear in Vietnam era Navy ship radio rooms, we used a new, crisp, 20 dollar bill to scrub the contacts. Not sure this new "play money" has the same abrasives as the good, old real stuff, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6012. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 02:59:45 UTC
From: Ted Peckler
Topic: 5972 Message: 6012

Update!! I pulled the light bulb/fuse out again to meter it and compare it to a #47 bulb. I cleaned the pin area of the plug with a tiny file and gave it a little snug with forceps and put the bulb back in, put the cage back on and reconnected all the cords and fired it up. Bang! Houston we have lift off! The S Meter is working! I only wish my Swan was this easy!

--- On Fri, 11/11/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@...>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Friday, November 11, 2011, 6:14 PM

Ted,

Just remember, as Garey said, only a miniscule amount of corrosion on the pins of the #12 lamp or the socket WILL attenuate the receive signal greatly. Same on the receive contacts of the T/R relay. Careful use of DeOxit will cure a lot of ills in those areas.

73,

Don, WB5HAK

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[Non-text portions of this message have been removed]

6013. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 03:22:28 UTC
From: Garey Barrell
Topic: 5972 Message: 6013

> On Fri, 11 Nov 2011 10:24:02 -0500, Garey Barrell wrote:
>
>> The bulb in the TR-3/TR-4 series transceivers is not a fuse. It is a 'negative temperature
>> coefficient resistor', which is a fancy name for a resistor that goes UP in value when heated by
>> current through it.
> I think that's postive temperature coefficient. Resistance increases as
> temperature increases. NTCs are whats in power supplies to limit inrush;
> resistance goes down as temperature goes up. Using a lamp as a protector is not

Positive / schmositive.... Picky, picky, picky. :-)

I'll try my GrandDaughters excuse (13 1/2) "You know what I meant!!!"
Jim Shorney wrote:

They DO light up if there's another transmitter nearby.....

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6014. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 03:12:05 UTC
From: Phil Heath/W8XLR
Topic: 5972 Message: 6014

Gentlemen,
Id just like to chime in and say that this has been a most informative thread. Now Im inspired to extract my TR4CW/RIT from the closet and have another look at it after 20 years of storage. When I put it away, the same issues being discussed were present... Thanks guys!
73, Phil/W8XLR

From: Ted Peckler
Sent: Friday, November 11, 2011 9:59 PM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Update!! I pulled the light bulb/fuse out again to meter it and compare it to a #47 bulb. I cleaned the pin area of the plug with a tiny file and gave it a little snug with forceps and put the bulb back in, put the cage back on and reconnected all the cords and fired it up. Bang! Houston we have lift off! The S Meter is working! I only wish my Swan was this easy!

--- On Fri, 11/11/11, Don Cunningham <mailto:donc%40martineer.net> wrote:

From: Don Cunningham <mailto:donc%40martineer.net>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: mailto:DrakeRadio%40yahoogroups.com
Date: Friday, November 11, 2011, 6:14 PM

Ted,

Just remember, as Garey said, only a miniscule amount of corrosion on the pins of the #12 lamp or the socket WILL attenuate the receive signal greatly. Same on the receive contacts of the T/R relay. Careful use of DeOxit will cure a lot of ills in those areas.

73,

Don, WB5HAK

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6015. Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 03:28:22 UTC
From: Ted Peckler
Topic: 5972 Message: 6015

Well I pulled that bulb once, too bad I didn't clean and tighten the socket the 1st time. Thank you to every one! I love these old radios, and its nice that the forums are around to share the knowledge.

--- On Fri, 11/11/11, Phil Heath/W8XLR <w8xlr@...> wrote:

From: Phil Heath/W8XLR <w8xlr@ncweb.net>
Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving
To: DrakeRadio@yahoogroups.com
Date: Friday, November 11, 2011, 7:12 PM

Gentlemen,

Id just like to chime in and say that this has been a most informative thread. Now Im inspired to extract my TR4CW/RIT from the closet and have another look at it after 20 years of storage. When I put it away, the same issues being discussed were present... Thanks guys!

73, Phil/W8XLR

From: Ted Peckler

Sent: Friday, November 11, 2011 9:59 PM

To: DrakeRadio@yahoogroups.com

Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

Update!! I pulled the light bulb/fuse out again to meter it and compare it to a #47 bulb. I cleaned the pin area of the plug with a tiny file and gave it a little snug with forceps and put the bulb back in, put the cage back on and reconnected all the cords and fired it up. Bang! Houston we have lift off! The S Meter is working! I only wish my Swan was this easy!

--- On Fri, 11/11/11, Don Cunningham <mailto:donc%40martineer.net> wrote:

From: Don Cunningham <mailto:donc%40martineer.net>

Subject: Re: [DrakeRadio] Re: Drake TR-4 Transceiver S Meter not moving

To: mailto:DrakeRadio%40yahoogroups.com

Date: Friday, November 11, 2011, 6:14 PM

Ted,

Just remember, as Garey said, only a miniscule amount of corrosion on the pins of the #12 lamp or the socket WILL attenuate the receive signal greatly. Same on the receive contacts of the T/R relay. Careful use of DeOxit will cure a lot of ills in those areas.

73,

Don, WB5HAK

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6016. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 06:40:56 UTC
From: Jim Shorney
Topic: 5975 Message: 6016

Hi Paul,

On Fri, 11 Nov 2011 15:26:16 -0700, Paul Pollock wrote:

>But, we are overlooking that normally the ALC begins its attack at a point significantly earlier than 100% PEP, in most solid state transmitters (makers don't like blown transmitters, and like to under-rate the devices by being conservative with their ALC).

Actually, that's the point that I brought up in the early part of this discussion about how the TR-7 ALC is different than most other "modern" rigs, and is also addressed on the "Abominable ALC" page by SM5BSZ that I pointed to.

>Keep in mind, there is a FCC mandate for all transmitters (including HAM), that average modulation should be maintained at more than 50% in modern equipment

I must have missed that one, because I've never heard of it, at least WRT ham transmitters. I'd like to see a citation on that.

> (I can't think of a single solid state CB radio that does-not have a mic AGC/compressor superior to just about anything in HAM radio for 6 times the price).

I can, but that's another discussion. It was always my impression that the FCC mandated modulation limiters in CB radios to mitigate the tendency of CBers to buy power mics and crank the audio up to "get out better". It's been my experience that mod limiters in a lot of the CB rigs are downright junk, barely doing what they are supposed to do at best.

>Even Drake built the SP-75 to assist the TR-7 in this regard (anybody have $800 for an SP-75? Geez people have some interesting ideas on what stuff on EBay is worth).

Funny, I keep mentioning that I have one of those. :) There are other RF speech processors out there that do good jobs, various models by Daiwa an Ten-Tec, even the old Comdel(?) that turns up at hamfests cheap because people don't know what they are. for example. MFJ has even made RF processors, although I don't know that I would trust one. I wouldn't pay over $150 for an SP-75 if you have to have that model, and I think that is even a little high.

>2). "Again, true if you look at it a certain way. But you can't change the math."
>Yea, actually I can. There is no way to ascertain the PEP envelope of an AM signal without breaking out each component of the signal, then summing the results.

I don't mean to be flip, but then please explain to me how E^2/R is not valid. Maybe it's a difference in parameters, I've been referring to the composite waveform that does the work in the real world. Or is it some sort of qauntum thing?

http://xkcd.com/967/

Ok, seriously. Is the relationship not what it seems? Back up a little, I've had the argument before on how to define PEP, it's not really relevant. Use whatever you want, peak, RMS, the numbers work out the same. I'll use RMS of one cycle of RF at the point of interest of the composite waveform, as seen on a scope or from a simple AM envelope detector. So, let's present a carrier of 1 volt RMS across a 1 Ohm resistive load. Pretty simple, E^/R gives us one Watt. Now add a 100% modulated sine wave. The peak of the waveform is 2 Volts RMS over one cycle of RF at the peak. E^/R gives us 4 Watts. Plug in any number you want for the carrier, it works out to 4 times the power at peak/PEP/RMS/whatever.

Why is this invalid? Is the relationship not linear? i.e., is the peak voltage at 100% not twice the unmodulated carrier? Wouldn't this prevent us from ever getting undistorted audio from an AM detector if they work as the textbooks tell us? What am I missing?

>This is because a changing signal in the sidebands can be plugged into the formula normally (but separately), and the carrier output must be viewed as a PEP and the RMS simultaneously. This means that all the math is wrong because of bad assumptions in the real world.

Ummm, yeah. I don't follow that. How does a scope or a diode detector know this? All it knows is an RF waveform that is varying in amplitude at an audio rate. The fact that sidebands and varying phase/amplitude relationships are there makes no difference, they are all mashed together into a resultant waveform that looks and acts like an RF sine wave varying in amplitude at an audio rate in the real world. I'll admit that a diode detector is a nonlinear device, but my scope shoud be pretty linear. Sure, we can look at PEP an RMS simultaneously, but don't we only use one at a time when doing measurements or calculations?

FWIW, PEP is defined in Federal Standard 1037C as:

"peak envelope power (of a radio transmitter) [PEP, pX, PX]: The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions."

http://www.its.bldrdoc.gov/fs-1037/fs-1037c.htm

Sounds reasonable to me.

>He pointed out to me, as a teen, that 50% of all power produced was in the carrier. To hell with the formulas, they are just plain wrong.

Ok, let's just throw out Ohm's Law and the power formula then.

>When I studied the math for myself, the relationship of PEP to RMS was .707 or 1.414 (depending on which conversion you were using), except for an exception that even the books of the times laid out.

OK, wait. PEAK is 1.414 of RMS, or RMS is .707 of PEAK. Peak Envelope Power is a different animal. Peak is the maximum value at the crest of the waveform. PEP (Peak Envelope Power) is defined (as above) as the AVERAGE power of a single

cycle of RF at the crest of the modulation envelope. In this case, average power is defined as E(RMS)^2/R, so you could also say that PEP is the "RMS power" of a singly cylce. Peak power would be E(peak)^R. That nasty square root of 2 sneaks in there again. We really should ban it. Call the EPA!

> And that was that a continuous carrier PEP was equal to the RMS of that signal.

That's not a special case, that's just the way it is. In this case, The average power of any single cycle of a continuous carrier is the same as the average power of any other single cycle. No magic there. The assumption there is that average power = "RMS power". Is that where our numbers are at odds?

>In other words, screw the math, it's a bald faced lie, and 50% of the PEP of a transmitter is in the carrier. There is NO exceptions to these assumptions. Throw out the math, and look at the signal waveforms; they don't represent voltage, they represent power.

But it all has to match up, you can't get something for nothing. Otherwise, I need to stock up on magic wands, fairy dust (and magic server pixie dust if IBM still has any), and Harry Potter glasses. You can't say "screw the math" without some heavy artillery to back that up!

> If we inject a 1-Khz tone at the mike jack, and modulate fully, a properly designed 100-watt output radio should produce 100-watts PEP, and it doesn't. The assumptions are wrong, which causes the math to be erroneous.

I'm still not seeing precisely where the incorrect assumption(s) are. I should be able to empirically test this, right? Assume that I have a radio with a linear RF chain, and keep it out of ALC. I put a 1 KHz tone into the mic and adjust the audio level for 50 watts RF out on SSB. This should effectively be a 50 Watt PEP signal, very closely emulating a continuous carrier. My wattmeter tells me so, and E^2/R tells me so. I'll then insert a 25 watt carrier and re-apply the same tone at the same level, without altering the audio gain settings. I should see 100% modulation on the scope, no? I can do this, since my TR-7 is modified for DSB AM and any minimal carrier leakage with the carrier control set to zero should be insignifigant. Now, I would expect that things would change when two sidebands with no carrier are involved as opposed to one, but from 2:1 to 4:1? 3:1? This should be an interesting test. I would need to remove the bottom cover and disconnect a couple of wires to return to SSB AM, but it might be worth the trouble to see what happens. If nothing else, it would answer the question of how things are different between SSB with carrier and DSB with carrier WRT power readings, gain settings, etc. If I see what you expect me to see, that would imply that other assumptions about the way our electronics work are faulty as well. Where there's smoke, there's fire.

If the parameters of my test setup aren't valid, I'm sure you will tell me. :)

>Very few solid state radios used unbalancing to produce AM. Almost all of them, produce real Carrier-double-sideband AM.

Hmm, I'd have to check that, but I probably don't have the time to wade through a bunch of manuals to figure out how they do AM. The TR-7 produces AM at the tail end of the chain, and is not controlled carrier as in the tube rigs; the

balanced modulator and IF chain function as in SSB, with the carrier oscillator signal re-inserted in a summing amplifier on the 2nd IF/Audio board (just before the spot where ALC is applied, as it happens). Probably not the best way to do it if you want to maintain proper phase relationships, because you're passing the supressed carrier signal through several stages and the crystal filter before you get the carrier back, but it works well enough and sounds fine to most people. Jeff's mod for DSB simply switches in the AM filter for transmit, instead of using the default SSB filter. I had actually thought about trying that some time ago, but Jeff beat me to it. He did miss the fact that an extra step needs to be taken to center the carrier in the AM filter bandpass, but it still works.

>Again, this was fun; thanks for the time Jim.

Yeah, fun. Let's take down math! ;)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6017. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 14:54:10 UTC
From: Garey Barrell
Topic: 5975 Message: 6017

Jim Shorney wrote:
>> In other words, screw the math, it's a bald faced lie, and 50% of the PEP of a transmitter is in the carrier. There is NO exceptions to these assumptions. Throw out the math, and look at the signal waveforms; they don't represent voltage, they represent power.
> But it all has to match up, you can't get something for nothing. Otherwise, I
> need to stock up on magic wands, fairy dust (and magic server pixie dust if IBM
> still has any), and Harry Potter glasses. You can't say "screw the math"
> without some heavy artillery to back that up!
Never did trust math. Never did, never will. It's just a 'consensus among scientists' thingy,
kinda like global warming......

Ohm's Opinion, indeed!

[Seriously, enjoying the discussion!]

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6018. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 15:19:23 UTC
From: Jim Shorney
Topic: 5975 Message: 6018

On Sat, 12 Nov 2011 09:54:10 -0500, Garey Barrell wrote:

>Never did trust math. Never did, never will. It's just a 'consensus among scientists' thingy,
>kinda like global warming......
>
>Ohm's Opinion, indeed!
>
>[Seriously, enjoying the discussion!]

Maybe I need one of those "Negative Amplitude Coefficient" resistors...

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6019. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 15:37:11 UTC
From: Joe
Topic: 5975 Message: 6019

Ahhh...

So..Saperstein was right...The switch on the wall is a dark sucker, not a light switch!

Joe - WA6RKN

----- Original Message -----
From: "Jim Shorney" <jshorney@...>
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

> On Sat, 12 Nov 2011 09:54:10 -0500, Garey Barrell wrote:
>
>>Never did trust math. Never did, never will. It's just a 'consensus
>>among scientists' thingy,
>>kinda like global warming......
>>
>>Ohm's Opinion, indeed!

>>> Maybe I need one of those "Negative Amplitude Coefficient" resistors...

6020. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 16:39:43 UTC
From: Jim Shorney
Topic: 5975 Message: 6020

On Sat, 12 Nov 2011 07:37:11 -0800, Joe wrote:

>So..Saperstein was right...The switch on the wall is a dark sucker, not a
>light switch!

I believe that dark is a component of the magic smoke that makes our electronics work. If you have ever noticed, the darker the smoke that exits, the greater the damage to your radio. Too much dark has escaped in the smoke for your radio to function. This is clearly evident when the dark sinks in your radio have removed a lot of dark from the air in a short period of time via lightnig. The quantity of dark involved in lightning is so everwhelming that much of it escapes with the magic smoke that is released, and often residual dark trapped in solid form is left in the areas that used to have components.

Dark is also a component of AM, to keep this on topic. If you look at the screen on your scope when there is no waveform, is is mostly covered by a low level form of dark. The sinewaves that we see on our scope are actually blocking the dark, and this is how we are able to detect them. If you look carefully at the spaces between the sine waves and under the modulation envelope, they are dark. Ths is where that extra power is coming from, there is a quantum reaction between the dark and the dark-blocking sine waves. I think it's something akin to zero-point energy, perhaps zero-dark energy?

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6021. Wanted: Noise Blanker for TR-7.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 18:24:32 UTC
From: Ed WA4NJY
Topic: 6021 Message: 6021

Looking for a known good one.

I know it's a long shot but you never know.

Also, I am aware of the one on e-pay.

May consider a complete rig with no transmit. Just want a good receiver section.

Thanks,
Ed WA4NJY
Bradenton, Fl
wa4njy@...
941-746-1642

6022. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 18:32:39 UTC
From: Richard Knoppow
Topic: 5975 Message: 6022

----- Original Message -----
From: "Paul Pollock" <kd7bwb@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 09, 2011 10:52 PM
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

> To Jim Shorney NU0C,
>
Long thread snipped...

An automatic load control is essentially a compressor working at RF to prevent the final amplfier from being driven into an nonlinear condition. ALC is used in linear RF amplfiers for use on carrier suppressed amplitude modulated signals. A linear amplfier can also be used to amplify a full carrier AM signal, most early broadcast transmitters were low-level modulated using linear amplfiers to gain the final output power.
For a carrier suppressed signal the output _can_ vary from zero to some peak maximum. The amplfier has a definite limit on how much power it can deliver to the load within some distortion specification. The idea is to keep the drive from exceeding this output.
Amplitude modulated signals have a constant carrier level which is present whether or not its modulated. The peak during 100% modulation is four times the constant, unmodulated power, or twice its voltage. If a linear amplifier is used for AM it must be capable of undistorted ouput at this peak level.
Now, lets consider what an ALC or AGC circuit is actually doing: The assumption in using one is that the input signal is varying in some fashion that requires controlling. The control can be applied in two places: 1, the input signal itself before modulation; 2, the signal after modulation, that is, the drive signal to the final amplfier. The usual ALC is arranged so that it senses some condition in the final amplfier, say grid current, that indicates overdriving and generates a control voltage to be applied at some earlier stage such that the drive is reduced. This type of ALC should have little or no effect below some threshold. It is essentially a peak compressor.
In conventional amplitude modulation (because SSB is also amplitude modulation) the carrier is always present and is of a constant value. The modulation does not vary it but rather adds an additional signal in the form of sidebands.

When such a signal is amplfied by a linear amplfier the amplifier must have a sufficient linear range to accomodate the peak power value at 100% modulation, i.e., four times carrier power or double carrier voltage. If an ALC system such as used for SSB is applied here it must be so adjusted that the threshold is at the 100% modulation peak level.
Now, what happens if we use this sytem? It controls the _overall_ drive, that is both carrier and sidebands, into the amplfier so that if the sideband energy is increased both sidebands and carrier will be reduced in level. Now, if the AM signal being amplfied is overmodulated the ALC does nothing about this, it simply keeps the overmodulated signal in the linear range of the amplfier. One of the effects of overmodulation is to cut off the carrier on negative peaks thus causing RF distortion and "splattering". This effect is not affected by the ALC because it has no control over the _modulating_ signal, only the _modulated drive signal_. As a result it will not eliminate problems caused by overmodulation. Please note here the difference between distortion causing RF interferrence from an overdriven linear amplifier and distortion which is a part of the _modulating_ signal and is being amplified quite linearly by the amplifier. The sources of the distortion are quite different.
If one wants to eliminate distortion due to overmodulation of an AM signal it is the _modulating_ signal which must be controlled so that it never exceeds the limits for 100% modulation. That is commonly done using an AGC amplfier _ahead_ of the transmitter or which may be a compenent in the audio system of the transmitter. Such audio level control is sometimes done by converting the audio signal to RF and processing at an RF frequency, but that is completely different from attempting to process it in the RF stages of the transmitter.
Time constants: All gain control circuits have time constants, that is, they do not respond linearly to the amplitude envelope of the signal they are controlling. For audio the time constants used for attack and release time depend on the nature of the signal they are processing, i.e., the optimum ones (if such exist) are somewhat different for music, high quality speech, and communications speech. In the ALC another set of requirements exist because even instantaneous overload of the amplfier will produce distortion that results in RF interference so that the ALC should ideally have instantaneous action.
Now, in practice, ALC circuits in SSB transmitters are often used to accomplish the same results as processing of the modulating signal. They can not do this properly because the requirements for the time constants are, in general different. Nonetheless, a decent ALC will allow some

increase in average vs: peak power in speech. Ideally, the
ALC should never have to do anything and modification of
speech or other varying modulating singnal should be done
previous to modulation. This is sometimes done and some
transmitters include audio AGC circuits or clippers.
For speech the typical ratio of peak to average is
around 10db so that the judicial application of some
compression, peak limiting, clipping, or some combination,
can result in a substantial increase in the average level.
This is important where the transmission system is strictly
amplitude limited, as it is for all forms of amplitude
modulation. By applying some compression and some frequency
domain filtering to the speech signal its effectivness in
overcoming noise at the receiving end can be substantially
increased, which is what is desired.
For conventional amplitude modulation the application
of pre-modulation processing can also result in a
substantially inreased average modulation level which also
results in a "louder" signal at the receiver. All amplitude
or frequency processing is "distortion" in that the signal
following it is different in some way from the original, but
sometimes this "distortion" is benificial. It can be
overdone as a survey of local broadcast stations, especially
in large markets, will rapidly demonstrate.
The math for all types of modulation may be found in
many text books, written with varying clarity, it probably
helps to look at more than one source. Also, the application
of peak envelope power by the FCC in its regulations is, to
say the least, confusing. For instance, their maximum power
regulations for SSB and CW make some sense, the
specification for AM does not.
A final note: somewhere in this thread someone stated
that the FCC required broadcast stations to maintain at
least 50% modulation at all times! This is, of course, am
impossiblity. I think what is meant is that transmitters are
required to have a modulation _capability_ of at least 50%.
This is a very old regulation and I don't know if its still
in effect. It was meant to eliminate some very early
low-level modulated transmitters (modulated oscillators for
instance) which had very severly limited modulation
capability (maybe 30% maximum). It would certainly not apply
to any commercial transmitter built in the last about eighty
years.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@...

6023. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 18:19:52 UTC
From: Robert Fish
Topic: 5975 Message: 6023

Back in my younger days, late night discussions of this nature were
common. Usually shortly after "magic smoke" was evident in the room.

Bob K6GGO

> On Sat, 12 Nov 2011 07:37:11 -0800, Joe wrote:
>
> >So..Saperstein was right...The switch on the wall is a dark sucker,
> not a
> >light switch!
>
> I believe that dark is a component of the magic smoke that makes our
> electronics work. If you have ever noticed, the darker the smoke that
> exits,
> the greater the damage to your radio. Too much dark has escaped in the
> smoke
> for your radio to function. This is clearly evident when the dark
> sinks in your
> radio have removed a lot of dark from the air in a short period of
> time via
> lightnig. The quantity of dark involved in lightning is so
> everwhelming that
> much of it escapes with the magic smoke that is released, and often
> residual
> dark trapped in solid form is left in the areas that used to have
> components.
>
> Dark is also a component of AM, to keep this on topic. If you look at the
> screen on your scope when there is no waveform, is is mostly covered
> by a low
> level form of dark. The sinewaves that we see on our scope are actually
> blocking the dark, and this is how we are able to detect them. If you look
> carefully at the spaces between the sine waves and under the modulation
> envelope, they are dark. Ths is where that extra power is coming from,
> there is
> a quantum reaction between the dark and the dark-blocking sine waves.
> I think
> it's something akin to zero-point energy, perhaps zero-dark energy?
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C

> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
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>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

[Non-text portions of this message have been removed]

6024. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 19:58:18 UTC
From: Don Cunningham
Topic: 5975 Message: 6024

Or huge amounts of Jack Daniels or similar, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6025. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-12 20:15:50 UTC
From: Jim Shorney
Topic: 5975 Message: 6025

On Sat, 12 Nov 2011 10:32:39 -0800, Richard Knoppow wrote:

>The usual ALC is arranged so that it senses some
>condition in the final amplfier, say grid current, that
>indicates overdriving and generates a control voltage to be
>applied at some earlier stage such that the drive is
>reduced. This type of ALC should have little or no effect
>below some threshold. It is essentially a peak compressor.

Yes. Exactly the way the ALC in the TR-7 works. Well, except for the grid current part. A sample of the output of the forward power sensor, a simple AM detector, is applied to a comparator. When the preset threshold is exceeded, ALC control voltage is generated. The threshold is typically set at the level of 140-150 Watts forward power, into a 50 Ohm resistive load. The ALC board also incorporates the SWR shutdown protection, with a sample from the reflected power sensor applied to another comparator that causes the ALC to activate when VSWR is too high.

>If an ALC system
>such as used for SSB is applied here it must be so adjusted
>that the threshold is at the 100% modulation peak level.
>Now, what happens if we use this sytem? It controls the
>_overall_ drive, that is both carrier and sidebands, into
>the amplfier so that if the sideband energy is increased
>both sidebands and carrier will be reduced in level. Now, if
>the AM signal being amplfied is overmodulated the ALC does
>nothing about this, it simply keeps the overmodulated signal
>in the linear range of the amplfier. One of the effects of
>overmodulation is to cut off the carrier on negative peaks
>thus causing RF distortion and "splattering".

I touched on this also, as bing an effect of the TR-7 ALC.

> If one wants to eliminate distortion due to
>overmodulation of an AM signal it is the _modulating_ signal
>which must be controlled so that it never exceeds the limits
>for 100% modulation. That is commonly done using an AGC
>amplfier _ahead_ of the transmitter or which may be a
>compenent in the audio system of the transmitter. Such audio
>level control is sometimes done by converting the audio
>signal to RF and processing at an RF frequency, but that is
>completely different from attempting to process it in the RF
>stages of the transmitter.

My SP-75, which will never leave my hands. It is an RF processor (compressor/clipper) that functions at the mic audio point. It does a very good

job leveling the peak output when adjusted for 6 to 9 dB of clipping. I will typically run the radio just below the point where the ALC activates, and it seems to work very well. I will admit that I have made exactly one contact on AM within the past few years on the TR-7, so this is an area that I need to play in more. :)

> Now, in practice, ALC circuits in SSB transmitters are
>often used to accomplish the same results as processing of
>the modulating signal. They can not do this properly because
>the requirements for the time constants are, in general
>different.

This is what SM5BSZ addressed on his "Abominable ALC" page. Very interesting reading, and this article is what led me to avoid running the TR-7 into the ALC point as a general rule. Not to say that it is a major problem in the TR-7, I don't believe that Drake intended the ALC to operate as syllabic compression as described in the article, I just like the idea of a cleaner transmit signal.

> Nonetheless, a decent ALC will allow some
>increase in average vs: peak power in speech. Ideally, the
>ALC should never have to do anything and modification of
>speech or other varying modulating singnal should be done
>previous to modulation. This is sometimes done and some
>transmitters include audio AGC circuits or clippers.

I don't believe that the TR-7 has any audio AGC or clipping, the only control point is the ALC-driven attenuator on the @nd IF/Audio board.

> All amplitude
>or frequency processing is "distortion" in that the signal
>following it is different in some way from the original

Brilliant! I've known this for years, just as I've known that the MP3 computer format is intentional distortion. You should see the looks I get from self-professed "audiophiles" when I tell them that. Heehee.

>sometimes this "distortion" is benificial. It can be
>overdone as a survey of local broadcast stations, especially
>in large markets, will rapidly demonstrate.

I was told years ago by an engineer that radio stations adjust their audio to sound good on a cheap in-dash car speaker. This was before hi-fi car stereos. He even mentioned an AM station he worked at that had an actual car radio and speaker mounted in the equipment rack as a monitor.

Great stuff, Richard, thanks for jumping in. This is probably going to get Paul all fired up again! :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
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http://www.nebraskaghosts.org

6026. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 03:30:30 UTC
From: Paul Pollock
Topic: 5975 Message: 6026

Hi Jim N0UC,

Again, I'm not going to resend all that went before, so I'll simplify <grin>. Just be aware that it took 4-hours to write this <grin>.

I checked SM5BSZ's website. No mention of TR-7 ALC specifically, unless it was a comment in one of his unrelated articles. But that's quite all right. Any ALC that works is not "abominable".

As for the FCC mandating compression limiters to mitigate the use of power mics; we do well to have some historical perspective. There were no power mics on the market for several years after the original creation of the CB R&O from the FCC (and not many even in the HAM community [compression? What's compression? I don't need no steenkeen compression, I got ALC <grin>]).
Remember the average modulation spec, I spoke of? The FCC knew (figured out after the initial R&O) that without some kind of limiting and compression, the average modulation would be at the mercy of the person speaking into the mic. In those days, CB radios were pretty crude (Johnson Whiteface anyone <grin>?), and all were Carrier AM. This leads us to the expanded CB R&O some years later, which required the compression/limiters. Some years after that, makers came out with power-mics, etc. Power-mics were a lousy idea, when by then, the compression/limiters were quite good, and the radio was not "improved" by the use of extra amplification at the mic circuit (as you well know).
Even with the compression/limiters in place and working; with enough amplification, the user was able to totally saturate the internal mic-amp, and splatter the thing into three colors of distortion (mostly blue for our bruised hearing <grin>). Hence the progression into "... the problem is the compression/limiter, so we'll get rid of that ...". We know where that went, IMD, harmonic products, channel overlapping, and an overall destruction of the entire CB frequency spectrum in some locales, because of the basic increase in electronic noise. Thank GOD CB as an excuse for stupidity has given way to less abuse, over the last 30 years.
There was some attempts to make useful mic products. The Turner +3, comes to mind. Even used on Ham Tube rigs, this mic was one of the few useful exceptions. And almost useful in the CB community, few users of the +3 were the kind of folks that cut the limiters out of their CB radios (thank God).

RF Speech compressors. If I had to tell the truth, I'd have to say that I prefer a well designed audio compressor, versus the RF speech compressor. The circuits are simpler, they need less alignment, and the circuit is similar in capability. For example, TenTec has a RF Speech Compressor for $250, but they also used-to make an audio speech compressor kit that could make 6db of compression for less than $15 (I have one of these)!
But I'm aware that many folks want a compressor that provides time-domain output that resembles a square wave, which explains why there are some folks that can't understand why we can sometimes hear the wifes' mixmaster in the background when some folks crank compressors up too hi <grin>.
Because it is difficult to get distortion out of a properly aligned RF speech compressor, they've been a very strong inducement to excessive compression (you and I both have

mentored people in getting them to turn down the compression in order to reduce the background racket, and still get meaningful average talk power <grin>, of course this means lowering the compression level to the range any audio compressor can manage).
I tend to like the fact that an audio type compressor will usually go into distortion before background noise becomes REALLY objectionable. I like to think of it as a failsafe. The user can hear excessive compression distortion in his radios' monitor function, and that helps us all (this assumes of course, that the user is sane and reasonable <grin>).
But in even more general application, compressors can even be objectionable when they ARE set correctly. You recall how many people have to shout to overcome the sound of their tabletop amplifier fans <grin>. The same guy who has the $6000+ to buy the amp, thinks $300 for a low-signal noise gate clamp is a poor use of money. Go figure. No compression. Mild compression. Excessive compression. Everybody, that has one, gets to choose.

E*E/R is great formula for Power. E*I also for Power. Power formulas, Shpower formulas. They only work with a proviso. The formula is only valid for a single waveform. Everything BUT modulated carrier AM can be assessed via these simple Ohm's Law variant formulas, in one step. But modulated carrier AM is composed of three simultaneous waveforms. This fact makes common usage of power formulas (common for other modes) totally useless, unless we go to some extra effort to break out each part of the signal and interpret them individually.
I never tried to imply that the math by itself was of no use, but math always become useless if we try to use it with the wrong assumptions for inputted data. I was making a case for throwing out the math, because we can test my point with instruments, and find that common usage of Ohm's formulas for Power, are wrong for Modulated Carrier AM. I was trying to get people to re-assess the assumptions. Physical facts, trump the answers gotten from misused math, every time.
Let's look at modulated carrier AM another way. If we look at the AM waveform (with a 1-Khz modulation) in a oscilloscope, normally showing voltages over the time domain, we see only the modulated wave impressed on the carrier band. This does NOT show us a true representation of the structure; only the peak voltages, and the relationship of signal to carrier versus the available power supply. We WANT to see this, if we are calibrating a transmitter, in order to get full saturation without distortion or IMD products. But this is totally useless for making a good calculation for POWER.
To do that, we need a spectrum analyzer. A spectrum analyzer is a oscilloscope that operates by frequency, instead of time. The spectrum analyzer shows us what a properly calibrated, and modulated carrier and sidebands looks like as spikes in the frequency domain (it turns the O-scope waveform on its' horizontal edge 90 degrees). What we see is the negative sideband (half the height of the carrier). The carrier. And the positive sideband (again, half the height of the carrier). This means that the minus sideband is 25% of all power, carrier is 50% of all power, and the positive sideband is another 25% of all power. 25%+50%+25%=100%. This means that a radio that CAN produce 100-watts, and has a AM carrier of 25-watts, will PEP at 50-watts. 12.5+25+12.5=50-watts.
Now we can make an intelligent assessment of power for AM. You cannot use a single waveform to interpret AM, because there are more signals than one. It doesn't matter how you get there, a carrier at 25% power is completely wrong, given good design and a sufficient power supply. There is nothing magical about AM versus FM carriers, or CW for that matter. If the given transmitter can make 100-watts, then by using our eyes with our spectrum analyzer, carrier is 50-watts, and the sidebands will calibrate out at 25-watts a piece. That's 100-watts. The power formula works, but only IF we know the relationship of the carrier to sidebands. Without that, we get weird assumptions like 25-watt carriers in 100-watt radios.

"PEP is defined in Federal Standard 1037C". Correct, for a single waveform. But modulated carrier AM, is not a single waveform, making all previous assumptions correct if we assess all waveforms in the AM signal SEPARATELY.

Let's look at your discussion of TR-4 AM (or the really weird approach [as you say] of the tr-7 AM). If we are unbalancing the modulator, to produce a carrier, and then mixing some audio with it, we will get one sideband,and one carrier. In this example, it would be just fine to continue with 50% carrier, and then 50% for the existing sideband modulation (as long as we understand that a diode detector receiver will AGC at the wrong point, and the audio will be a little loud). But that's not true Carrier AM, it is a simplified variant, missing the other sideband. If it is NOT missing, then both sidebands are 25% power EACH. The composite potential always comes out 100% Power.
Let's get really weird, and look at a normal audio voice waveform. All composite frequencies, within each sideband envelope must share 25% power, for each sideband. Some of these sounds will get pretty small, by power. As you say, you can't get something for nothing. The sidebands, regardless of their structure, are ALWAYS 25% power, EACH.

All of this discussion leads us to a very interesting conclusion. SSB signals are much more power efficient than modulated carrier AM. Now we see why. Not having to give power to the carrier and one sideband, all available power can be sent in the output sideband. In fact, we could reasonably say that SSB is 75% more power efficient. We knew this when DSB, and then later, SSB radios were invented. It is a shame that these common sense facts have been distorted by poor reasoning, and actual FCC rules on the books (like 375 watts carriers for AM 1500 PEP [total nonsense]).

Again lots of fun, thanks Jim!

-Paul Pollock
KD7BWB

[Non-text portions of this message have been removed]

6027. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 03:42:40 UTC
From: Paul Pollock
Topic: 5975 Message: 6027

Again to Jim NU0C,

Check out:

http://www.icehouse.net/john1/index11.html

Bedini Technology, makes a circuit that uses the Inverse Coefficient Resistors, for Quantum Power Generation. It's not the only Zero Point Transducer available.

Also Check out:

http://jnaudin.free.fr/meg/meg.htm

This item "MEG" by T.E. Bearden and friends, has a U.S. Patent. and it works, as a lab experiment, generating kilowatts; consuming nothing, once started up.

-Paul Pollock
KD7BWB

On Nov 12, 2011, at 8:19 AM, Jim Shorney wrote:

> On Sat, 12 Nov 2011 09:54:10 -0500, Garey Barrell wrote:
>
> >Never did trust math. Never did, never will. It's just a 'consensus among scientists' thingy,
> >kinda like global warming......
> >
> >Ohm's Opinion, indeed!
> >
> >[Seriously, enjoying the discussion!]
>
> Maybe I need one of those "Negative Amplitude Coefficient" resistors...
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/

> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

[Non-text portions of this message have been removed]

6028. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 04:32:04 UTC
From: Brenton Crowhurst
Topic: 5975 Message: 6028

I've been much enjoying the back and forthing (not yet frothing) on this topic, getting something of an education.

Much like back in school days, however, I'm really just nodding along with the class for much of it, not really understanding. I think I have some reading to do for homework.

I should know better than to come to class unprepared.

Now for some black smoke, or better yet, Jack D!

Cheers fellas, I mean, errr, 73,

Brenton Crowhurst,
VE6IE

On 2011-11-12, at 9:39 AM, Jim Shorney wrote:

> On Sat, 12 Nov 2011 07:37:11 -0800, Joe wrote:
>
> >So..Saperstein was right...The switch on the wall is a dark sucker, not a
> >light switch!
>
> I believe that dark is a component of the magic smoke that makes our
> electronics work. If you have ever noticed, the darker the smoke that exits,
> the greater the damage to your radio. Too much dark has escaped in the smoke
> for your radio to function. This is clearly evident when the dark sinks in your
> radio have removed a lot of dark from the air in a short period of time via
> lightnig. The quantity of dark involved in lightning is so everwhelming that
> much of it escapes with the magic smoke that is released, and often residual
> dark trapped in solid form is left in the areas that used to have components.
>
> Dark is also a component of AM, to keep this on topic. If you look at the
> screen on your scope when there is no waveform, is is mostly covered by a low
> level form of dark. The sinewaves that we see on our scope are actually
> blocking the dark, and this is how we are able to detect them. If you look
> carefully at the spaces between the sine waves and under the modulation
> envelope, they are dark. Ths is where that extra power is coming from, there is
> a quantum reaction between the dark and the dark-blocking sine waves. I think
> it's something akin to zero-point energy, perhaps zero-dark energy?
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.

> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

[Non-text portions of this message have been removed]

6029. TR-4 No output No Xmtr Gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 08:13:53 UTC
From: facsmart
Topic: 6029 Message: 6029

Ok, now that the S meter issue is resolved I have a new one. I am attempting to tune the rig, I have followed the manual, but the Xmtr gain has no effect, will not rise above idle current .1. Plate and load at 0. I am stumped. What am I doing wrong?

6031. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 15:46:42 UTC
From: Garey Barrell
Topic: 5975 Message: 6031

Paul Pollock wrote:
> Let's look at your discussion of TR-4 AM (or the really weird approach [as you say] of the tr-7 AM). If we are unbalancing the modulator, to produce a carrier, and then mixing some audio with it, we will get one sideband,and one carrier. In this example, it would be just fine to continue with 50% carrier, and then 50% for the existing sideband modulation (as long as we understand that a diode detector receiver will AGC at the wrong point, and the audio will be a little loud). But that's not true Carrier AM, it is a simplified variant, missing the other sideband. If it is NOT missing, then both sidebands are 25% power EACH. The composite potential always comes out 100% Power.
>
Minor corrections...

Unbalancing the Balanced Modulator to produce a carrier, and then mixing some audio with it,
produces TWO sidebands and one carrier. The selected crystal filter determines which one is transmitted in SSB.

The TR-4 generates AM by unbalancing the Carrier Oscillator. It is then shifted ~900 Hz to put it
within the LSB filter, mixed to the desired band and amplified. The AM modulation is 'controlled
carrier' of the Driver and PA, a form of Screen Modulation that I think came up earlier in the
discussion. The amplitude of the carrier varies with modulation, rising only high enough to support
the modulation applied, making it much more appropriate for use with a linear amplifier. There is
NO ALC applied in AM. The T-4X(any) use the same system.

As Jim said, the TR-7 uses an entirely different scheme for AM, which he has described.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6032. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 17:40:51 UTC
From: Jim Shorney
Topic: 5975 Message: 6032

On Sat, 12 Nov 2011 20:30:30 -0700, Paul Pollock wrote:

>This leads us to the expanded CB R&O some years later, which required the compression/limiters. Some years after that, makers came out with power-mics, etc.

Again, I don't recall that compressors were mandated. I'd like to see a citation on that. Limiters were. And power mics were available before lmiters came into common usage. But this is a digression from the original topic.

> There was some attempts to make useful mic products. The Turner +3, comes to mind.

Agreed on that. I generally detest preamped mics where they are not needed, and I remove the amplifiers from Astatic T-UGx stands. But I tried out a +3 on my rig one time just as a lark, and it edged out several other respected mics in audio checks with locals who know my voice. The fact that the SP-75 also has a little bit of audio compression does not seem to cause problems with gain settings at sane levels.

>RF Speech compressors. If I had to tell the truth, I'd have to say that I prefer a well designed audio compressor, versus the RF speech compressor.

The ones I'm thinking about apply compression in audio, clipping in RF. It is documented that RF clipping is the most effective method of improving intelligibility over log paths, over audio compression and clipping. Audio clipping is a no-no because the harmonics can't be dealt with easily, and you've addressed the problems with over-compression.

> The same guy who has the $6000+ to buy the amp, thinks $300 for a low-signal noise gate clamp is a poor use of money. Go figure.

FWIW, the SP-75 has a noise gate built-in. Should be worth $300, no? :)

No compression. Mild compression. Excessive compression. Everybody, that has one, gets to choose.
>
>E*E/R is great formula for Power. E*I also for Power. Power formulas, Shpower formulas.
> They only work with a proviso. The formula is only valid for a single waveform.

Exactly! And that's what makes you right, Paul. You are absolutely correct that the sidebands are 50% of the amplitude, or 25% of the power, of the carrier at 100% modulation. If you do the calculations at that level. But that's not the way we do things. We look at the composite waveform, which is what does the work for us. Even SSB voice is a composite waveform, but we don't break out all the individual sideband frequencies to calculate power, we measure the composite waveform.

Each sideband is 50% of the amplitude of the carrier. E^/R tells us that the power is 25% of the carrier, for each sideband. Again, that's taking each

component as a single entity. Good. You are correct. But what happens when we add them together into a composite waveform? We don't add power, we add voltages. At some point, the voltage at the peak of the waveform in both sidebands (talking single-tone modulation for simplicity) will line up, or be in phase with if you will, with the peak of the carrier. 100% + 50% + 50% = 200%. There, we have our doubling of the votlage. At some other point, the peak of both sidebands simultaneously will be out of phase with the peak of the carrier. 100% - 50% - 50% = 0. At various other points throught the modulation cycle, the sidebands add or subtract in different ratios. Congratulations, we have just produced a modulation envelope! This is what we see on our scope, what our envelope detectors respond to, and I dare say what we hammer our resonant antennas with. And doubling the voltage quadruples the power. Nothing magic about it, just physics. You can't invalidate the power formula in one circumstance and expect it to hold true everywhere else. You really can't have your cake and eat it too.

Things change when you have only one sideband in AM SSB. If we limit the amplitude of the sideband to 50% of the carrier, as in DSB AM, we can only achieve 50% modulation. Therefore, the amplitude of the sideband must be the same as the amplitude of the carrier to get to 100%. The same reasoning regarding the phase adding and subtracting to create the modulation envelope in the time domain applies here.

> that the minus sideband is 25% of all power, carrier is 50% of all power, and the positive sideband is another 25% of all power. 25%+50%+25%=100%. This means that a radio that CAN produce 100-watts, and has a AM carrier of 25-watts, will PEP at 50-watts. 12.5+25+12.5=50-watts.

You do have a slight math error there. The sidebands are 50% of the voltage amplitude of the carrier, or 25% of the power level, true. But that is referenced to the carrier as 100%, not 50%. As you know, the carrier amplitude on a spectrum analyzer doen't decrease when sidebands appear. It stays at that reference level. So you are adding the sideband power to the carrier power, and that makes 25% + 25% + 100% = 150%. Using the proper math by shifting our reference to the total power level of 150% of the carrier, the carrier would be 66% of the TOTAL power, the sidebands a combined 33%. That's not quite right either because it ignores the fact that power increases as the square of the voltage, and you keep talking about power. But we'll go with it for now.

Using the AM SSB example above, if we eliminate one sideband, the have to double the voltage of the other sideband to produce 100% modulation. That means power increased by a factor of four. That means for your 50 Watt carrier we would need - wait for it - a 50 Watt sideband! That evil square sneaks in there again.

> Now we can make an intelligent assessment of power for AM. You cannot use a single waveform to interpret AM, because there are more signals than one.

Sure you can. It's called a composite waveform. Look at it this way: a square wave is a composite waveform of a sine wave and a bunch of it's harmonics. We can sure see that on a spectrum analyzer. Yet everyone knows that the RMS value of a square wave is the same as it's peak, and that it will produce the same

amount of power in a resistive load as a DC voltage of the same level. There's no magic server pixie dust that changes the laws of physics from on kind of composite waveform to another. Not that I know of anyway, snake-oil magnetic power generating gadgets notwithstanding.

>modulated carrier AM, is not a single waveform, making all previous assumptions correct if we assess all waveforms in the AM signal SEPARATELY.

We don't. That's whe point. We measure the composite waveform.

>
>Let's look at your discussion of TR-4 AM (or the really weird approach [as you say] of the tr-7 AM). If we are unbalancing the modulator, to produce a carrier, and then mixing some audio with it, we will get one sideband,and one carrier.

No, we get two sidebands with a carrier. One sideband is removed by the crystal filter. The carrier in the TR-7 is re-inserted after the crystal filter. So it's not really the same as the TR-4. The BM stays balanced, and the carrier oscillator is snuck back in through the side door just before we hit the kitchen. It works out about the same, ignoring the controlled carrier stuff. It looks like a duck and quacks like a duck, albiet with only one wing.

> In this example, it would be just fine to continue with 50% carrier, and then 50% for the existing sideband modulation (as long as we understand that a diode detector receiver will AGC at the wrong point, and the audio will be a little loud). But that's not true Carrier AM, it is a simplified variant, missing the other sideband. If it is NOT missing, then both sidebands are 25% power EACH. The composite potential always comes out 100% Power.

33/66%, remember?

> Let's get really weird, and look at a normal audio voice waveform. All composite frequencies, within each sideband envelope must share 25% power, for each sideband. Some of these sounds will get pretty small, by power. As you say, you can't get something for nothing. The sidebands, regardless of their structure, are ALWAYS 25% power, EACH.

No, each sideband is at a power level of 25% as referenced to the carrier level. They don't steal anything from the carrier, it's still there. We calculate power from that same formula you wanted to throw out. The reference level doesn't change. I think that works out to 16% of the *total* power in each sideband.

A 100 Watt carrier and 25 watts in each sideband = 150 Watts. 25/150 = 16.67% of the total power is in each sideband. Holy cats, that's a 6:1 ratio! This gets better as I go along! 1500 / 6 = 250 Watts. If we go by the original 4:1 ratio that E^2/R on the composite waveform proves, 1500 / 4 = 375 Watts. Where have I heard that before? That's more like what can be arrived at empirically.

I think you can see why we don't add power, we add voltages. I don't think that anyone would disagree that if we could somehow capture a single cycle of the composite waveform at the peak of the envelope, we would see a sine wave at an RF frequency. If we then applied that sinewave to a load, we would have a single cycle burst of E^2/R power in that load. That doesn't change if we capture a bazillion cycles of the composite waveform.

>All of this discussion leads us to a very interesting conclusion. SSB signals are much more power efficient than modulated carrier AM. Now we see why.

Yeah, 6:1. Wow. I need a bigger antenna....

73

-Jim (it took me 2 hours to write this)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6033. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 17:42:24 UTC
From: Jim Shorney
Topic: 5975 Message: 6033

On Sat, 12 Nov 2011 20:42:40 -0700, Paul Pollock wrote:

>Bedini Technology, makes a circuit that uses the Inverse Coefficient Resistors, for Quantum Power Generation. It's not the only Zero Point Transducer available.
>
>This item "MEG" by T.E. Bearden and friends, has a U.S. Patent. and it works, as a lab experiment, generating kilowatts; consuming nothing, once started up.

Your'e kidding ... right?

73

-Jim (looking for my bag of magic server pixie dust)

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6034. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 20:29:19 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 6034

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

6035. Re: TR-4 No output No Xmtr Gain

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-13 23:52:12 UTC
From: facsmart
Topic: 6029 Message: 6035

I have an update, I cleaned the Cal/SSB/xCW/xAM switch, what a pain to get to. I now have output, I will have to clean the xmtr gain pot, I have the good deoxit coming this next week.

Now to get the AC hum out of the transmit.

--- In DrakeRadio@yahoogroups.com, "facsmart" <facsmart@...> wrote:
>
> Ok, now that the S meter issue is resolved I have a new one. I am attempting to tune the rig, I have followed the manual, but the Xmtr gain has no effect, will not rise above idle current .1. Plate and load at 0. I am stumped. What am I doing wrong?
>

6036. For Sale: Drake MSR-2 Communications Receiver

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 00:48:13 UTC
From: pidxr
Topic: 6036 Message: 6036

For Sale: Drake MSR-2 Communications Receiver with manual. Excellent physical condition. All nixie display tubes are fully functional and brightly lit. Jim, W8ZR has an excellent write up on the MSR-2 receiver if you are not familiar with it. Here is the link

http://www.w8zr.net/vintage/receivers/MSR2.htm

Here are some pictures of this MSR-2 receiver.

http://home.comcast.net/~bipi/sales/msr2_frt1.jpg

http://home.comcast.net/~bipi/sales/msr2_frt2.jpg

http://home.comcast.net/~bipi/sales/msr2_frt3.jpg

http://home.comcast.net/~bipi/sales/msr2_frt4.jpg

http://home.comcast.net/~bipi/sales/msr2_frt5.jpg

http://home.comcast.net/~bipi/sales/msr2_back.jpg

http://home.comcast.net/~bipi/sales/msr2_top.jpg

http://home.comcast.net/~bipi/sales/msr2_bot.jpg

http://home.comcast.net/~bipi/sales/msr2_fil.jpg

The radio is fully functional on AM. However, there are problems with the product detector and it does not operate on SSB or CW. There are several charred components on the IF/AVC board which can be seen on the following pictures. I just don't have the time for this project.

http://home.comcast.net/~bipi/sales/msr2_ifbd1.jpg

http://home.comcast.net/~bipi/sales/msr2_ifbd2.jpg

http://home.comcast.net/~bipi/sales/msr2_ifbd3.jpg

Price is $400 plus shipping from 98040. Prefer local pickup. Please contact me with any questions.

Thanks

73 de Mike
K7PI
Mercer Island, WA

6037. For Sale or Trade: TR-7, Extras.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 04:31:20 UTC
From: Ed WA4NJY
Topic: 6037 Message: 6037

Have a very clean TR-7 with a few issues. Includes 7077 desk mic, 1.8kc and .500kc filters, fan, power cable, original manual.

The issues:

1. UP button is not working.
2. Mic gain needs to be 3/4 open for full meter deflection. Audio reports are good.
3. Display reads about 200 cycles low.
4. One small knob has missing insert.

Otherwise, it has made several contacts recently. I will be using it on 10 meters now.

Looking for offers or suggestions on value. Will consider trades involving other HF rigs or Drake R4-A or B.

Ed WA4NJY
Bradenton, Fl
wa4njy@...
941-746-1642

6038. Re: e-Mail Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 19:43:46 UTC
From: Garey Barrell
Topic: 5975 Message: 6038

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6039. Re: [DrakeRadio] Re: e-Mail Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 20:01:39 UTC
From: Dennis Weal
Topic: 5975 Message: 6039

It works Garey.

Denny

----- Original Message -----
From: Garey Barrell
Sent: 11/14/11 02:43 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: e-Mail Test

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com >

[Non-text portions of this message have been removed]

6040. Re: e-Mail Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 20:15:06 UTC
From: Garey Barrell
Topic: 5975 Message: 6040

Denny -

OK. Apparently I can send mail, but no receive capability. A message to myself disappears. A post
to the list shows on the list MAIL so it's getting out, just not in.

Seems like a great time to call out everyone I know and they won't be able to get back at me!! At
least for a while... :-)

NO e-Mail received here since about 1100.

Thanks for the response!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6041. Re: [DrakeRadio] Re: e-Mail Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-14 20:20:40 UTC
From: Dennis Weal
Topic: 5975 Message: 6041

Been there had that happen to me too. Probably the homeland security peeps checkin you out. LOL

Denny

----- Original Message -----
From: Garey Barrell
Sent: 11/14/11 03:15 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] Re: e-Mail Test

Denny -

OK. Apparently I can send mail, but no receive capability. A message to myself disappears. A post
to the list shows on the list MAIL so it's getting out, just not in.

Seems like a great time to call out everyone I know and they won't be able to get back at me!! At
least for a while... :-)

NO e-Mail received here since about 1100.

Thanks for the response!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com >

[Non-text portions of this message have been removed]

6042. Re: e-Mail Test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 14:01:54 UTC
From: fred
Topic: 5975 Message: 6042

have had a similar problem with outlook express where I can receive but not send , not sure why but the box for server authentication gets unchecked . if you are using outlook check the email settings .
ks5pnt

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

6043. Re: [DrakeRadio] Re: e-Mail Test How to = perhaps - fix

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 14:48:22 UTC
From: Kris Merschrod
Topic: 5975 Message: 6043

I woke up to the same problem today, and had it before.

1) the first time was that my ISP (local family-run company), it turned out that they have to go through Verizon's system and Verizon put a stong arm on them (and did not notify me that I had to) so that all outgoing needs to go through Verizon, but to do that you need an email account that uses SMPT

At the top of your windows mail go to TOOLS, then ACCOUNTS; then PROPERTIES; then SERVERS; and look at the " outgoing mail server"; then click SETTINGS an in there look at or for " Use same setting as my incoming mail" or if tghe second button is checked " Log in Using" see if your user name and password are corrrect.

Why that last section " Log in Using" was blank this AM I do not know, but once completed with the Verizon info, it sent again.

Kris KM2KM
----- Original Message -----
From: fred
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, November 15, 2011 9:01 AM
Subject: [DrakeRadio] Re: e-Mail Test

have had a similar problem with outlook express where I can receive but not send , not sure why but the box for server authentication gets unchecked . if you are using outlook check the email settings .
ks5pnt

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

[Non-text portions of this message have been removed]

6044. e-Mail Outage

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 15:24:24 UTC
From: Garey Barrell
Topic: 6044 Message: 6044

Thanks to all for responding to my test messages sent yesterday.

The problem was at my ISP (Earthlink) and while I was able to send mail, no mail was received
between about 1100 and 1700. My test message was to SEE IF my mail that went out, really went
out.! I could then check the Yahoo group Messages and see that the message sent to the list WAS
actually there.... :-)

Anyway, all is well. My e-mail actually goes through Verizon in Richmond, to Mindspring in Atlanta,
to the internet. I do this to keep my mindspring address.

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6045. TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 19:42:50 UTC
From: Paul Horvitz
Topic: 6045 Message: 6045

Thank you all for the ideas, It turned out those molex pins in a way.
When I had the translator board out the last time after reading the comments/ideas left on the group here, I noticed marks on either side of chassis where the board touched shield as it slid into place were not vertical. I'd inserted the board at a slight angle so the pins on molex were not in their proper spot but rather up against the PCB of translator. Shorting to ground some of them. Funny thing is I'd reinstalled it over and over while trouble shooting and didn't notice till it was mentioned about the molex pins in this great Drake group here.
Got 10v reg, 5 v reg now all OK, no transistor heating...now on to the next problem with this TR7 of mine! No Rx 10v going to 2nd IF/audio board. I'll start on that in a day or two, life gets in the way of hamming fun sometimes!

Thanks again everyone,
73,
Paul
WA6IAF

6046. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 20:01:01 UTC
From: William Garrett
Topic: 5964 Message: 6046

Sorry for the long delay in responding. I got tied up on another project on the farm.
The name is William, WB1KER.
Zero experience with tube radio gear. Taking it very slow and trying to learn as much as I can. I am restoring an old 1939 Hallicrafters SX-24 to learn more about theory, etc.
The mic is giving me fits. I found
several schematics on the web but none of them match my mike as far as color codes go.
Next is a pic of the schematic. Top is the schematic, bottom is what I have. Similar but withan additional Green wire and the insulator between #2 and #3.
The yellow from the head was broken loose from the switch. I soldered it back to #2, the center wire of the shielded wire, as per the schematic. I do not get a short between the shield and any of the other wires when the mic is keyed.
There are two wiring options on the schematic. One for Relay operation, one for Electronic Switching. The Relay option more closely matches what I have, with the exceptions, an insulator between #2 and #3 and a Green wire connected to #3, that I have drawn in. Which should I be using with the Drake?

#1 Shield#2 White (center of shield)#3 Green#4 Red#5 Black
#2 and #4 actually contact on the outer end so that when the switch is pressed,both arms move simultaneously, unlike the schematic. It looks as if #1 and #2 areshorted until the switch is pressed. Then contact is made between #4 red and #5 black

73
William
WB1KER
501-291-3184

--- On Thu, 11/3/11, Don Cunningham <donc@martineer.net> wrote:

From: Don Cunningham <donc@...>
Subject: Re: [DrakeRadio] Microphone Hookup Assistance Please
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 3, 2011, 6:14 PM

I didn't see a name on your email, so can't do this "personally" but welcome to the group. The RST on your connector stands for Ring, Sleeve and Tip. The Drake manual will show you to hook the shield to the S terminal or the sleeve (the longest metal part) of the connector. Whichever wire is the PTT (push to talk) hooks to the Tip (of course, the very end of the plug) and the audio lead from the microphone element hooks to the Sleeve (the little ring between the ring and the sleeve). You can locate the PTT lead easily by hooking one lead of your ohmmeter to the shield, and see which other wire shows a short only when you push the PTT lever or switch.
The
other one is the mic audio. Also mic audio is often inside the shield wire if you look closely, and is often white in the old microphones. I don't know the 619 EV mic, but Google it and you will find the wire colors if you can't follow the above.

That said, tell us your knowledge level with tube gear. You can DESTROY the final tubes in our T4XC transmitter if you aren't familiar with tube gear tuning. I don't mean to "talk down" to anyone, but these are TV sweep tubes and are NOT forgiving to abuse.

Again, welcome to the group, and hope you enjoy your C Line. If it needs any TLC, give a look on Garey's website at his CD for the Drake C Line (www.k4oah.com). It's a WEALTH of knowledge for these old rigs.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6048. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 20:10:39 UTC
From: William Garrett
Topic: 5964 Message: 6048

Ok, I see my pics don't appear in the post.
If links appear, here is the Electronic switching schematic
http://i247.photobucket.com/albums/gg126/perzaklie/electronicwiring.jpg
here is the Relay switching schematic with the differences in mine drawn in
http://i247.photobucket.com/albums/gg126/perzaklie/wiring.jpg

73
William
WB1KER
501-291-3184

--- On Thu, 11/3/11, Don Cunningham <donc@...> wrote:

From: Don Cunningham <donc@martineer.net>
Subject: Re: [DrakeRadio] Microphone Hookup Assistance Please
To: DrakeRadio@yahoogroups.com
Date: Thursday, November 3, 2011, 7:15 PM

William,
You will find this to be a very helpful group. Please ask questions as you go, that's what makes the reflector go.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6049. Re: [DrakeRadio] TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 20:11:21 UTC
From: Garey Barrell
Topic: 6045 Message: 6049

Paul -

Cool! Yes, it's all too easy to 'miss' the pins on these cards. Little visibility, and it 'feels'
about right! :-)

For your missing 10R signal, start at Q307. This transistor doubles as a fuse for the 10R line, and
even a momentary short will take it out.

10R goes into the Translator board on Pin 15, so it's quite possible that it got zapped at the same
time.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Horvitz wrote:
> Thank you all for the ideas, It turned out those molex pins in a way.
> When I had the translator board out the last time after reading the comments/ideas left on the group here, I noticed marks on either side of chassis where the board touched shield as it slid into place were not vertical. I'd inserted the board at a slight angle so the pins on molex were not in their proper spot but rather up against the PCB of translator. Shorting to ground some of them. Funny thing is I'd reinstalled it over and over while trouble shooting and didn't notice till it was mentioned about the molex pins in this great Drake group here.
> Got 10v reg, 5 v reg now all OK, no transistor heating...now on to the next problem with this TR7 of mine! No Rx 10v going to 2nd IF/audio board. I'll start on that in a day or two, life gets in the way of hamming fun sometimes!
>
> Thanks again everyone,
> 73,
> Paul
> WA6IAF
>

6050. Re: [DrakeRadio] Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 21:36:44 UTC
From: Don Cunningham
Topic: 5964 Message: 6050

William,
From your schematic, disreguard the green wire and the insulator does nothing to worry about. I would wire as follows:

1. Hook the red wire to the "T" (Tip) on the connector for PTT

2. Hook the white to the "R" (Ring) on the connector for audio

3. Hook BOTH the shield and the black wire that is left to the "S" (Sleeve) for grounds for both audio and PTT

This way, when the button is pushed, it grounds the PTT line and you can transmit because the PTT line will be grounded as Drake requires. ONE BIG problem though is you can NEVER use VOX this way, as the element is grounded when the ptt lever is not pushed in. Looks to me like the insulator is in the wrong place for using VOX (electronic keying likely in their drawings), as you would want the insulator between pins 1 and 2 then tie BOTH the green wire and the white wire together for audio to work both for VOX and PTT. If anyone else reads this differently, PLEASE chime in. I only jumped in because William was getting no help at all.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6051. Re: Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 22:01:29 UTC
From: wb1ker
Topic: 5964 Message: 6051

Thanks Don!

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> William,
> From your schematic, disreguard the green wire and the insulator does nothing to worry about. I would wire as follows:
>
> 1. Hook the red wire to the "T" (Tip) on the connector for PTT
>
> 2. Hook the white to the "R" (Ring) on the connector for audio
>
> 3. Hook BOTH the shield and the black wire that is left to the "S" (Sleeve) for grounds for both audio and PTT
>
> This way, when the button is pushed, it grounds the PTT line and you can transmit because the PTT line will be grounded as Drake requires. ONE BIG problem though is you can NEVER use VOX this way, as the element is grounded when the ptt lever is not pushed in. Looks to me like the insulator is in the wrong place for using VOX (electronic keying likely in their drawings), as you would want the insulator between pins 1 and 2 then tie BOTH the green wire and the white wire together for audio to work both for VOX and PTT. If anyone else reads this differently, PLEASE chime in. I only jumped in because William was getting no help at all.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

6052. Re: Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 22:10:48 UTC
From: wb1ker
Topic: 5964 Message: 6052

To be sure I have it correct, like this:

http://i247.photobucket.com/albums/gg126/perzaklie/electronicwiring_MOD.jpg

--- In DrakeRadio@yahoogroups.com, "wb1ker" <wb1ker@...> wrote:
>
> Thanks Don!
>
>
>
> --- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@> wrote:
> >
> > William,
> > From your schematic, disreguard the green wire and the insulator does nothing to worry about. I would wire as follows:
> >
> > 1. Hook the red wire to the "T" (Tip) on the connector for PTT
> >
> > 2. Hook the white to the "R" (Ring) on the connector for audio
> >
> > 3. Hook BOTH the shield and the black wire that is left to the "S" (Sleeve) for grounds for both audio and PTT
> >
> > This way, when the button is pushed, it grounds the PTT line and you can transmit because the PTT line will be grounded as Drake requires. ONE BIG problem though is you can NEVER use VOX this way, as the element is grounded when the ptt lever is not pushed in. Looks to me like the insulator is in the wrong place for using VOX (electronic keying likely in their drawings), as you would want the insulator between pins 1 and 2 then tie BOTH the green wire and the white wire together for audio to work both for VOX and PTT. If anyone else reads this differently, PLEASE chime in. I only jumped in because William was getting no help at all.
> > 73,
> > Don, WB5HAK
> >
> > [Non-text portions of this message have been removed]
> >
>

6053. Re: [DrakeRadio] Re: Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 22:21:59 UTC
From: Don Cunningham
Topic: 5964 Message: 6053

Yes, but just remember, it will only work with PTT, not with VOX. That's my preference anyway, so wouldn't bother me, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6054. Re: Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 22:28:59 UTC
From: wb1ker
Topic: 5964 Message: 6054

Good. I just want to be sure I don't smoke something the first time I fire it up. PTT is fine with me as well. I really appreciate all the assistance!

73
William
WB1KER

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> Yes, but just remember, it will only work with PTT, not with VOX. That's my preference anyway, so wouldn't bother me, hi.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

6055. Re: [DrakeRadio] Re: Microphone Hookup Assistance Please

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-15 22:38:39 UTC
From: Don Cunningham
Topic: 5964 Message: 6055

You are welcome. Hope it helps.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6056. Wante MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 14:40:19 UTC
From: ko1h
Topic: 6056 Message: 6056

HI all, Getting back into my Drake gear. T4/R4. Looking for a MS-4 in working condition. Let me know what you have and asking price.

Thanks de John ko1h

[Non-text portions of this message have been removed]

6057. Keying relay replacement???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 13:49:04 UTC
From: hglent
Topic: 6057 Message: 6057

I have a Drake T4XB that has had some "creative tuning" done on the keying relay. Where do I find a replacement relay for this rig. Mouser, Digi Key, Newark?? Part number?

Any help is appreciated.

I have had this rig since 1975. I have sold it and bought it back 3 times, so it has really covered a lot of ground.

Again, the help is appreciated.

TNX es 73

Paul K.
WA0BAG

6058. Re: [DrakeRadio] Keying relay replacement???

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 15:19:22 UTC
From: Garey Barrell
Topic: 6057 Message: 6058

Paul -

I don't know of a direct replacement for the 'wired in' relay in the "B". Drake sold a 'kit'
consisting of a small PC board and relay socket to accept the P&B R10-E1-Y4-V2.5 relay used in later
models. Unfortunately, those are no longer available. I have reworked an artwork for the board,
but the project got put aside. The board is essentially a way to spread out the very tight relay
socket connections to terminals around the edge of the board. There are a LOT of wires going to that
relay, and of course the wires involved are all the extremely heat sensitive hook-up wire used by
Drake, so anything that 'spreads' them out is helpful. Another list member made a simple bracket out
of PC board material to accept the relay socket, but I haven't heard back re a 'final' installation.

The B-Line relay is only a three-pole double-throw type as opposed to the 4PDT in the newer models,
and it may be possible to select a wired-in relay from Mouser, Digi-Key, etc., but the enclosed,
plug-in relay is a nice thought! :-)

Let us know 'your' solution.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

hglent wrote:
> I have a Drake T4XB that has had some "creative tuning" done on the keying relay. Where do I find a replacement relay for this rig. Mouser, Digi Key, Newark?? Part number?
>
> Any help is appreciated.
>
> I have had this rig since 1975. I have sold it and bought it back 3 times, so it has really covered a lot of ground.
>
> Again, the help is appreciated.
>
> TNX es 73

>
> Paul K.
> WA0BAG
>

6059. TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 16:07:16 UTC
From: Paul Horvitz
Topic: 6045 Message: 6059

Garey,
The board sure did feel right while plugging it in. I could feel the pins being grabbed and a slight resistance while sliding it in as those wipers inside the connector made contact. Hopefully a live and learn experience!

The TR7 is new to me and I'm enjoying getting to know it, don't understand the complaints I hear others have about the boards being plug in, I like the construction of this rig. Always wanted one, when they first came out they were too expensive for me though. Used to have both the B line and C line, liked the B line better really, for casual rag chewing on CW and SSB, which is mostly what I do when on the air and not fooling with rigs or antennas.

--->Transistor Q307, a 2N4402 has a shorted junction on it! Thank you, I hadn't even begun reading up in the service manual about how that 10v Rx voltage got switched, came to be, etc. Probably would have spent hours reading before I discovered it's on the Tx driver board so you saved me much time with that. I poked around measuring a few other components in associated circuitry and all looks well.
So now I get to go out to the storage shed, finally organise the transistor collection out there and while I'm at it, look for a good one to go in the TR7.
Wish my Huntron Tracker still worked! That was such a sweet diagnostics tool once I'd learned to interpret the "signatures" I'll have to repair/replace it. The CRT went south. Have to find it first...storage shed again.

I'll post again when that replacement transistor is soldered in and let you know the results, in 5 or 7 days.

73,
Paul
WA6IAF

[Non-text portions of this message have been removed]

6060. Re: [DrakeRadio] Wante MS-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 16:09:58 UTC
From: K4GM-George
Topic: 6056 Message: 6060

I have one with a slight bend in the frame because someone shipped it to me with an AC-4 still screwed inside! Price : $35. If you want one in great shape I have it for $90. Have others in between. You pay shipping or pick up. Just moved and had no idea how much Drake stuff I have collected over the years until I had to pack it. Am thinning the herd.

George K4GM

On 11/16/2011 9:40 AM, ko1h wrote:
>
> HI all, Getting back into my Drake gear. T4/R4. Looking for a MS-4 in
> working condition. Let me know what you have and asking price.
>
> Thanks de John ko1h
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

6061. Re: [DrakeRadio] TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 18:27:29 UTC
From: Garey Barrell
Topic: 6045 Message: 6061

Paul -

Yeah, they're pretty tricky! :-)

The only problem with the plug-in board system, especially in solid-state gear, is that only a minor
corrosion on a pin can kill the radio. I'd say that probably 90% of the 'broken' TR-7s can be fixed
by unplugging and replugging the boards and cables to get through that oxidation. You will not find
plug-ins on any piece of critical equipment unless they are absolutely necessary. At NASA 50+ years
ago any connectors that HAD to be there were gold plated, hermetically sealed, etc., etc. We only
put connectors where there was NO other option. I don't recall the exact number, but something
like every connector interface increased the failure rate by a fractional percentage.

I prefer the B-Line as well. It's not going to survive in the middle of a low band contest like a
C-Line will, but you can listen to the B audio all day without getting a headache! I also prefer
the gentler slopes of the L/C filter as I like to know what's going on around my frequency.

Those 10R and 10T switches are cleverly tucked away! Probably one of the last three or four places
you would be inclined to look for them. A 2N3906 will work fine in place of the 4402. Most any PNP
switching transistor will do. Watch for possible lead arrangement variations.!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Paul Horvitz wrote:
> Garey,
> The board sure did feel right while plugging it in. I could feel the pins
> being grabbed and a slight resistance while sliding it in as those wipers
> inside the connector made contact. Hopefully a live and learn experience!
>
> The TR7 is new to me and I'm enjoying getting to know it, don't understand
> the complaints I hear others have about the boards being plug in, I like
> the construction of this rig. Always wanted one, when they first came out
> they were too expensive for me though. Used to have both the B line and C

> line, liked the B line better really, for casual rag chewing on CW and SSB,
> which is mostly what I do when on the air and not fooling with rigs or
> antennas.
>
> --->Transistor Q307, a 2N4402 has a shorted junction on it! Thank you, I
> hadn't even begun reading up in the service manual about how that 10v Rx
> voltage got switched, came to be, etc. Probably would have spent hours
> reading before I discovered it's on the Tx driver board so you saved me
> much time with that. I poked around measuring a few other components in
> associated circuitry and all looks well.
> So now I get to go out to the storage shed, finally organise the transistor
> collection out there and while I'm at it, look for a good one to go in the
> TR7.
> Wish my Huntron Tracker still worked! That was such a sweet diagnostics
> tool once I'd learned to interpret the "signatures" I'll have to
> repair/replace it. The CRT went south. Have to find it first...storage shed
> again.
>
> I'll post again when that replacement transistor is soldered in and let you
> know the results, in 5 or 7 days.
>
> 73,
> Paul
> WA6IAF
>
>

6062. Re: [DrakeRadio] TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-16 19:20:50 UTC
From: Don Cunningham
Topic: 6045 Message: 6062

That's just another reason chalked up to us needing the "TR7 troubleshooting notes from Garey" CD or paper version, AND I'll still volunteer to buy the first set, hi hi. You seem to "know" all these little hints that we have to read hours to find. Oh well, I've bugged you enough about that.

We SHOULD tell Paul of the nice extender board set offered by one of our list members that makes troubleshooting MUCH simpler. Bob Rolfness, W7AVK, makes a nice seet MUCH cheaper than the "original" ones that prices are skyrocketing on "the auction place". Bob can be reached at rsrolfne@... . No connection, except to say that the boards are first rate and are a real help in working on these things.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6063. Re: TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-17 17:34:30 UTC
From: querencias
Topic: 6045 Message: 6063

In fact, I'm willing to pay for the TR-7 CD in advance...

Surely do want to see this come to pass. The 4 Series, 2-B and SPR-4, FS-4 CD materials are superlative and the Drake owner's best friend. Thanks again, Gary.

73 de KT6L

--- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@...> wrote:
>
> That's just another reason chalked up to us needing the "TR7 troubleshooting notes from Garey" CD or paper version, AND I'll still volunteer to buy the first set, hi hi. You seem to "know" all these little hints that we have to read hours to find. Oh well, I've bugged you enough about that.
>
> We SHOULD tell Paul of the nice extender board set offered by one of our list members that makes troubleshooting MUCH simpler. Bob Rolfness, W7AVK, makes a nice seet MUCH cheaper than the "original" ones that prices are skyrocketing on "the auction place". Bob can be reached at rsrolfne@... . No connection, except to say that the boards are first rate and are a real help in working on these things.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>

6064. Drake TR-7 CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-17 19:35:18 UTC
From: Garey Barrell
Topic: 6064 Message: 6064

OK, I'm weakening..... I keep getting requests for a CD for the TR-7. I'm really not sure why,
since the Drake Service manual is more than adequate for servicing these radios.

There were 'lots' of requests for a CD for the R-4A / T-4X pair a few years ago, and against my
better judgement I developed TWO CDs, one for each of the drastically different models of the R-4A.
Approximately 20 copies have sold of both combined. So you can see why I'm a little gun-shy! :-)

So. Being a little smarter (not much, I'm typing this...,) I'm asking for input on what YOU think
should be included in a CD for the TR-7. The Drake manual already has complete parts lists, and
photos of the boards with parts keyed to the list. Since I see this as the central value of MY CDs,
I'm coming up short for something to differentiate MY CD from Drake's manual.

Of course the other question would be what price range would you expect this CD to be in? The Drake
Service Manual sells for about $50 these days, and there is an aftermarket CD version for about $10
and a print version for about $20. Consider that making a CD similar to the 4- Line CDs would
require pretty much complete destruc.... er, dis-assembly of a TR-7.

Thoughts?? Direct to <k4oah@...> please....

--
73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

6065. Re: Drake TR-7 CD

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-17 23:20:57 UTC
From: Craig Roberts
Topic: 6064 Message: 6065

For $65.00 I'd happily purchase a CD containing step-by-step instructions for troubleshooting common problems, replacing PIN diodes, installing new finals and other opeations that require some disassembly and may not be apparent to the less talented of us.

TNX and 73!

Craig
W3CRR

6066. Re: TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-18 16:43:36 UTC
From: Paul Horvitz
Topic: 6045 Message: 6066

Thanks for the tip on those extender boards Don. I looked for some a while back, deemed them too pricey (at that big $$$ auction web site I have a love hate relationship with) at the moment. Will look into these you mention.

I got impatient waiting for those 2n4402 transistors to arrive so dug through "spare parts" junque pile and found some suitable replacements in an old telephone answering machine, scavenged them and installed in my TR7. Now have 10v reg Rx runniing, AGC, Rx audio etc. !!! Am going to pad the headphone jack...way too much audio going to my sensitive head phones, do a mod to give more vox gain as it has to be cranked up all the way and is still not enough, then put the rig back in service, hopefully today.

73,
Paul
WA6IAF

--- In DrakeRadio@yahoogroups.com, "querencias" <tuquerencia@...> wrote:
>
>
>
>
>
> In fact, I'm willing to pay for the TR-7 CD in advance...
>
> Surely do want to see this come to pass. The 4 Series, 2-B and SPR-4, FS-4 CD materials are superlative and the Drake owner's best friend. Thanks again, Gary.
>
> 73 de KT6L
>
>
> --- In DrakeRadio@yahoogroups.com, "Don Cunningham" <donc@> wrote:
> >
> > That's just another reason chalked up to us needing the "TR7 troubleshooting notes from Garey" CD or paper version, AND I'll still volunteer to buy the first set, hi hi. You seem to "know" all these little hints that we have to read hours to find. Oh well, I've bugged you enough about that.
> >
> > We SHOULD tell Paul of the nice extender board set offered by one of our list members that makes troubleshooting MUCH simpler. Bob Rolfness, W7AVK, makes a nice seet MUCH cheaper than the "original" ones that prices are skyrocketing on "the auction place". Bob can be reached at rsrolfne@ . No connection, except to say that the boards are first rate and are a real help in working on these things.
> > 73,
> > Don, WB5HAK
> >
> > [Non-text portions of this message have been removed]
> >

>

6067. Re: [DrakeRadio] Re: TR7 Troubles wrap-up

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-18 18:15:20 UTC
From: Don Cunningham
Topic: 6045 Message: 6067

Paul,
Drake put a 100k resistor (or close) in their headphones in series with the "hot" lead to solve that volume problem. I usually put one inside the phone plug on my headphones so the rig is unmodified. Works either way, but the next owner may have different headphones and work a long time to figure out why they don't work. Just Don's way though, not necessarily right, hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6068. R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 07:58:27 UTC
From: Bill
Topic: 1070 Message: 6068

Hi. I'm looking for a good condition R-4B.

If you have one you would like to sell, please drop me a line with the particulars.

73, Bill , k3waw
<http://groups.yahoo.com/group/DrakeRadio/k3waw@...>

[Non-text portions of this message have been removed]

6069. Re: [DrakeRadio] R-4B

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 10:58:59 UTC
From: Dan Galligan
Topic: 1070 Message: 6069

Bill, if you have your heart set on an R-4B, I understand. But, just to throw it out there, I have a blind friend, K6DXN, who has a nice shape 2B with the 2A Q-Multiplier that he wants to sell, and I offered to help him sell it. So, I thought I would put it out there, that the set up is available, to anyone who might want it.If you, or anyone else, might be interested in It.

73 all,
Dan
W3RXO/W6
On Nov 18, 2011, at 11:58 PM, Bill wrote:

Hi. I'm looking for a good condition R-4B.

If you have one you would like to sell, please drop me a line with the particulars.

73, Bill , k3waw
<http://groups.yahoo.com/group/DrakeRadio/k3waw@...>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

6070. FS: Drake R8A

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 11:59:49 UTC
From: Steve Lare
Topic: 6070 Message: 6070

I have for sale a very nice Drake R8A receiver.
Original manual and has the version 6 EPROM.

$785.00 + $20.00 shipping.

Steve Lare
Holland, MI
USA

6071. Re: Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 19:21:06 UTC
From: facsmart
Topic: 4129 Message: 6071

I'm doing one now on a TR-4, but have run into a problem, no where in the directions does it tell you what to do with the choke that comes off C90. The directions just tell you to re-solder the choke that goes to the plate cap. Help!

--- In DrakeRadio@yahoogroups.com, "joelweder" <jweder@...> wrote:
>
>
>
> Hi folks,
>
> I've been cleaning up my TR-3, after pulling it out of storage. Replaced my old power supply with the AC-4 power supply kit. After I proved the rig worked normally, I decided to move on to the TR-4 relay kit. I bought it a few years ago but have forgotten where. (maybe on eBay?)
>
> I've run into a problem with this kit and am hoping that someone else who's done this already might have a thought or two about how to proceed. I am guessing the kit was designed by John Kriner KA8GSP, but the instruction sheet has no contact information.
>
> The circuit board that comes with the kit is supposed to slide down over six feedthrough terminals and sit in the L shaped bracket that held the old relay. (and holds the SO-239)
>
> The problem is that the board is just a little bit too long, or perhaps the hole placement isn't quite right. Once I get the first few feedthrough terminals thru the holes in the board, the board is jammed against the L bracket (near L9) and is still up at about a 30 degree angle.
>
> I can see that the holes need to be maybe 1/8" closer to the relay socket. My options are to drill out the holes (and possibly mess up the traces on the bottom of the board), try to bend the thick and possibly fragile terminals, or try to move the side of the L bracket closest to L9. (which might cause interaction with L9, or at the least the results could be ugly!)
>
> It's been quite a while since I bought this kit but I had thought it was supposed to work with the TR-3. Any thoughts from someone who's done this before would be greatly appreciated!
>
> Joel
> VE6EI
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@> wrote:
> >
> > Mike -
> >

> > Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has
> > any of them left or not. Small PC board that mounts over the
> > feedthrough insulators of the old relay, and has the 'standard' P & B
> > plug-in relay, R10-E1-Y4-V2.5k.
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> >
> > w5rkl wrote:
> > > Anyone know of a replacement relay for the T4XB?
> > >
> > > 73s
> > > Mike
> > > W5RKL
> > >
> > >
> >
>

6072. Re: [DrakeRadio] Re: Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 20:11:32 UTC
From: Garey Barrell
Topic: 4129 Message: 6072

The RF Choke, RFC8, is removed. The connection from C90 goes directly to the relay socket.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

facsmart wrote:
> I'm doing one now on a TR-4, but have run into a problem, no where in the directions does it tell you what to do with the choke that comes off C90. The directions just tell you to re-solder the choke that goes to the plate cap. Help!
>
> --- In DrakeRadio@yahoogroups.com, "joelweder"<jweder@...> wrote:
>>
>>
>> Hi folks,
>>
>> I've been cleaning up my TR-3, after pulling it out of storage. Replaced my old power supply with the AC-4 power supply kit. After I proved the rig worked normally, I decided to move on to the TR-4 relay kit. I bought it a few years ago but have forgotten where. (maybe on eBay?)
>>
>> I've run into a problem with this kit and am hoping that someone else who's done this already might have a thought or two about how to proceed. I am guessing the kit was designed by John Kriner KA8GSP, but the instruction sheet has no contact information.
>>
>> The circuit board that comes with the kit is supposed to slide down over six feedthrough terminals and sit in the L shaped bracket that held the old relay. (and holds the SO-239)
>>
>> The problem is that the board is just a little bit too long, or perhaps the hole placement isn't quite right. Once I get the first few feedthrough terminals thru the holes in the board, the board is jammed against the L bracket (near L9) and is still up at about a 30 degree angle.
>>
>> I can see that the holes need to be maybe 1/8" closer to the relay socket. My options are to drill out the holes (and possibly mess up the traces on the bottom of the board), try to bend the thick and possibly fragile terminals, or try to move the side of the L bracket closest to L9. (which might cause interaction with L9, or at the least the results could be ugly!)
>>
>> It's been quite a while since I bought this kit but I had thought it was supposed to work with the TR-3. Any thoughts from someone who's done this before would be greatly appreciated!
>>

>> Joel
>> VE6EI
>>
>>
>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>> Mike -
>>>
>>> Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has
>>> any of them left or not. Small PC board that mounts over the
>>> feedthrough insulators of the old relay, and has the 'standard' P& B
>>> plug-in relay, R10-E1-Y4-V2.5k.
>>>
>>> 73, Garey - K4OAH
>>> Glen Allen, VA
>>>
>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs
>>> <www.k4oah.com>
>>>
>>>
>>> w5rkl wrote:
>>>> Anyone know of a replacement relay for the T4XB?
>>>>
>>>> 73s
>>>> Mike
>>>> W5RKL
>>>>
>>>>

6073. Re: [DrakeRadio] Re: Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 20:34:19 UTC
From: Ted Peckler
Topic: 4129 Message: 6073

That should have been explained in the instructions, as I got it all installed and found I had the extra part. I toasted that board getting it back out, I order another, and in the mean time I bread boarded a new board for the relay.
Thank you, I will remove the choke.

--- On Sat, 11/19/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@mindspring.com>
Subject: Re: [DrakeRadio] Re: Relay replacement for TR-3
To: DrakeRadio@yahoogroups.com
Date: Saturday, November 19, 2011, 12:11 PM

The RF Choke, RFC8, is removed. The connection from C90 goes directly to the relay socket.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

facsmart wrote:

> I'm doing one now on a TR-4, but have run into a problem, no where in the directions does it tell you what to do with the choke that comes off C90. The directions just tell you to re-solder the choke that goes to the plate cap. Help!

>

> --- In DrakeRadio@yahoogroups.com, "joelweder"<jweder@...> wrote:

>>

>>

>> Hi folks,

>>

>> I've been cleaning up my TR-3, after pulling it out of storage. Replaced my old power supply with the AC-4 power supply kit. After I proved the rig worked normally, I decided to move on to the TR-4 relay kit. I bought it a few years ago but have forgotten where. (maybe on eBay?)

>>

>> I've run into a problem with this kit and am hoping that someone else who's done this already might have a thought or two about how to proceed. I am guessing the kit was designed by John Kriner KA8GSP, but the instruction sheet has no contact information.

>>

>> The circuit board that comes with the kit is supposed to slide down over six feedthrough terminals and sit in the L shaped bracket that held the old relay. (and holds the SO-239)

>>

>> The problem is that the board is just a little bit too long, or perhaps the hole placement isn't quite right. Once I get the first few feedthrough terminals thru the holes in the board, the board is jammed against the L bracket (near L9) and is still up at about a 30 degree angle.

>>

>> I can see that the holes need to be maybe 1/8" closer to the relay socket. My options are to drill out the holes (and possibly mess up the traces on the bottom of the board), try to bend the thick and possibly fragile terminals, or try to move the side of the L bracket closest to L9. (which might cause interaction with L9, or at the least the results could be ugly!)

>>

>> It's been quite a while since I bought this kit but I had thought it was supposed to work with the TR-3. Any thoughts from someone who's done this before would be greatly appreciated!

>>

>> Joel

>> VE6EI

>>

>>

>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:

>>> Mike -

>>>

>>> Best bet is the Drake 'upgrade' kit. I don't know if John Kriner has

>>> any of them left or not. Small PC board that mounts over the

>>> feedthrough insulators of the old relay, and has the 'standard' P& B

>>> plug-in relay, R10-E1-Y4-V2.5k.

>>>

>>> 73, Garey - K4OAH

>>> Glen Allen, VA

>>>

>>> Drake 2-B, 4-B, C-Line& TR-4/C Service Supplement CDs

>>> <www.k4oah.com>

>>>

>>>

>>> w5rkl wrote:

>>>> Anyone know of a replacement relay for the T4XB?

>>>>

>>>> 73s

>>>> Mike

>>>> W5RKL

>>>>

>>>>

[Non-text portions of this message have been removed]

6074. Re: [DrakeRadio] Re: Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 21:25:22 UTC
From: Garey Barrell
Topic: 4129 Message: 6074

Ted -

It's been a while since I did one of those..... I had to go look at the Drake instructions, which
come with the board, to remember that RFC. I agree, it should have been specified.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Ted Peckler wrote:
> That should have been explained in the instructions, as I got it all installed and found I had the extra part. I toasted that board getting it back out, I order another, and in the mean time I bread boarded a new board for the relay.
> Thank you, I will remove the choke.
>
> --- On Sat, 11/19/11, Garey Barrell<k4oah@...> wrote:
>
> From: Garey Barrell<k4oah@...>
> Subject: Re: [DrakeRadio] Re: Relay replacement for TR-3
> To: DrakeRadio@yahoogroups.com
> Date: Saturday, November 19, 2011, 12:11 PM
>
>
> The RF Choke, RFC8, is removed. The connection from C90 goes directly to the relay socket.
>
> 73, Garey - K4OAH
> Glen Allen, VA
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
>
> facsmart wrote:
>
>> I'm doing one now on a TR-4, but have run into a problem, no where in the directions does it tell you what to do with the choke that comes off C90. The directions just tell you to re-solder the choke that goes to the plate cap. Help!

6075. Re: [DrakeRadio] Re: Relay replacement for TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-19 22:45:18 UTC
From: Ted Peckler
Topic: 4129 Message: 6075

Well so far the home brew board is working, I have receive and plate current, will see if it loads.

--- On Sat, 11/19/11, Garey Barrell <k4oah@mindspring.com> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: Relay replacement for TR-3
To: DrakeRadio@yahoogroups.com
Date: Saturday, November 19, 2011, 1:25 PM

Ted -

It's been a while since I did one of those..... I had to go look at the Drake instructions, which

come with the board, to remember that RFC. I agree, it should have been specified.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

Ted Peckler wrote:

> That should have been explained in the instructions, as I got it all installed and found I had the extra part. I toasted that board getting it back out, I order another, and in the mean time I bread boarded a new board for the relay.

> Thank you, I will remove the choke.

>

> --- On Sat, 11/19/11, Garey Barrell<k4oah@...> wrote:

>

> From: Garey Barrell<k4oah@mindspring.com>

> Subject: Re: [DrakeRadio] Re: Relay replacement for TR-3

> To: DrakeRadio@yahoogroups.com

> Date: Saturday, November 19, 2011, 12:11 PM

>

>

> The RF Choke, RFC8, is removed. The connection from C90 goes directly to the relay socket.

>

> 73, Garey - K4OAH

> Glen Allen, VA

> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

> and TR-4/C Service Supplement CDs

> <www.k4oah.com>

>

>

>

> facsmart wrote:

>

>> I'm doing one now on a TR-4, but have run into a problem, no where in the directions does it tell you what to do with the choke that comes off C90. The directions just tell you to re-solder the choke that goes to the plate cap. Help!

[Non-text portions of this message have been removed]

6076. Drake TR-4 volume very low

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-21 00:49:58 UTC
From: facsmart
Topic: 6076 Message: 6076

I put in the relay kit, all was working, put in a new three stage cap, all was working, today low volume, have to turn up the AF gain full open. I put in a new AF gain pot, still the same, all tubes are good, replaced the 2 .01 caps on board 5. Where do I go now

KI6WIK Ted

6077. Re: Drake TR-4 volume very low

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-21 02:03:03 UTC
From: facsmart
Topic: 6076 Message: 6077

Found it, bad headphone jack. Now to get rid of the AC hum on transmit.

--- In DrakeRadio@yahoogroups.com, "facsmart" <facsmart@...> wrote:
>
> I put in the relay kit, all was working, put in a new three stage cap, all was working, today low volume, have to turn up the AF gain full open. I put in a new AF gain pot, still the same, all tubes are good, replaced the 2 .01 caps on board 5. Where do I go now
>
> KI6WIK Ted
>

6078. Drake 7077 Desk Mics

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-21 04:00:42 UTC
From: Ed Purvis
Topic: 6078 Message: 6078

Have two desk mics for Drake TR-7. Both work right and look very good. One has slightly darker PTT buttons. $75 for the white button one, $70 for the other, plus shipping. They will be packed well.

Ed WA4NJY
wa4njy@...

[Non-text portions of this message have been removed]

6079. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-21 20:16:05 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 6079

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /Astatic Microphone Wiring Handbook.pdf
Uploaded by : wa6rkn <WA6RKN@...>
Description : Astatic Wiring Manual, Thanks to W. Garrett, WB1KER

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/Astatic%20Microphone%20Wiring%20Handbook.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

wa6rkn <WA6RKN@...>

6080. Drake TR-4 volume very low

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-21 22:41:07 UTC
From: Bry Carling
Topic: 6076 Message: 6080

That's a great adventure Ted.

The next step is to find out WHERE The signal is disappearing. Possibly test all of the tubes
first to make sure nobody died.

Use an audio signal tracer and go back through the audio stages. Got anything there at the volume potentiometer?

Work your way back to the detector.

After that, as you delve into the detector and the i.f. stages, mixer etc. you are going to need
an RF detector of some kind. It can be a simple diode and resistor. ^here are some simple designs for an RF detector, that will turn it into audio for the signal tracer.

Tune in a strong AM station. Start poking. Problem should be easy to localize. BUT also check your AGC voltage to see if it is throttling everything back to low gain.

73 de AF4K, Bry

Posted by: "facsmart" facsmart@... facsmart
Date: Sun Nov 20, 2011 4:50 pm ((PST))

I put in the relay kit, all was working, put in a new three stage cap, all
was working, today low volume, have to turn up the AF gain full open. I
put in a new AF gain pot, still the same, all tubes are good, replaced the
2 .01 caps on board 5. Where do I go now

KI6WIK Ted

[Non-text portions of this message have been removed]

6081. TR-7 Level question

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 00:17:05 UTC
From: Gary Woods
Topic: 6081 Message: 6081

What should RF levels in and out of the selectivity (filter) board be on
CW, key down, normal output?
Tx is 20W max out, and Rx is proportionately punk. Datapoint: I put in
the optional AM filter several weeks before the problem appeared. I've
reseated modules in the area, including RF switching (I don't have the
noise blanker).
TIA,

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6082. Re: [DrakeRadio] Drake TR-4 volume very low

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 03:54:21 UTC
From: Ted Peckler
Topic: 6076 Message: 6082

I think its a bad wire, I'll be tracing it down.

--- On Mon, 11/21/11, Bry Carling <bcarling@...> wrote:

From: Bry Carling <bcarling@....com>
Subject: [DrakeRadio] Drake TR-4 volume very low
To: DrakeRadio@yahoogroups.com
Date: Monday, November 21, 2011, 2:41 PM

That's a great adventure Ted.

The next step is to find out WHERE The signal is disappearing. Possibly test all of the tubes

first to make sure nobody died.

Use an audio signal tracer and go back through the audio stages. Got anything there at the

volume potentiometer?

Work your way back to the detector.

After that, as you delve into the detector and the i.f. stages, mixer etc. you are going to need

an RF detector of some kind. It can be a simple diode and resistor. ^here are some simple

designs for an RF detector, that will turn it into audio for the signal tracer.

Tune in a strong AM station. Start poking. Problem should be easy to localize. BUT also

check your AGC voltage to see if it is throttling everything back to low gain.

73 de AF4K, Bry

Posted by: "facsmart" facsmart@... facsmart

Date: Sun Nov 20, 2011 4:50 pm ((PST))

I put in the relay kit, all was working, put in a new three stage cap, all

was working, today low volume, have to turn up the AF gain full open. I

put in a new AF gain pot, still the same, all tubes are good, replaced the

2 .01 caps on board 5. Where do I go now

KI6WIK Ted

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

6083. CW Offset using Drake C-Line Twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 03:29:18 UTC
From: k4swisscheese
Topic: 6083 Message: 6083

Hello group. I joined the group and searched the articles hoping to find some guidance, but so far have struck out.

Here is my situation. I just purchased an R-4C, T-4XC and MS-4/AC-4 combination. I am putting these on the air, temporarily side lining my Elecraft K3. Being primarily a CW operator, I am used to having a side-tone set about 500 Hz; I found the 1 kHz sidetone too high pitched but knew I couldn't readily change it. For my first CW contact I was controllin both transmit and receive frequency with the R-4C VFO. I answered a CQ and had tuned to my normal preference of about 500 Hz ±. When the station answered me, he had moved and was now about the same as the higher pitched sidetone. Easy enough to figure out he had adjusted his frequency for a "normal" pitch in his receiver.

I didn't want to do the VFO waltz down the band, so I switched the VFO control to the T-4XC and adjusted the receive to match the tone I was hearing from the R-4C VFO. I then switched to separate VFOs and adjusted the R-4C to a reasonable tone and completed the QSO.

I go into excruciating detail to illustrate why I am seeking a simpler solution. I guess it's been too many years since I zero beated a transmitter VFO, and wonder if I do that if I still won't sound off frequency to the other station. Is there an easier solution, if so I'm all ears! Anyone have suggestions?

Thanks! Chuck K4SC South Carolina

6084. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 04:44:58 UTC
From: Paul Pollock
Topic: 5975 Message: 6084

To Jim Shorney N0UC,

1). Compressors were not mandated, only an average modulation percentage. How a user (or manufacturer) got there was HIS problem <grin>.

2). Speech Compressors
Whether RF speech compressors are more effective is a generally accepted conclusion with provisos. Is there a noise gate? Or is the acoustics of the studio quiet? If its' not, intelligibility will suffer. In normal practice; too much of a good thing is possible with a RF-speech compressor, it's just as much of a mistake as wrong use of an acoustic compressor. I just prefer the one that can be detected under abusive conditions easier. RF-speech compression is harder to tell for acoustic abuse, but the listener still has to deal with aunt Mary's mixmaster <grin>, just the same.

3). "You are absolutely correct that the sidebands are 50% of the amplitude, or 25% of the power, of the carrier at 100% modulation."

Wrong, Without the RF Power from a transmitter, there is no amplitude for a spectrum scope to measure. The Spectrum analyzer is showing us power, even though amplitude (which translates in this instance as voltage) is used for the waveform, because we are dealing with immutable math that dictates that a transmitter; that must operate at a given output impedance, at a given frequency, that operates in the ether, which produces what appears to have a certain amplitude, must be generated by a given power level. It's not amplitude, its' POWER. E*E/R remember (also works with E*I)? To get apparent amplitude to rise, with a fixed impedance and voltage (as we see in most transmitters), current must rise; which produces the requirement for an increase of total POWER (explains why the only difference between an FTDX-9000D and FTDX-9000MP transmitters, is power supply current.

I never said amplitude, you did, and are quasi-wrong for using it. Amplitude is something to describe a graphic picture on an O-scope (and only from a relative standpoint), but it has no place in any other radio discussion. All spectrum Scope traces are showing power, I don't care whether we are looking at a transmitter waveform, or whether we are looking at the output of a signal generator; it all boils down to power. E*E/R (or E*I) remember?
I pointed out already that a oscilloscopic wave form is useful, but does not tell us the structure. Because it can't show structure, we cannot apply a formula properly. An O-Scope composite view, is an erroneous view, in terms of finding out where the power is. Without the spectrum scope view, we have no tools whatever, in doing anything like a relevant calculation. While your discussion here is relevant for amplitude, amplitude is not in the offing, there is no amplitude to discuss; only power.

4). "Each sideband is 50% of the amplitude of the carrier. E^/R tells us that the power is 25% of the carrier, for each sideband. Again, that's taking each component as a single entity. Good. You are correct. But what happens when we add them together into a composite waveform?"

This is totally wrong. The spectrum scope is using voltages to show a display, but these are not showing amplitude. Because this is a transmitter, we cannot separate the amplitude

from power, the spectrum scope is showing an accurate analogy for power. Carrier is 50% of power, and modulated waveforms indicated in the spectrum scope is also 50% (25% each sideband) of power, not merely amplitude.

More importantly, and in reality, a modulated AM signal is not a composite signal at all; the spectrum scope shows us this accurately. It cannot be evaluated as a composite, as to power. Moreover, the fact that a modulated AM signal is NOT a composite; explains very well, why we get signal phasing, and distortion in a received skip signal. The separate parts of the signal get affected by the ionospheric dynamic; at different rates, times, moments, and spectrum points. This causes the carrier-to-sideband ratios to change. Even the sidebands can become distinctly larger/smaller vs the other sideband; and is a major reason why SWL folks prefer a Sync-AM detector system (when available) with selectable sidebands.

5). "Things change when you have only one sideband in AM SSB. If we limit the amplitude of the sideband to 50% of the carrier, as in DSB AM, we can only achieve 50% modulation. Therefore, the amplitude of the sideband must be the same as the amplitude of the carrier to get to 100%. The same reasoning regarding the phase adding and subtracting to create the modulation envelope in the time domain applies here."

Limiting the relative amplitude (using your argument) to 50% of the carrier, is missing the point. I just said that if 100% power was desired, the outputted sideband(s)would be able to make up the difference owing from loss of a previously available component. If we are using TR-4 AM, if carrier is 50%, the output sideband can be 50%. In DSB, the carrier is missing, so each sideband can be at 50% of total power; this will not tax the power supply, and the outputted RF will be 100% design maximum power, without distortion.

You keep thinking about AM as a composite, and it's not. Each component can either be sent or not, or even filtered, as we do with SSB generation. SSB is begun by balancing the carrier, driving it out of balance at audio frequencies, and then stripping off one sideband (in most radios. Phase filtering was used in early SSB transceivers, and contained no sideband filters of any sort, that either of us would recognize today). In C-Class plate AM, we actually use the final amp to mix an equally sized modulator output to make carrier AM, but it's no great task to strip off any part of the components. If we can precisely strip off a sideband, it would be no trouble at all to filter the carrier and leave the sidebands untouched (without a balance modulator). This is because each component is actually at a slightly different frequency domain, but happens to normally be in sync.

Conversationally, it is easy to look at almost any multiple waveform as a composite (depending on how we choose to observe it), but it doesn't mean that a multiple wave form IS a composite, especially when it behaves unlike a signal composite.

6). "You do have a slight math error there. The sidebands are 50% of the voltage amplitude of the carrier, or 25% of the power level, true. But that is referenced to the carrier as 100%, not 50%."

There was no error. I was pointing out that if a given transmitter is capable of 100-watts, and is hobbled to 25-watts carrier, total modulated AM PEP is 50-watts. The hobbling is caused by misinterpretation of power, as if modulated AM signal was a single composite, and it's not. There is nothing wrong with the reasoning, only the usage of a good math formula with bad assumptions.

7). "Sure you can. It's called a composite waveform. Look at it this way: a square wave is a composite waveform of a sine-wave and a bunch of it's harmonics. We can sure see that on a spectrum analyzer.

A square-wave is an excellent example of a composite wave-form. As you know, everything that gets distorted begins to resemble it. That does not create a situation where all multi-component wave-forms are composites. That is a false conclusion.
A true composite does not get bent when transmitted in the ether. A square-wave of any construction, will skip (refract) off the ionosphere and basically stay a square-wave (including its composite parts if any), just as a sine-wave will. But three(3) separate components that just happen to be emitted at a slightly different frequency (as a modulated AM signal is), will not skip properly, that is a fact (as any SWL doing AM listening can attest).

The entire point of this discussion is that the usage of the power formula on a modulated AM signal as if it were a composite BEING IN ERROR is the point. You just think it is not in error.

8). "A 100 Watt carrier and 25 watts in each sideband = 150 Watts. 25/150 = 16.67% of the total power is in each sideband. Holy cats, that's a 6:1 ratio! This gets better as I go along! 1500 / 6 = 250 Watts. If we go by the original 4:1 ratio that E^2/R on the composite waveform proves, 1500 / 4 = 375 Watts. Where have I heard that before? That's more like what can be arrived at empirically.

I never suggested that, and you know it. A 100-watt carrier would need two(2) 50-watt sidebands, which would make 200-watts total PEP. There's no confusion here. 375-watts stays wrong, no matter how you want to get there. E*E/R is a good formula, when used right. But in the case of modulated AM, it continues into the future (as used today) completely wrong. 375-watts continues to be wrong, because of this constant error. 1500-watt total available PEP will allow a clean 750-watt carrier, with clean 375-watt sidebands.

This continues to be fun, Jim. Thanks for the stimulating conversation <grin>!

-Paul Pollock
KD7BWB

6085. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 05:14:49 UTC
From: Jim Shorney
Topic: 5975 Message: 6085

On Mon, 21 Nov 2011 21:44:58 -0700, Paul Pollock wrote:

>A square-wave is an excellent example of a composite wave-form. As you know, everything that gets distorted begins to resemble it. That does not create a situation where all multi-component wave-forms are composites. That is a false conclusion.
>A true composite does not get bent when transmitted in the ether. A square-wave of any construction, will skip (refract) off the ionosphere and basically stay a square-wave (including its composite parts if any), just as a sine-wave will.

Wow, that one had me rolling on the floor. Really? That violates the laws of physics.

I give up, Paul. It's the composite waveform that does the work for us, and empircally matches up pretty well with that I've been saying. An awful lot of science and real world applications can't be wrong.

Here, Paul, is a page that puts your numbers in the proper context:

http://www.rf-amplifiers.com/index.php?topic=peak_power

It's got pictures, so everyone should understand.

It shows where your numbers are right, as are mine. Your mistake is in the math, and the assuption that spectrum analyzers are measuring power. They do not, they are a voltage display. Do you not understand how oscilloscopes work?

I weary of this game. See you around, it's been fun.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6086. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 05:39:46 UTC
From: Paul Pollock
Topic: 5975 Message: 6086

Hi Jim N0UC,

I read the page you sent me to. Correct for a carrier. I have no problem with their math, just your assessment of what it means. Not for modulated AM. There is no composite, looks like one on a O-Scope but is not. Laughing, rolling on the ground, does you no credit; you're still going to come out wrong on this.

I've dare'd college instructors to show me a waveform that demonstrates the composite modulated AM waveform, and they could not do it. Nobody can.

Until this stuff is air'd out correctly, modulated AM will continue to get short shift by folks like the FCC.

But, you are right, the conversation has gone down to he said, he said. Beside, it doesn't change my life in the slightest anyhow, I don't operate modulated carrier AM, never really wanted to. It was the discussion that mattered.

-Paul Pollock
KD7BWB

On Nov 21, 2011, at 10:14 PM, Jim Shorney wrote:

> On Mon, 21 Nov 2011 21:44:58 -0700, Paul Pollock wrote:
>
> >A square-wave is an excellent example of a composite wave-form. As you know, everything that gets distorted begins to resemble it. That does not create a situation where all multi-component wave-forms are composites. That is a false conclusion.
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>
> Wow, that one had me rolling on the floor. Really? That violates the laws of
> physics.
>
> I give up, Paul. It's the composite waveform that does the work for us, and
> empircally matches up pretty well with that I've been saying. An awful lot of
> science and real world applications can't be wrong.
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> Here, Paul, is a page that puts your numbers in the proper context:
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> http://www.rf-amplifiers.com/index.php?topic=peak_power
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> It's got pictures, so everyone should understand.
>
> It shows where your numbers are right, as are mine. Your mistake is in the
> math, and the assuption that spectrum analyzers are measuring power. They do
> not, they are a voltage display. Do you not understand how oscilloscopes work?

>
> I weary of this game. See you around, it's been fun.
>
> 73
>
> -Jim
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

[Non-text portions of this message have been removed]

6087. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 06:01:43 UTC
From: Jim Shorney
Topic: 5975 Message: 6087

On Mon, 21 Nov 2011 22:39:46 -0700, Paul Pollock wrote:

>I read the page you sent me to. Correct for a carrier. I have no problem with their math, just your assessment of what it means. Not for modulated AM. There is no composite, looks like one on a O-Scope but is not. Laughing, rolling on the ground, does you no credit; you're still going to come out wrong on this.
>
>I've dare'd college instructors to show me a waveform that demonstrates the composite modulated AM waveform, and they could not do it. Nobody can.

I just did, and so did the Empower web page. College instructors notwithstanding, the phasor diagram explains it perfectly. I suggest you go argue the point with the people that own that page. I'm sure their military, aerospace, and other customers would be very interested to learn that they are being sold a bill of goods. I'll wave when the black helicopters come for you.

I can't point out the errors in your math and assumptions any more clearly. You very cleverly skipped over some of my points, that says a lot. You can't change the laws of physics, you can't alter Ohm's law, you can't demodulate SSB with a spectrum analyzer, and you can't make 150%=50%. You say you don't operate AM, perhaps that's why you don't understand it.

Please direct any further discussion to the engineers at Empower. I'm sure they would love to hear from you.

73

-Jim

--
☐There☐s something out of place ☐ let☐s go and poke it with a stick.☐ ☐ The Doctor (Amy☐s Choice episode)

6088. AM, SSB, and VLC

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-22 06:24:25 UTC
From: Brenton Crowhurst
Topic: 5975 Message: 6088

You're gonna get a kick out of this, Jim.

http://forum.videolan.org/viewtopic.php?f=7&t=1163&p=4537

When it comes to how to win friends and influence people, our friend Paul has an M.O. with a history.

Hey, I hope you had fun with the contest over the weekend. Man, I can't stand the racket of all these contests every weekend. I think the only thing to do here is grab the bull by the horns and get involved!

I think I'll start by dropping in on the club station at VE6AO. I've seen their set up. That'll be some contest immersion for me.

6089. Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-23 19:26:02 UTC
From: hglent
Topic: 6089 Message: 6089

I have been fighting a low output problem on my T-4XB. The maximum power output I have been able to get is 50 Watts.

I have Installed the WB8VGE kit in the power supply, replace all tubes 1 by 1, replaced finals with a "matched pair." Installed Hayseed Hamfest ReCap kit, set the Bias per Page 14, Prg A, in Instruction Manual, did "Adjustment of RF & Mixer Stages" in Instruction Manual Pg's 37-38, taken all voltage measurement in the Instruction Manual Pg 33. The only problem I have identified is in the voltage readings. V-5 & 6, Pin 2, -35 VDC, should be -62 VDC Bias. The low Bias Voltage is present on all bands. The final replacement yielded the same results.

I have run out of ideas. Any one have suggestions as to what I look at next?

Please contact me off list as I only get the list in Digest Format. I will be working on this over the holiday weekend rather than being out there buying a new rig for my XYL. hi hi!

Paul K.
WA0BAG

6090. Re: [DrakeRadio] Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-23 19:47:22 UTC
From: Garey Barrell
Topic: 6089 Message: 6090

Paul -

Couple of questions.

1. Are both V5 and V6 'lit'?

2. What are you measuring output power with?

3. Good dummy load?

4. Plate current shown at maximum output?

Information to gather. What are the values and condition of R32 and R33? Value and condition of
R36? Voltage on Cathodes Pin 3 of V5 and V6 in TUNE mode?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

hglent wrote:
> I have been fighting a low output problem on my T-4XB. The maximum power output I have been able to get is 50 Watts.
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>
> Paul K.
> WA0BAG
>
>

6091. Re: [DrakeRadio] Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-23 21:24:07 UTC
From: Richard Knoppow
Topic: 6089 Message: 6091

----- Original Message -----
From: "hglent" <hglent@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 23, 2011 11:26 AM
Subject: [DrakeRadio] Low output power T-4XB

>I have been fighting a low output problem on my T-4XB. The
>maximum power output I have been able to get is 50 Watts.
>
> I have Installed the WB8VGE kit in the power supply,
> replace all tubes 1 by 1, replaced finals with a "matched
> pair." Installed Hayseed Hamfest ReCap kit, set the Bias
> per Page 14, Prg A, in Instruction Manual, did "Adjustment
> of RF & Mixer Stages" in Instruction Manual Pg's 37-38,
> taken all voltage measurement in the Instruction Manual Pg
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> readings. V-5 & 6, Pin 2, -35 VDC, should be -62 VDC
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> final replacement yielded the same results.
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> Please contact me off list as I only get the list in
> Digest Format. I will be working on this over the holiday
> weekend rather than being out there buying a new rig for
> my XYL. hi hi!
>
> Paul K.
> WA0BAG
>
How are you making these measurements? The voltage
charts specify an 11 megohm input VTVM. Most solid state
DVMs will do. If you use a passive VOM it may load the
circuit. Power out can be tricky, you need a good,
non-reactive dummy load of the right impedance (50 ohms) and
a good RF volt meter. I was getting low readings from my
T4XB at one point due to the resistor in my MJF dummy load
having changed value substantially. Also check the condition
of any cables you are using, a bad connector or bad
soldering can cause a mis-match that will give you a false
power reading. Know what you are measuring!

--
Richard Knoppow

Los Angeles
WB6KBL
dickburk@...

6092. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 00:56:04 UTC
From: Paul Pollock
Topic: 5975 Message: 6092

To Jim N0OC,

Hi Jim,

Nobody is changing the laws of physics, aside from understanding that physics has very few actual laws. The drawings I've been staring at for decades misses the point entirely. Modulation on these graphics (including what we see on an oscilloscope tuned to the modulation) does not show us reality, or real physics. It is truly an optical illusion. The carrier is not in fact being bent. The phasor discussions are a means of quantifying an effect that does not actually take place.

You can prove this point for yourself, by increasing the scope clock to sync the carrier, then slew the display any way you wish. This filters out the effects of audio from the display. I defy you to find a curve in the carrier. The carrier does not change, although it is easy to get fooled by looking at a audio-sync'd scope display. The apparent overtone is caused by the modulated waveform becoming the only thing the scope can reproduce properly, what is left is an overtone.

This point is even more clear when we use a digital spectrum analyzer and slew the display horizontally 45-degrees. We now see all three traces (almost looks like 3d display [very cool]), during modulated periods, and can clearly see the carrier straight as rifle shot.

Test it yourself. You need to lose the thought that modulation modifies carrier, because it doesn't. Carrier is a constant (aside from controlled-carrier, but we're not discussing that) .

I said I don't do AM, I've done a lot of it in the past. Putting thoughts in my head, and words in my mouth, is beyond bad manners in order to shutdown a piece of logical conversation that you might get out of your depth with.

There is no magic, no misunderstanding, and only truth. Carrier is a constant, the oscilloscope is lying, and anybody can prove it to himself by doing my example(s).

While the illusion is a useful one, and one of the few ways to calibrate a AM voice transmitter easily, it is still an illusion. This illusion is the only reason why we get this tale from technical discussions that use the formulas we've been discussing in error. The text on websites all over the world, has perpetuated this myth forever, and amounts to a discussion to describe an exception, because voice AM is unique in voice radio. 70 years ago, even I would have believed it, because the O-Scope was literally the only tool available to see a waveform. But it sees darkly, because it only has one spot to place, and blanks everything else.

Empower would love to talk about this with me. I'd win. Nothing against them, but they've bought this baloney too, and tried to explain this with gobbledygook. Plain and simple. Everybody who's seen a AM trace on a scope has tried to explain this away with gobbledygook. To this day millions of people continue to believe the gobbledygook without testing the hypothesis for themselves ".. they're smarter than me, they must know what they

are talking about ..." Baloney. This stuff is wrong, and nothing can change that.

Now I'm going to return your favor. Grow up, test the hypothesis, and get some truth. Don't depend on others to do your dirty work, test it yourself. Until then, your just another one of the millions who've bought into a lie. Anything else is purposeful ignorance.

I agree with you, the military could very well be very interested in buying hardware based on a lie. However, I've seen their stuff; they don't use Voice AM, because we both agree, it's not very efficient. I frankly don't think any military on Earth uses Voice AM. But the civilian world does, and many station engineers would like to know what you think you know. They operate on reality, and discussions of phasor motion and acceleration; and all the rest doesn't react on them much. They KNOW carrier does not modulate, they KNOW carrier is half of all power, and they KNOW modulation is half of all emitted power.

I've already tested this stuff until my eyes went far-sighted <grin>. Now I wear glasses. Couldn't believe the conclusion, but it is inescapable. Carrier does not modulate, it is a constant, and the math people have tried to describe this process with is misused, and even the point they are trying to describe uses data that is an illusion, and a myth. That's the truth.

-Paul Pollock
KD7BWB

On Nov 21, 2011, at 11:01 PM, Jim Shorney wrote:

> On Mon, 21 Nov 2011 22:39:46 -0700, Paul Pollock wrote:
>
> >I read the page you sent me to. Correct for a carrier. I have no problem with their math, just your assessment of what it means. Not for modulated AM. There is no composite, looks like one on a O-Scope but is not. Laughing, rolling on the ground, does you no credit; you're still going to come out wrong on this.
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> >I've dare'd college instructors to show me a waveform that demonstrates the composite modulated AM waveform, and they could not do it. Nobody can.
>
> I just did, and so did the Empower web page. College instructors
> notwithstanding, the phasor diagram explains it perfectly. I suggest you go
> argue the point with the people that own that page. I'm sure their military,
> aerospace, and other customers would be very interested to learn that they are
> being sold a bill of goods. I'll wave when the black helicopters come for you.
>
> I can't point out the errors in your math and assumptions any more clearly. You
> very cleverly skipped over some of my points, that says a lot. You can't change
> the laws of physics, you can't alter Ohm's law, you can't demodulate SSB with a
> spectrum analyzer, and you can't make 150%=50%. You say you don't operate AM,
> perhaps that's why you don't understand it.
>
> Please direct any further discussion to the engineers at Empower. I'm sure they
> would love to hear from you.
>
> 73
>
> -Jim

>
> --
> ?There?s something out of place ? let?s go and poke it with a stick.? ? The Doctor (Amy?s Choice episode)
>
>

[Non-text portions of this message have been removed]

6093. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 02:53:25 UTC
From: Richard Knoppow
Topic: 5975 Message: 6093

----- Original Message -----
From: "Paul Pollock" <kd7bwb@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Wednesday, November 23, 2011 4:56 PM
Subject: Re: [DrakeRadio] Drake TR-7 on AM question.

To Jim N0OC,

Hi Jim,

Nobody is changing the laws of physics, aside from understanding that physics has very few actual laws. The drawings I've been staring at for decades misses the point entirely. Modulation on these graphics (including what we see on an oscilloscope tuned to the modulation) does not show us reality, or real physics. It is truly an optical illusion. The carrier is not in fact being bent. The phasor discussions are a means of quantifying an effect that does not actually take place.

Here is F.E.Terman on the subject (1)
"The carrier wave is the same, irrespective of the presence3 or absence of modulation. Varying the amplitude of the radio wave mearely has the effect of generating the side bands, which are the art of the modulated wave that conveys the intelligence being transmitted. The carrier wave carries no information because it is not affected by the modulation." He then goes on to discuss the relative power in the sidebands. This requires reference to equations which are not easy to translate to text but essentially he states that at 100% modulation the power in the total signal will be 50% greater than that of the carrier so that one-third of the energy is in the sidebands.

1, _Radio Engineering_ 2nd Edition, Fredrick Emmons Terman, 1937, McGraw-Hill Book Company.

I think the same thing can be found in later editions and in many other texts.
A full mathematical analysis of amplitude modulation can be found elsewhere. Generally, the explanation of modulation given in popularized books is very oversimplfied. It is not really very intuitive.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

6094. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 07:37:06 UTC
From: Jim Shorney
Topic: 5975 Message: 6094

On Wed, 23 Nov 2011 18:53:25 -0800, Richard Knoppow wrote:

>Generally, the explanation of modulation
>given in popularized books is very oversimplfied. It is not
>really very intuitive.

Indeed, it's not. I had to look at a number of references to find all the information that I was looking for. In the end, it seems that both points are correct in the proper context.

Thanks for the comments.

73

-Jim
NU0C

--
Questionable management practices at the 146760.net web site?
http://radiojim.exofire.net/pages/Questions.html

6095. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 07:42:23 UTC
From: Jim Shorney
Topic: 5975 Message: 6095

On Wed, 23 Nov 2011 17:56:04 -0700, Paul Pollock wrote:

>Carrier is a constant (aside from controlled-carrier, but we're not discussing that) .

Paul, I never stated otherwise. You obviously don't have an understanding of what I have been trying to say. I've done the research and provided background to prove my points, which you conveniently ignore or mischaracterize. Come back when you can provide accurate information.

This discussion is over.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6096. Re: [DrakeRadio] Drake TR-7 on AM question.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 08:17:13 UTC
From: Jim Shorney
Topic: 5975 Message: 6096

On Thu, 24 Nov 2011 01:37:06 -0600, Jim Shorney wrote:

>Indeed, it's not. I had to look at a number of references to find all the
>information that I was looking for. In the end, it seems that both points are
>correct in the proper context.

Here's another one, from W8JI, who has been designing amplifiers for longer
than I have been a ham (and knows how to use lab equipment).

http://www.w8ji.com/cb_amplifiers_convert_ham.htm

"Pure 100% linear undistorted sine wave amplitude modulation has the following
power relationships:

Carrier power is 25% of peak envelope power, or if you prefer peak envelope
power is 4 times carrier power. A 1000-watt carrier is 4000 watts PEP with
undistorted 100% sine wave modulation.

Average modulated power output is 150% of carrier power. This is because
average audio modulation power is 50% of carrier power. A 1000-watt carrier is
1500 watts average power when 100% modulated with an undistorted sine wave.

RMS RF antenna current is 1.225 times unmodulated RF carrier current. A
1000-watt transmitter into a 50-ohm load is about 4.5 amperes unmodulated
carrier and 5.5 amperes load current when 100% modulated.

Peak RF output voltage when modulated is 2 times unmodulated carrier voltage. A
1000-watt carrier into 50 ohms is about 326 volts peak voltage and 652 volts
peak when 100% modulated."

Like I said, BOTH sets of numbers are correct IN THE PROPER CONTEXT. People
need to accept that and move on.

73

-Jim
NU0C

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn
for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6097. Re: Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 13:46:49 UTC
From: mvgilger
Topic: 6089 Message: 6097

Paul,
Besides checking the resistors that Garey suggested, please also check R38. Your meter might be giving you the wrong information in regards to your bias and output current. You also indicated that you had only performed the procedures on page 37-38. You also need to do your Carrier Osc., Filter match & Balanced modulator, and Neutralization procedures. So if you have not done procedures from page 37- 40, please do so. They all have an effect on power output, some more than others.

Good luck.
Mark

--- In DrakeRadio@yahoogroups.com, "hglent" <hglent@...> wrote:
>
> I have been fighting a low output problem on my T-4XB. The maximum power output I have been able to get is 50 Watts.
>
> I have Installed the WB8VGE kit in the power supply, replace all tubes 1 by 1, replaced finals with a "matched pair." Installed Hayseed Hamfest ReCap kit, set the Bias per Page 14, Prg A, in Instruction Manual, did "Adjustment of RF & Mixer Stages" in Instruction Manual Pg's 37-38, taken all voltage measurement in the Instruction Manual Pg 33. The only problem I have identified is in the voltage readings. V-5 & 6, Pin 2, -35 VDC, should be -62 VDC Bias. The low Bias Voltage is present on all bands. The final replacement yielded the same results.
>
> I have run out of ideas. Any one have suggestions as to what I look at next?
>
> Please contact me off list as I only get the list in Digest Format. I will be working on this over the holiday weekend rather than being out there buying a new rig for my XYL. hi hi!
>
> Paul K.
> WA0BAG
>

6098. Re: Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 15:41:10 UTC
From: ab4cz
Topic: 6089 Message: 6098

Paul, I ran across a similar problem while renovating a friend's T4X-B. In his case, the cathode current sense resistor R36 (2.7 Ohms) had increased in value to about 8.3 Ohms, which meant the indicated cathode current was about 3 times greater than the actual cathode current. Replacing the resistor with the correct value got the meter to read correctly and tuning up to the correct current now resulted in full power output. Check R38 with a good DVM and be sure to verify your meter's "short circuit" resistance. It's not unusual to have several hundred milliOhms of resistance in the test leads. When reading these low value resistors, this must be taken into account.

Good luck,
Jim
AB4CZ

--- In DrakeRadio@yahoogroups.com, "hglent" <hglent@...> wrote:
>
> I have been fighting a low output problem on my T-4XB. The maximum power output I have been able to get is 50 Watts.

> Paul K.
> WA0BAG
>

6099. F S- SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 16:58:47 UTC
From: Rich
Topic: 6099 Message: 6099

I have a SPR4 that just watches me when I'm on the ham radio.
I think it should go to a new home.
Please contact me off list for particulars.

Rich KC8HMJ

6100. T-4XB PA voltage in recieve

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 21:32:38 UTC
From: ki6nqt
Topic: 6100 Message: 6100

Good afternoon,

Hope everyone is having a nice Thanksgiving.
I need the receive voltage(no tone) at the pins of the PA tubes if anyone can help me.

Thanks,
Tim Ki6nqt
Suisun, CA

6101. Re: [DrakeRadio] T-4XB PA voltage in recieve

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 21:53:18 UTC
From: Garey Barrell
Topic: 6100 Message: 6101

Tim -

There is a complete voltage chart for ALL tubes in the manual. If you don't have a manual, _GET
ONE_. A tube type transmitter is NOT a VCR.

Improper operation can destroy all or part of the transmitter, cause a fire, etc., etc. Nothing good.

Voltages are approximate since in some cases power supplies are unloaded.

V5, Same for V6 except Pin 5 ~13 VAC, Pin 4 ~ 7VAC

Pin 1 ~260 VDC

2 ~ -62 VDC

3 ~ 85 VDC

4 ~ 0 VDC

5 ~ 7 VAC

6 ~ -62 VDC

7 ~260 VDC

8 0 VDC

9 0 VDC

Plate Cap. ~ 700 VDC

Happy Thanksgiving!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ki6nqt wrote:
> Good afternoon,
>
> Hope everyone is having a nice Thanksgiving.
> I need the receive voltage(no tone) at the pins of the PA tubes if anyone can help me.
>
> Thanks,

> Tim Ki6nqt
> Suisun, CA
>
>

6102. Re: T-4XB PA voltage in recieve

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-24 22:21:20 UTC
From: ki6nqt
Topic: 6100 Message: 6102

Hi Mr. Barrell,

Thanks for the reply.
I have a manual, shows only transmit voltages, I should have shared what I am trying to accomplish here.
According to my meter I am registering cathode current even in receive, turning the bias pot in receive will indicate change in the meter. Power supply has been reworked, bias controls current for idle current and when in receive current looks to be present. What does cut off the pa in receive? I am about to check plate current to see if maybe the meter circuit is wrong. Can Cathode current be sensed from the other tubes connected in circuit? It has been probably 20 years since I have been inside a VCR. :)
P.S. I also have your CD.

Thanks for listening,

Tim Stotenburg
Ki6nqt

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Tim -
>
> There is a complete voltage chart for ALL tubes in the manual. If you don't have a manual, _GET
> ONE_. A tube type transmitter is NOT a VCR.
>
> Improper operation can destroy all or part of the transmitter, cause a fire, etc., etc. Nothing good.
>
> Voltages are approximate since in some cases power supplies are unloaded.
>
> V5, Same for V6 except Pin 5 ~13 VAC, Pin 4 ~ 7VAC
>
> Pin 1 ~260 VDC
>
> 2 ~ -62 VDC
>
> 3 ~ 85 VDC
>
> 4 ~ 0 VDC
>
> 5 ~ 7 VAC
>
> 6 ~ -62 VDC
>
> 7 ~260 VDC

>
> 8 0 VDC
>
> 9 0 VDC
>
> Plate Cap. ~ 700 VDC
>
> Happy Thanksgiving!!
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> ki6nqt wrote:
> > Good afternoon,
> >
> > Hope everyone is having a nice Thanksgiving.
> > I need the receive voltage(no tone) at the pins of the PA tubes if anyone can help me.
> >
> > Thanks,
> > Tim Ki6nqt
> > Suisun, CA
> >
> >
>

6103. Re: Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-25 13:20:50 UTC
From: fred
Topic: 6089 Message: 6103

when checking low value resistors I prefer the simpson 260 over an auto ranging or switched DVM . I havo one of each of the dvm's and neither have a metre zero adjustment . with the 260 you can set the metre to zero before measuring the resistor and that compensates for any resistance in the leads .
andrew kd5pnt

--- In DrakeRadio@yahoogroups.com, "ab4cz" <AB4CZ@...> wrote:
>
> Paul, I ran across a similar problem while renovating a friend's T4X-B. In his case, the cathode current sense resistor R36 (2.7 Ohms) had increased in value to about 8.3 Ohms, which meant the indicated cathode current was about 3 times greater than the actual cathode current. Replacing the resistor with the correct value got the meter to read correctly and tuning up to the correct current now resulted in full power output. Check R38 with a good DVM and be sure to verify your meter's "short circuit" resistance. It's not unusual to have several hundred milliOhms of resistance in the test leads. When reading these low value resistors, this must be taken into account.
>
> Good luck,
> Jim
> AB4CZ
>
>
>
> --- In DrakeRadio@yahoogroups.com, "hglent" <hglent@> wrote:
> >
> > I have been fighting a low output problem on my T-4XB. The maximum power output I have been able to get is 50 Watts.
>
> > Paul K.
> > WA0BAG
> >
>

6104. Re: [DrakeRadio] Re: Low output power T-4XB

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-25 16:34:11 UTC
From: Jim Shorney
Topic: 6089 Message: 6104

On Fri, 25 Nov 2011 13:20:50 -0000, fred wrote:

>when checking low value resistors I prefer the simpson 260 over an auto ranging or switched DVM . I havo one of each of the dvm's and neither have a metre zero adjustment . with the 260 you can set the metre to zero before measuring the resistor and that compensates for any resistance in the leads .

Some of the Fluke models (my 8050A, for one) have a "relative" mode that will compensate for lead resistance. There are probably other higher-end brands that have similar features. You probably won't find them at Harbor Freight.... :)

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6105. R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 15:52:29 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6105

Hi all,

I am working on a R-7 which has a weird problem: all bands, in NORM position, work fine. But then, in AUX PROGRAM positions, they mainly refuse to work (from time to time, some of them work for a while). Thinking about faulty contacts I have removed, resoldered and reseated AUX7, DIGITAL CONTROL and DR7 boards but problem persists. BTW, SETBAND LED behaves correctly.

Is there any typical component fault which could cause this?

Thanks!

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

6106. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 16:04:50 UTC
From: Garey Barrell
Topic: 6105 Message: 6106

Hi Jose -

Check gate action and solder around U209 on Digital Control Board. Verify with heat or cold spray.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi all,
>
> I am working on a R-7 which has a weird problem: all bands, in NORM
> position, work fine. But then, in AUX PROGRAM positions, they mainly
> refuse to work (from time to time, some of them work for a while).
> Thinking about faulty contacts I have removed, resoldered and
> reseated AUX7, DIGITAL CONTROL and DR7 boards but problem persists.
> BTW, SETBAND LED behaves correctly.
>
> Is there any typical component fault which could cause this?
>
> Thanks!
>
> JOSE
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
> Radio and Test Equipment....... http://jvgavila.com
> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>
>
>

6107. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 16:16:22 UTC
From: Garey Barrell
Topic: 6105 Message: 6107

Jose -

Sorry, I was looking at TR-7. The R-7 is a little different. Q201 controls NORM / AUX switching
via the PROM. I have also seen instances where the PROM outputs would break down, shorting the
output pin.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi all,
>
> I am working on a R-7 which has a weird problem: all bands, in NORM
> position, work fine. But then, in AUX PROGRAM positions, they mainly
> refuse to work (from time to time, some of them work for a while).
> Thinking about faulty contacts I have removed, resoldered and
> reseated AUX7, DIGITAL CONTROL and DR7 boards but problem persists.
> BTW, SETBAND LED behaves correctly.
>
> Is there any typical component fault which could cause this?
>
> Thanks!
>
> JOSE
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
> Radio and Test Equipment....... http://jvgavila.com
> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>
>

6108. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 16:40:43 UTC
From: Jim Shorney
Topic: 6105 Message: 6108

Hi Jose,

In addition to Garey's tips, don't overlook the obvious. I have been troubled lately by dirty contacts of the AUX switch in my TR-7. All positions except NORM are very intermittent. It will get a good cleaning when I find some bench time for that radio.

73

-Jim

On Sun, 27 Nov 2011 16:52:29 +0100, Jose V. Gavila wrote:

>Hi all,
>
>I am working on a R-7 which has a weird problem: all bands, in NORM
>position, work fine. But then, in AUX PROGRAM positions, they mainly
>refuse to work (from time to time, some of them work for a while).
>Thinking about faulty contacts I have removed, resoldered and
>reseated AUX7, DIGITAL CONTROL and DR7 boards but problem persists.
>BTW, SETBAND LED behaves correctly.
>
>Is there any typical component fault which could cause this?
>
>Thanks!
>
>JOSE
>--
>73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
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>
>

--
Ham Radio NU0C
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TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://www.nebraskaghosts.org

6109. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 17:48:53 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6109

Hi Garey,

>Sorry, I was looking at TR-7. The R-7 is a little different. Q201
>controls NORM / AUX switching
>via the PROM. I have also seen instances where the PROM outputs
>would break down, shorting the
>output pin.

OK, thanks for the hint!

While I was watching the F-1 race ;-), the R-7 has been left in AUX position... and it is a thermal-related problem, as after about 15 minutes, all AUX bands have started to work fine. And they keep working!

Another info: I have available two AUX-7 cards and with both failure was present when cold. So I would say the problem is on the DIGITAL CONTROL board, and probably the PROM, right?

It is not easy to cool it directly to check it, I am afraid.

Is that PROM available as an aftermarket / spare part?

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment..... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

6110. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 17:49:50 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6110

Hi Jim,

>In addition to Garey's tips, don't overlook the obvious. I have been troubled
>lately by dirty contacts of the AUX switch in my TR-7. All positions except
>NORM are very intermittent. It will get a good cleaning when I find
>some bench time for that radio.

Thanks for the hint but this time it seems is not a contact problem
(I had checked that carefully)

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
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RadioRepair BLOG.............. http://radiorepair.blogspot.com

6111. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 18:12:02 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6111

Hi again,

Checking the schematics I would say that a faulty PROM would also
generate faulty decoding when using the NORM position... so perhaps
it is a matter of the switching, as you suggest (Q201 or whatever drives it)

I will look for that possibility. Perhaps a 2N3904 is all what is needed ;-)!

Regards,

JOSE

At 17:16 27/11/2011, you wrote:
>Jose -
>
>Sorry, I was looking at TR-7. The R-7 is a little different. Q201
>controls NORM / AUX switching
>via the PROM. I have also seen instances where the PROM outputs
>would break down, shorting the
>output pin.
>
>73, Garey - K4OAH
>Glen Allen, VA

--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
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RadioRepair BLOG.............. http://radiorepair.blogspot.com

6112. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 18:52:40 UTC
From: Garey Barrell
Topic: 6105 Message: 6112

Jose -

Don't overlook Q201... It wouldn't be the first plastic case transistor of that era to get 'flaky'.

Would be easy to get to with an extender board set. If you don't have one, an excellent after-market set is available from W7AVK for about half or less than the Drake sets go for. <http://www.wb4hfn.com/Services/W7AVK/tr7ext2.htm>

Cold spray!! :-)

The PROM is 82S123, a generic, fusible, easily programmed. American Microsemiconductor has them for
$20. Possibly others. I've had good luck with AMS, no minimum and reasonable shipping. Someone
was talking about replicating them some time ago, but don't think I have ever seen them. It IS a
different program than the TR-7 PROM.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi Garey,
>
>> Sorry, I was looking at TR-7. The R-7 is a little different. Q201
>> controls NORM / AUX switching
>> via the PROM. I have also seen instances where the PROM outputs
>> would break down, shorting the
>> output pin.
> OK, thanks for the hint!
>
> While I was watching the F-1 race ;-), the R-7 has been left in AUX
> position... and it is a thermal-related problem, as after about 15
> minutes, all AUX bands have started to work fine. And they keep working!
>
> Another info: I have available two AUX-7 cards and with both failure
> was present when cold. So I would say the problem is on the DIGITAL
> CONTROL board, and probably the PROM, right?
>
> It is not easy to cool it directly to check it, I am afraid.
>
> Is that PROM available as an aftermarket / spare part?

>
> Regards,
>
> JOSE
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
> Radio and Test Equipment....... http://jvgavila.com
> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>
>

6113. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 18:58:12 UTC
From: Garey Barrell
Topic: 6105 Message: 6113

Jose -

The ones I have seen were blown such that an output would be 'open' on 'A' and shorted on 'B'.
Usually on more than one output, indicating perhaps some sort of contamination or 'whisker' growth?

Hopefully it's just a contaminated 2N3904!!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi again,
>
> Checking the schematics I would say that a faulty PROM would also
> generate faulty decoding when using the NORM position... so perhaps
> it is a matter of the switching, as you suggest (Q201 or whatever drives it)
>
> I will look for that possibility. Perhaps a 2N3904 is all what is needed ;-)!
>
> Regards,
>
> JOSE
>
> At 17:16 27/11/2011, you wrote:
>> Jose -
>>
>> Sorry, I was looking at TR-7. The R-7 is a little different. Q201
>> controls NORM / AUX switching
>> via the PROM. I have also seen instances where the PROM outputs
>> would break down, shorting the
>> output pin.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
> Radio and Test Equipment....... http://jvgavila.com
> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>
>

6114. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-27 20:46:46 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 6114

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

6115. Help... broken wire on R4B re-cap project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 03:48:55 UTC
From: ve3tdn
Topic: 6115 Message: 6115

Ok, so I've got a minor problem on my R4B recapping project. Last night when I left things, everything looked normal. Tonight when I went back to work, I realized I had a single white/brown wire not connected to anything... broken solder joint. I can't find a likely connection within the sweep of the wire.

Pics are located in my photo album "VE3TDN R4-B Rebuild"

The other end connects to the tuning board. Tracing the schematics aren't helping me... I'm too used to newer style schematics where wire colours are listed.

Can anyone point me in the right direction so I can get this buttoned back up?

Thanks,
Doug
VE3 TDN

6116. Re: [DrakeRadio] Help... broken wire on R4B re-cap project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 14:13:35 UTC
From: Garey Barrell
Topic: 6115 Message: 6116

Doug -

IF the brown wire going to the Calibrator board is connected to the terminal at one end of the 180
ohm resistor, the other end connects to the 11V terminal in the center at the top of the power
supply board (the one with the 150 ohm 2W resistor in your first photo).

You should have had my CD! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ve3tdn wrote:
> Ok, so I've got a minor problem on my R4B recapping project. Last night when I left things, everything looked normal. Tonight when I went back to work, I realized I had a single white/brown wire not connected to anything... broken solder joint. I can't find a likely connection within the sweep of the wire.
>
> Pics are located in my photo album "VE3TDN R4-B Rebuild"
>
> The other end connects to the tuning board. Tracing the schematics aren't helping me... I'm too used to newer style schematics where wire colours are listed.
>
> Can anyone point me in the right direction so I can get this buttoned back up?
>
> Thanks,
> Doug
> VE3 TDN
>
>

6117. RE: [DrakeRadio] Help... broken wire on R4B re-cap project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 14:45:52 UTC
From: Jim Chaggaris
Topic: 6115 Message: 6117

Garey,

You're right. He should have had your CD! If he didn't, he should have taken plenty of photos before tearing into the radio.

73,

Jim N9WW

James Chaggaris

President

PowerOne Corp./PowerOne Environmental

1020 Cedar Ave. Suite 203

St. Charles, IL 60174

Phn: 630-443-6500

Cell: 630-669-2241

Fax: 630-443-6505

Website: www.pwrone.com

From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Garey Barrell
Sent: Monday, November 28, 2011 8:14 AM
To: DrakeRadio@yahoogroups.com
Subject: Re: [DrakeRadio] Help... broken wire on R4B re-cap project

Doug -

IF the brown wire going to the Calibrator board is connected to the terminal at one end of the 180
ohm resistor, the other end connects to the 11V terminal in the center at the top of the power
supply board (the one with the 150 ohm 2W resistor in your first photo).

You should have had my CD! :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

ve3tdn wrote:
> Ok, so I've got a minor problem on my R4B recapping project. Last night when I left things, everything looked normal. Tonight when I went back to work, I realized I had a single white/brown wire not connected to anything... broken solder joint. I can't find a likely connection within the sweep of the wire.
>
> Pics are located in my photo album "VE3TDN R4-B Rebuild"
>
> The other end connects to the tuning board. Tracing the schematics aren't helping me... I'm too used to newer style schematics where wire colours are listed.
>
> Can anyone point me in the right direction so I can get this buttoned back up?
>
> Thanks,
> Doug
> VE3 TDN
>
>

[Non-text portions of this message have been removed]

6118. RE: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 15:32:43 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6118

Hi Garey and all List members,

>The ones I have seen were blown such that an output would be 'open' on 'A' and
>shorted on 'B'.
>Usually on more than one output, indicating perhaps some sort of contamination
>or 'whisker' growth?
>
>Hopefully it's just a contaminated 2N3904!!

No luck so far... I replaced the 2N3904 with a new unit and it keeps doing the same: works OK after about 15 minutes being powered but, when cold, it fails to work but only in AUX band positions. I will continue checking things...

BTW, I have a TR-7 extender set but I had forgotten about it :-O!. So, yes, it seems a good moment to use it.

Regards,

JOSE

--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

6119. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 16:06:32 UTC
From: Garey Barrell
Topic: 6105 Message: 6119

Jose -

OK. Well, it never hurts to try! :-) Sounds like time for some cold spray on U201 and perhaps
some PC board traces. Sometimes traces develop micro-cracks that are temperature sensitive. A VERY
bright light behind the board will sometimes spot them.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
> Hi Garey and all List members,
>
>> The ones I have seen were blown such that an output would be 'open' on 'A' and
>> shorted on 'B'.
>> Usually on more than one output, indicating perhaps some sort of contamination
>> or 'whisker' growth?
>>
>> Hopefully it's just a contaminated 2N3904!!
> No luck so far... I replaced the 2N3904 with a new unit and it keeps doing the
> same: works OK after about 15 minutes being powered but, when cold, it fails to
> work but only in AUX band positions. I will continue checking things...
>
> BTW, I have a TR-7 extender set but I had forgotten about it :-O!. So, yes, it
> seems a good moment to use it.
>
> Regards,
>
> JOSE
>
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
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> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>
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>
> Yahoo! Groups Links
>

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>

6120. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 17:04:13 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6120

Hello!

>OK. Well, it never hurts to try! :-) Sounds like time for some
>cold spray on U201 and perhaps
...

Yes, it fails if I give it a shot of cold spray!. It is in a socket,
so I will carefully clean it and, if in doubt, will replace socket
with a new one.

In case U201 is faulty, has someone successfully programmed a replacement?

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

6121. New to this group, but not to Drake.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 19:35:58 UTC
From: LonnieW
Topic: 6121 Message: 6121

Hello, I am N9IUI, Lonnie, and I live in Indianapolis, Indiana.
I got my first Drake, a TR4c, in about 1989 or 1990; my first HF rig.
I had a ball on 10 meters that cycle and fell in love with that old Drake. Luckily I still have him and he works fine.

I recently "won" an eBay auction for an MN-4 tuner which I had wanted for quite some time. I was suspicious because it was listed under CB Radio and not Ham Radio. The seller also stated that the "unit powered up, but we can't test further than that". I thought he must have mixed it up with something else so I took a chance, bid, and got it for a pretty good price.

I just received it today and I can't describe what I felt when I unpacked it and saw a power cord, fuse holder, and on-off switch on the back!

Who ever had this poor little MN-4 had "built" a power supply into it. It was ugly, I'm here to tell you.

I yanked all the extra stuff out and am hoping that the tuner part will still work. I'll find out tonight when I get home with it. Now I have three extra large holes and 4 or 5 extra screw holes in the back panel.

I have been unable to find a clean sharp photo of the inside of an MN-4 to compare. Does anyone have one they could post or email me? That would help in restoring this poor little thing to the way he was meant to be.

I'm just thankful the idiot only put one extra hole in the front panel, and it is small!

73

Lonnie, N9IUI

6122. Re: [DrakeRadio] New to this group, but not to Drake.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 19:42:19 UTC
From: Garey Barrell
Topic: 6121 Message: 6122

Lonnie -

Just a guess, but that may all have been for a peak reading circuit, which can be quite handy! So
don't throw it all away yet. :-)

See attached photos.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

LonnieW wrote:
> Hello, I am N9IUI, Lonnie, and I live in Indianapolis, Indiana.
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> I had a ball on 10 meters that cycle and fell in love with that old Drake. Luckily I still have him and he works fine.
>
> I recently "won" an eBay auction for an MN-4 tuner which I had wanted for quite some time. I was suspicious because it was listed under CB Radio and not Ham Radio. The seller also stated that the "unit powered up, but we can't test further than that". I thought he must have mixed it up with something else so I took a chance, bid, and got it for a pretty good price.
>
> I just received it today and I can't describe what I felt when I unpacked it and saw a power cord, fuse holder, and on-off switch on the back!
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>
> I yanked all the extra stuff out and am hoping that the tuner part will still work. I'll find out tonight when I get home with it. Now I have three extra large holes and 4 or 5 extra screw holes in the back panel.
>
> I have been unable to find a clean sharp photo of the inside of an MN-4 to compare. Does anyone have one they could post or email me? That would help in restoring this poor little thing to the way he was meant to be.
>
> I'm just thankful the idiot only put one extra hole in the front panel, and it is small!
>
> 73
>
> Lonnie, N9IUI

>
>

[Non-text portions of this message have been removed]

6123. Re: New to this group, but not to Drake.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 20:01:25 UTC
From: LonnieW
Topic: 6121 Message: 6123

I don't think so Garey. It wasn't attached to the tuner or meter in any way. It looks like he just used the MN-4 as a case to hold the ugliest power supply in the world!

Lonnie, N9IUI

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Lonnie -
>
> Just a guess, but that may all have been for a peak reading circuit, which can be quite handy! So
> don't throw it all away yet. :-)
>
> See attached photos.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> LonnieW wrote:
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> >
> > I recently "won" an eBay auction for an MN-4 tuner which I had wanted for quite some time. I was suspicious because it was listed under CB Radio and not Ham Radio. The seller also stated that the "unit powered up, but we can't test further than that". I thought he must have mixed it up with something else so I took a chance, bid, and got it for a pretty good price.
> >
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> >
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> >
> > I yanked all the extra stuff out and am hoping that the tuner part will still work. I'll find out tonight when I get home with it. Now I have three extra large holes and 4 or 5 extra screw holes in the back panel.
> >

> > I have been unable to find a clean sharp photo of the inside of an MN-4 to compare. Does anyone have one they could post or email me? That would help in restoring this poor little thing to the way he was meant to be.
> >
> > I'm just thankful the idiot only put one extra hole in the front panel, and it is small!
> >
> > 73
> >
> > Lonnie, N9IUI
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

6124. Re: [DrakeRadio] Re: New to this group, but not to Drake.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 20:06:01 UTC
From: Garey Barrell
Topic: 6121 Message: 6124

Oh well.... :-)

Those pictures ok?

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

LonnieW wrote:
> I don't think so Garey. It wasn't attached to the tuner or meter in any way. It looks like he just used the MN-4 as a case to hold the ugliest power supply in the world!
>
> Lonnie, N9IUI
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Lonnie -
>>
>> Just a guess, but that may all have been for a peak reading circuit, which can be quite handy! So
>> don't throw it all away yet. :-)
>>
>> See attached photos.
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
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>>
>> LonnieW wrote:
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>>> Who ever had this poor little MN-4 had "built" a power supply into it. It was ugly, I'm here to tell you.
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>>> I have been unable to find a clean sharp photo of the inside of an MN-4 to compare. Does anyone have one they could post or email me? That would help in restoring this poor little thing to the way he was meant to be.
>>>
>>> I'm just thankful the idiot only put one extra hole in the front panel, and it is small!
>>>
>>> 73
>>>
>>> Lonnie, N9IUI
>>>
>>>

6125. Re: New to this group, but not to Drake.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-28 20:10:56 UTC
From: LonnieW
Topic: 6121 Message: 6125

Nice photos of an MN-4C. I have an MN-4 (c;

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Oh well.... :-)
>
> Those pictures ok?
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> LonnieW wrote:
> > I don't think so Garey. It wasn't attached to the tuner or meter in any way. It looks like he just used the MN-4 as a case to hold the ugliest power supply in the world!
> >
> > Lonnie, N9IUI
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >> Lonnie -
> >>
> >> Just a guess, but that may all have been for a peak reading circuit, which can be quite handy! So
> >> don't throw it all away yet. :-)
> >>
> >> See attached photos.
> >>
> >> 73, Garey - K4OAH
> >> Glen Allen, VA
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> LonnieW wrote:
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> >>> I got my first Drake, a TR4c, in about 1989 or 1990; my first HF rig.
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> >>> I recently "won" an eBay auction for an MN-4 tuner which I had wanted for quite some time. I was suspicious because it was listed under CB Radio and not Ham Radio. The seller also stated that the "unit powered up, but we can't test further than that". I thought he must have mixed it up with something else so I took a chance, bid, and got it for a pretty good price.
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> >>> I just received it today and I can't describe what I felt when I unpacked it and saw a power cord, fuse holder, and on-off switch on the back!
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> >>> I yanked all the extra stuff out and am hoping that the tuner part will still work. I'll find out tonight when I get home with it. Now I have three extra large holes and 4 or 5 extra screw holes in the back panel.
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> >>> I have been unable to find a clean sharp photo of the inside of an MN-4 to compare. Does anyone have one they could post or email me? That would help in restoring this poor little thing to the way he was meant to be.
> >>>
> >>> I'm just thankful the idiot only put one extra hole in the front panel, and it is small!
> >>>
> >>> 73
> >>>
> >>> Lonnie, N9IUI
> >>>
> >>>
>

6126. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-29 18:42:30 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6126

Hi all,

I have some advances on this!

Looking at the DIGITAL CONTROL board schematics I found that on any AUX PROGRAM position, the output of the PROM should be high impedance so it could be removed and receiver should continue to work. So I guessed that, if the PROM was bad, it could leave some output wrong when not selected. So I got it out (it is socketed) and the problem got worse!. Now, even when hot, AUX bands didn't work... back to think!

So, what was happening?. A couple of the PROM outputs were always zero in the programmed AUX bands but there was an slightly over zero (0.2-0.5V) voltage on the DR7 U9005 and U9006 chips (both MC15510B) and that voltage generated a wrong high output. Curiously enough, that happened only on one of the four input pins each MC15510B has (pin 3). So shen you put the PROM and it gets warm, that voltage goes a bit lower and then output follows input as it should.

So I did an old trick: put a soft pull-down (10k) on the problematic inputs. And, yes, it did the trick!. Now input is at about 0.05V when low and close to 4V when high (in my case, only on NORMAL bands) and output follows input.

Then I found an unrelated (well, I don't think so...) fault: UP and DOWN, when in NORMAL position, don't work always. Sometimes UP goes DOWN, DOWN generates more than one step and so on. I am studying the schematic as, guess what?... both MC15510B are part of the UP/DOWN system... so thay are suspicious. Or something around them.

The plot thickens...

Regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment..... http://jvgavila.com
RadioRepair BLOG..... http://radiorepair.blogspot.com

6127. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-29 21:32:25 UTC
From: Jose V. Gavila
Topic: 6105 Message: 6127

Hi all,

It is FIXED!!!

I have found the reason for the faulty UP / DOWN function: one of the counters (U9006, an MC14510B) had a faulty input pin, which was polarizing the UP/DOWN pin (pin 10) with a weird 3.9V voltage. Once I have isolated the fault, I have replaced it (using a socket just in case it breaks again in 30 years ;-)) with a CD4510BE and voila!, UP/DOWN is working!

I have not replaced the other identical unit, U9005, as it seems to work OK. But I have needed to keep the pull-down resistors I commented on last message to get them working right, so I guess there is some problem in the MC14510B lot used in this rig (datecode 8029). And the DR-7 has no less than 6 units!. I hope they don't all fail in the close future, hi!

Thanks and best regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

6128. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-29 21:37:01 UTC
From: Keith Evans
Topic: 6105 Message: 6128

Glad you fixed it, a good tip for anyone else with that problem.
73
Keith G3VKW

----- Original Message -----
From: Jose V. Gavila
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, November 29, 2011 9:32 PM
Subject: Re: [DrakeRadio] R-7: nonworking AUX bands

Hi all,

It is FIXED!!!

I have found the reason for the faulty UP / DOWN function: one of the counters (U9006, an MC14510B) had a faulty input pin, which was polarizing the UP/DOWN pin (pin 10) with a weird 3.9V voltage. Once I have isolated the fault, I have replaced it (using a socket just in case it breaks again in 30 years ;-)) with a CD4510BE and voila!, UP/DOWN is working!

I have not replaced the other identical unit, U9005, as it seems to work OK. But I have needed to keep the pull-down resistors I commented on last message to get them working right, so I guess there is some problem in the MC14510B lot used in this rig (datecode 8029). And the DR-7 has no less than 6 units!. I hope they don't all fail in the close future, hi!

Thanks and best regards,

JOSE
--
73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
Radio and Test Equipment....... http://jvgavila.com
RadioRepair BLOG.............. http://radiorepair.blogspot.com

[Non-text portions of this message have been removed]

6129. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-29 22:05:27 UTC
From: Garey Barrell
Topic: 6105 Message: 6129

Jose -

Cool! Always nice when one 'comes together' in spite of our best efforts!! :-)

Good catch of a tough problem.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Jose V. Gavila wrote:
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>
> It is FIXED!!!
>
> I have found the reason for the faulty UP / DOWN function: one of the
> counters (U9006, an MC14510B) had a faulty input pin, which was
> polarizing the UP/DOWN pin (pin 10) with a weird 3.9V voltage. Once I
> have isolated the fault, I have replaced it (using a socket just in
> case it breaks again in 30 years ;-)) with a CD4510BE and voila!,
> UP/DOWN is working!
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> I have not replaced the other identical unit, U9005, as it seems to
> work OK. But I have needed to keep the pull-down resistors I
> commented on last message to get them working right, so I guess there
> is some problem in the MC14510B lot used in this rig (datecode 8029).
> And the DR-7 has no less than 6 units!. I hope they don't all fail in
> the close future, hi!
>
> Thanks and best regards,
>
> JOSE
> --
> 73 EB5AGV - JOSE V. GAVILA - IM99sm La Canyada - Valencia(SPAIN)
> Radio and Test Equipment....... http://jvgavila.com
> RadioRepair BLOG.............. http://radiorepair.blogspot.com
>

6130. Re: Help... broken wire on R4B re-cap project

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-30 01:18:12 UTC
From: ve3tdn
Topic: 6115 Message: 6130

Garey,

Yes, the white/brown wire is going to the Calibrator board, at the end of the 180ohm resistor. I found the spot on the power supply board where I thought the wire broke off of, but wasn't 100% sure... there is only a tiny indent in the existing solder that the wire was originally nested in.

I guess I should have taken more pictures... and I didn't know there was a CD available.

Thanks for the pointers,

Doug.

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Doug -
>
> IF the brown wire going to the Calibrator board is connected to the terminal at one end of the 180
> ohm resistor, the other end connects to the 11V terminal in the center at the top of the power
> supply board (the one with the 150 ohm 2W resistor in your first photo).
>
> You should have had my CD! :-)
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

6131. Re: For Sale or Trade: TR-7, Extras.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-30 02:53:40 UTC
From: Frank
Topic: 6037 Message: 6131

Ed,

A TR7 (w/o issues) and PS just sold on eBay for $475. What did you have in mind on a sale?

Frank
K4FMH

--- In DrakeRadio@yahoogroups.com, "Ed WA4NJY" <wa4njy@...> wrote:
>
>
> Have a very clean TR-7 with a few issues. Includes 7077 desk mic, 1.8kc and .500kc
filters,
> fan, power cable, original manual.
>
> The issues:
>
> 1. UP button is not working.
> 2. Mic gain needs to be 3/4 open for full meter deflection. Audio reports are good.
> 3. Display reads about 200 cycles low.
> 4. One small knob has missing insert.
>
> Otherwise, it has made several contacts recently. I will be using it on 10 meters now.
>
> Looking for offers or suggestions on value. Will consider trades involving other HF rigs
> or Drake R4-A or B.
>
> Ed WA4NJY
> Bradenton, Fl
> wa4njy@...
> 941-746-1642
>

6132. Re: [DrakeRadio] Re: For Sale or Trade: TR-7, Extras.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-30 03:27:06 UTC
From: Ed Purvis
Topic: 6037 Message: 6132

Hi Frank,

Thanks for writing. The offers and inquiries have been few. Seems the TR-7s are not in demand now.
I have put it back in service and will keep it unless a local deal comes along.

73,
Ed

A government that can tax Peter to pay Paul, can always depend on Paul's support.

From: Frank <frankmhowell@...>
To: DrakeRadio@yahoogroups.com
Sent: Tuesday, November 29, 2011 9:53 PM
Subject: [DrakeRadio] Re: For Sale or Trade: TR-7, Extras.

Ed,

A TR7 (w/o issues) and PS just sold on eBay for $475. What did you have in mind on a sale?

Frank
K4FMH

--- In DrakeRadio@...m, "Ed WA4NJY" <wa4njy@...> wrote:
>
>
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> fan, power cable, original manual.
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> The issues:
>
> 1. UP button is not working.
> 2. Mic gain needs to be 3/4 open for full meter deflection. Audio reports are good.
> 3. Display reads about 200 cycles low.
> 4. One small knob has missing insert.
>
> Otherwise, it has made several contacts recently. I will be using it on 10 meters now.
>
> Looking for offers or suggestions on value. Will consider trades involving other HF rigs
> or Drake R4-A or B.
>
> Ed WA4NJY
> Bradenton, Fl
> wa4njy@...
> 941-746-1642

>

[Non-text portions of this message have been removed]

6133. Re: [DrakeRadio] R-7: nonworking AUX bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-11-30 04:08:26 UTC
From: Jim Shorney
Topic: 6105 Message: 6133

On Tue, 29 Nov 2011 22:32:25 +0100, Jose V. Gavila wrote:

>It is FIXED!!!
>
>I have found the reason for the faulty UP / DOWN function: one of the
>counters (U9006, an MC14510B) had a faulty input pin, which was
>polarizing the UP/DOWN pin (pin 10) with a weird 3.9V voltage

Congrats, Jose. I've seen strange stuff like that with CMOS before, not always easy to track down.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6134. Still looking for an RV-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 04:52:51 UTC
From: wb6tnf
Topic: 6134 Message: 6134

I have 2 TR-6's. I would love to buy an RV-6 (at least one) if anyone has one they would consider selling. I figure if I keep asking at least once a year, maybe someday I'll get lucky. Jim - WB6TNF

6135. I think I may have had a fatal failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 04:55:52 UTC
From: Dan Galligan
Topic: 6135 Message: 6135

I had mentioned a couple of weeks ago, that I had a blind friend, whom I would be helping sell some radios. He HAD a 2B and a 2A-Q Multiplier, which he got sold on his own. There was a mostly very nice condition Drake R4C, which he and a friend had briefly began to bring up on a variac, but it blew the fuse, when they plugged in the headphones (they didn't have a speaker with an RCA plug). Obviously, they stopped at that point. I went up to his home Monday night and picked up a BUNCH of old stuff, some of it NOS in boxes, much of it Boat-anchor-ish, the smallest radio, being a Heath HW-8, and the newest, being a nice shape FT901DM, including the R4C, and what appears to be a very nicely built, homebrew, 500 watt CW transmitter.
I brought it all to my house, and started getting it all un-dusty, and ready to check out. I connected a 4 ohm speaker, plugged the R4C into my variac, and brought it up to 20, then 50 then 70, then 100 volts, moving slowly between each step, and letting it sit for several minutes at each of those voltages. there was a 60hz buzz, from the speaker, the entire time. When it looked like all was going pretty well, other than the 60hz hum, and I had gotten to 100VAC, I stepped out of the room, for some water. When I stepped back in the room, (about 5 minutes later) it was smoking, from the right rear, so I immediately unplugged it from my variac. The transformer inside, continued smoking, long enough, that I was beginning to worry there was an actual fire, so I checked closely, and had none. I let it sit, rest and cool, for some time, and more than a half hour later, I removed the top cover, and the transformer was still HOT to the touch. I looked closely in there, and did not see anything, other than the forward, left corner, of the transformer, which had melted paint.
NOW, my question. Can any of you, far more knowledgeable folks, point me towards where to look for the root cause of the problem? A compounding factor, was too heavy of a fuse. Apparently, when it blew the fuse for them, someone replaced it with an AGC30, which I believe is FAR too big, for a receiver. I wish I had noticed that, before I started to apply voltage. I did look, but I saw a fuse that didn't appear blown, and it never crossed my mind to check the amperage rating.
Now, based on my descriptions, considering I am selling the radio for a blind friend, would it be best to make it a project rig, or sell as a swap meet/tech special? I've already told him we likely need to just get rid of it, but there is a lot of it, that still looks to be very nice, so I hate the idea of it being parted out. It has the NB 4, the CW .25 filter and the CW 1.5 filter, as well as being very clean internally and externally, with no signs of abuse, the only anomaly I found, visually, is the band switch has the wrong knob. Otherwise, no signs of anything to lead me to believe we would find any issues, other than old capacitors.
If I were to turn it into a project, this would be my first radio project, since the 1970's, getting a Viking II back on the air, so I will likely be asking a bunch of questions, if it becomes that.

Thanks for the help to come.
Dan Galligan
W3RXO/W6
w3rxo@...
Real radios glow in the dark

Member-Collins Collector's Assoc.
Member-Collins Radio Assoc.
Member-Amplitude Modulation Int'l.
Collector of Drake, Collins and other fine AMERICAN made, tube-type radios.

[Non-text portions of this message have been removed]

6136. Re: [DrakeRadio] I think I may have had a fatal failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 05:14:33 UTC
From: Bernie
Topic: 6135 Message: 6136

In my opinion, the first clue to a pending disaster was the 60 cycle hum in the speaker...indicating a faulty filter capacitor or multi-section filter capacitor in the power supply. If one happens to short, it throws a tremendous load on the transformer and unless present to disconnect at the first hint of foul smell, or smoke, I suspect the transformer is toast. This greatly diminishes the value of the transmitter or transceiver. Fiable, but could be pricey...a lot more expensive than replacing filter capacitors at the very beginning.

Bernie in ND
WD0GMD

----- Original Message -----
From: Dan Galligan
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, November 30, 2011 10:55 PM
Subject: [DrakeRadio] I think I may have had a fatal failure

I had mentioned a couple of weeks ago, that I had a blind friend, whom I would be helping sell some radios. He HAD a 2B and a 2A-Q Multiplier, which he got sold on his own. There was a mostly very nice condition Drake R4C, which he and a friend had briefly began to bring up on a variac, but it blew the fuse, when they plugged in the headphones (they didn't have a speaker with an RCA plug). Obviously, they stopped at that point. I went up to his home Monday night and picked up a BUNCH of old stuff, some of it NOS in boxes, much of it Boat-anchor-ish, the smallest radio, being a Heath HW-8, and the newest, being a nice shape FT901DM, including the R4C, and what appears to be a very nicely built, homebrew, 500 watt CW transmitter.
I brought it all to my house, and started getting it all un-dusty, and ready to check out. I connected a 4 ohm speaker, plugged the R4C into my variac, and brought it up to 20, then 50 then 70, then 100 volts, moving slowly between each step, and letting it sit for several minutes at each of those voltages. there was a 60hz buzz, from the speaker, the entire time. When it looked like all was going pretty well, other than the 60hz hum, and I had gotten to 100VAC, I stepped out of the room, for some water. When I stepped back in the room, (about 5 minutes later) it was smoking, from the right rear, so I immediately unplugged it from my variac. The transformer inside, continued smoking, long enough, that I was beginning to worry there was an actual fire, so I checked closely, and had none. I let it sit, rest and cool, for some time, and more than a half hour later, I removed the top cover, and the transformer was still HOT to the touch. I looked closely in there, and did not see anything, other than the forward, left corner, of the transformer, which had melted paint.
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Thanks for the help to come.
Dan Galligan
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w3rxo@...
Real radios glow in the dark
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Collector of Drake, Collins and other fine AMERICAN made, tube-type radios.

[Non-text portions of this message have been removed]

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6137. Re: [DrakeRadio] Still looking for an RV-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 05:28:13 UTC
From: Jim Shorney
Topic: 6134 Message: 6137

On Thu, 01 Dec 2011 04:52:51 -0000, wb6tnf wrote:

>I have 2 TR-6's. I would love to buy an RV-6 (at least one) if anyone has one they would consider selling. I figure if I keep asking at least once a year, maybe someday I'll get lucky.

You are aslking for a rare item. An RV-4C will work, but you have to allow for different dial markings. And would probably be a lot cheaper.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6138. Re: [DrakeRadio] Still looking for an RV-6

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 05:40:49 UTC
From: Dan Galligan
Topic: 6134 Message: 6138

I think I would be asking once a month, at least, if I wanted something that rare. Good luck, and I will keep that in mind.
Dan
W3RXO/W6

On Nov 30, 2011, at 8:52 PM, wb6tnf wrote:

I have 2 TR-6's. I would love to buy an RV-6 (at least one) if anyone has one they would consider selling. I figure if I keep asking at least once a year, maybe someday I'll get lucky. Jim - WB6TNF

Yahoo! Groups Links

6139. Re: [DrakeRadio] I think I may have had a fatal failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 05:56:56 UTC
From: Jim Shorney
Topic: 6135 Message: 6139

On Wed, 30 Nov 2011 20:55:52 -0800, Dan Galligan wrote:

>If I were to turn it into a project, this would be my first radio project, since the 1970's, getting a Viking II back on the air, so I will likely be asking a bunch of questions, if it becomes that.

I agree with Bernie, the 60 cycle hum was a warning sign that you probably should have shut down to investigate. The transformer is probably toast if it got that hot. Even if it's not, it may only be a matter of time, as the internal insulation will be badly scorched. If the rig is in nice shape, hang onto it as-is. You should eventually be able to find a transformer out of a parts rig. The other option is to have the transformer re-wound, but that won't be cheap. Don't give up, I found a NOS transformer for my HyGain 3750, practically right under my nose as it were. I paid a good price for it, but it was cheaper than a rewind would have been.

This exposes two rules that many of us learn the hard way. ALWAYS check the fuse for proper size before powering up a "new" radio for the first time. If you find an oversize fuse, suspect a BAD reason for it to be there. Second rule (and one that some people disagree with) is NEVER leave a vintage radio powered up unattended. Period. It doesn't take long for a fault to destroy an unobtanium part, and if you're there, at least you have a chance to minimize the damage.

73

-Jim (and I still occasionally break these rules)
NU0C

--

"I aim to misbehave." - Captain Malcolm Reynolds, "Serenity"

6140. Re: [DrakeRadio] I think I may have had a fatal failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 06:20:44 UTC
From: Dan Galligan
Topic: 6135 Message: 6140

Yeah, I do see R4C's occasionally, at the local swap meets, or on QRZ/QTH, so maybe I ask my buddy, what he wants for it, in it's condition. With the filters and noise blanker, NOT being in my personal R4C, it might be worth grabbing it up, and using those options on my current R4C (though I still prefer my R4B)
Even though it is bad news, I appreciate it. It was pretty much what I expected.
73,
DE W3RXO/W6
"If you put the federal government in charge of the Sahara Desert, in five years there'd be a shortage of sand."
Milton Friedman

On Nov 30, 2011, at 9:56 PM, Jim Shorney wrote:

On Wed, 30 Nov 2011 20:55:52 -0800, Dan Galligan wrote:

> If I were to turn it into a project, this would be my first radio project, since the 1970's, getting a Viking II back on the air, so I will likely be asking a bunch of questions, if it becomes that.

I agree with Bernie, the 60 cycle hum was a warning sign that you probably should have shut down to investigate. The transformer is probably toast if it got that hot. Even if it's not, it may only be a matter of time, as the internal insulation will be badly scorched. If the rig is in nice shape, hang onto it as-is. You should eventually be able to find a transformer out of a parts rig. The other option is to have the transformer re-wound, but that won't be cheap. Don't give up, I found a NOS transformer for my HyGain 3750, practically right under my nose as it were. I paid a good price for it, but it was cheaper than a rewind would have been.

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-Jim (and I still occasionally break these rules)
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Yahoo! Groups Links

6141. RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 10:04:28 UTC
From: facsmart
Topic: 6141 Message: 6141

I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.
My power supply has been rebuilt, and have had no problems with the TR-4. Help!

Ted ki6wik

6142. Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 10:36:41 UTC
From: facsmart
Topic: 6141 Message: 6142

Well the bulb issue is because I put a #47 in and it needs a #53, I've ordered the #53's. Still nothing from the VFO, and the resistor #R16 22K 2W, is that there for the TR-3? Not that I have a TR-3, but its a bit confusing the schematic shows the 22K 2W, and it's in the same place that you would add one if your using a TR-3. I'm confused.

--- In DrakeRadio@...m, "facsmart" <facsmart@...> wrote:
>
> I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.
> My power supply has been rebuilt, and have had no problems with the TR-4. Help!
>
> Ted ki6wik
>

6143. Re: [DrakeRadio] I think I may have had a fatal failure

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 16:39:27 UTC
From: Garey Barrell
Topic: 6135 Message: 6143

Once again, I'll take a light bulb any day over ANY silly 50 step Variac procedure.....

FIRST THING WITH A 'NEW' PIECE _CHECK THE FUSE_...

Live and learn...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Dan Galligan wrote:
> I had mentioned a couple of weeks ago, that I had a blind friend, whom I would be helping sell some radios. He HAD a 2B and a 2A-Q Multiplier, which he got sold on his own. There was a mostly very nice condition Drake R4C, which he and a friend had briefly began to bring up on a variac, but it blew the fuse, when they plugged in the headphones (they didn't have a speaker with an RCA plug). Obviously, they stopped at that point. I went up to his home Monday night and picked up a BUNCH of old stuff, some of it NOS in boxes, much of it Boat-anchor-ish, the smallest radio, being a Heath HW-8, and the newest, being a nice shape FT901DM, including the R4C, and what appears to be a very nicely built, homebrew, 500 watt CW transmitter.
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.25 filter and the CW 1.5 filter, as well as being very clean internally and externally, with no signs of abuse, the only anomaly I found, visually, is the band switch has the wrong knob. Otherwise, no signs of anything to lead me to believe we would find any issues, other than old capacitors.
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> Thanks for the help to come.
> Dan Galligan
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> Collector of Drake, Collins and other fine AMERICAN made, tube-type radios.
>
>
>
>

6144. Re: [DrakeRadio] Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 17:34:44 UTC
From: Garey Barrell
Topic: 6141 Message: 6144

Ted -

First question, is it an early or a late RV-4C. What power rated resistor is in place for R15.??

If R15 has gone way up in value, -OR- Q3 has shorted, it would explain your symptoms.

R16, 22k 2W has no special TR-3 function. The only 'mod' to use with a TR-3 is in the TR-3 the
jumper wire between pins 2 and 8 of the connector.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

facsmart wrote:
> Well the bulb issue is because I put a #47 in and it needs a #53, I've ordered the #53's. Still nothing from the VFO, and the resistor #R16 22K 2W, is that there for the TR-3? Not that I have a TR-3, but its a bit confusing the schematic shows the 22K 2W, and it's in the same place that you would add one if your using a TR-3. I'm confused.
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> --- In DrakeRadio@yahoogroups.com, "facsmart"<facsmart@...> wrote:
>> I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.
>> My power supply has been rebuilt, and have had no problems with the TR-4. Help!
>>
>> Ted ki6wik
>>

6145. Re: [DrakeRadio] Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 18:47:55 UTC
From: Ted Peckler
Topic: 6141 Message: 6145

I have a TR-4 not C model, and the RV-4 is not a C model. The instructions, say for a TR-3 place a 22K 2W resistor from the orange wire to the pin 1 of the 0A2. The schematic shows this 22K 2W resistor going from the orange wire to a junction off 0A2. I see no transistors. The transistor must be in the VFO can.

--- On Thu, 12/1/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@...>
Subject: Re: [DrakeRadio] Re: RV-4 & TR-4 problems
To: DrakeRadio@yahoogroups.com
Date: Thursday, December 1, 2011, 9:34 AM

Ted -

First question, is it an early or a late RV-4C. What power rated resistor is in place for R15.??

If R15 has gone way up in value, -OR- Q3 has shorted, it would explain your symptoms.

R16, 22k 2W has no special TR-3 function. The only 'mod' to use with a TR-3 is in the TR-3 the

jumper wire between pins 2 and 8 of the connector.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

facsmart wrote:

> Well the bulb issue is because I put a #47 in and it needs a #53, I've ordered the #53's. Still nothing from the VFO, and the resistor #R16 22K 2W, is that there for the TR-3? Not that I have a TR-3, but its a bit confusing the schematic shows the 22K 2W, and it's in the same place that you would add one if your using a TR-3. I'm confused.

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> --- In DrakeRadio@yahoogroups.com, "facsmart"<facsmart@...> wrote:

>> I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.

>> My power supply has been rebuilt, and have had no problems with the TR-4. Help!

>>

>> Ted ki6wik

>>

[Non-text portions of this message have been removed]

6148. Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 19:18:57 UTC
From: facsmart
Topic: 6141 Message: 6148

In the schematic that matches the RV-4 there are 2 transistors listed Q1 & Q2 there is no Q3. R15 & R17 are within tolerance. R16 also measures good.

--- In DrakeRadio@yahoogroups.com, Ted Peckler <facsmart@...> wrote:
>
> I have a TR-4 not C model, and the RV-4 is not a C model. The instructions, say for a TR-3 place a 22K 2W resistor from the orange wire to the pin 1 of the 0A2. The schematic shows this 22K 2W resistor going from the orange wire to a junction off 0A2. I see no transistors. The transistor must be in the VFO can.
>
> --- On Thu, 12/1/11, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Re: RV-4 & TR-4 problems
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, December 1, 2011, 9:34 AM
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> Ted -
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> 73, Garey - K4OAH
>
> Glen Allen, VA
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> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>
> and TR-4/C Service Supplement CDs
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> <www.k4oah.com>
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>
> facsmart wrote:
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> > --- In DrakeRadio@yahoogroups.com, "facsmart"<facsmart@> wrote:
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> >> My power supply has been rebuilt, and have had no problems with the TR-4. Help!
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> >> Ted ki6wik

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> [Non-text portions of this message have been removed]
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6150. Re: [DrakeRadio] Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 20:20:48 UTC
From: Garey Barrell
Topic: 6141 Message: 6150

Ted -

OK. sorry, that's a REALLY early TR-4. It has the 0A2 VR tube in it. There is NO Q3!! :-)

I still don't know of an variation with the TR-3 except for the jumper wire IN the TR-3. No matter,
you're using a TR-4......

You should measure very close to +150 VDC on Pin 1 of V2, and very close to +10 VDC on the 'other'
end of R15. While you're in there, check the voltages on Pins 3 and 8 of V1. They should measure
about 4.2 on Pin 8 and 42 on Pin 3.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

facsmart wrote:
> In the schematic that matches the RV-4 there are 2 transistors listed Q1& Q2 there is no Q3. R15& R17 are within tolerance. R16 also measures good.
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> --- In DrakeRadio@yahoogroups.com, Ted Peckler<facsmart@...> wrote:
>> I have a TR-4 not C model, and the RV-4 is not a C model. The instructions, say for a TR-3 place a 22K 2W resistor from the orange wire to the pin 1 of the 0A2. The schematic shows this 22K 2W resistor going from the orange wire to a junction off 0A2. I see no transistors. The transistor must be in the VFO can.
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>> --- On Thu, 12/1/11, Garey Barrell<k4oah@...> wrote:
>>
>> From: Garey Barrell<k4oah@...>
>> Subject: Re: [DrakeRadio] Re: RV-4& TR-4 problems
>> To: DrakeRadio@yahoogroups.com
>> Date: Thursday, December 1, 2011, 9:34 AM
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>> Ted -
>>
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>> First question, is it an early or a late RV-4C. What power rated resistor is in place for R15.??

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>> If R15 has gone way up in value, -OR- Q3 has shorted, it would explain your symptoms.
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>> R16, 22k 2W has no special TR-3 function. The only 'mod' to use with a TR-3 is in the TR-3 the
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>> jumper wire between pins 2 and 8 of the connector.
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>> 73, Garey - K4OAH
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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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>> <www.k4oah.com>
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>>> I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.
>>>> My power supply has been rebuilt, and have had no problems with the TR-4. Help!
>>>> Ted ki6wik

6151. Re: [DrakeRadio] Light bulb test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 20:28:10 UTC
From: Garey Barrell
Topic: 6135 Message: 6151

I have no idea what it would take, as I never had enough to matter when that was my dummy load. I
DID work a half dozen stations while loaded into a light bulb... :-)

A guess would be about 20% over? Depends upon how long? 150% would probably take it out pretty quick.

When used as an equipment protector, it really doesn't matter what size bulb you use, as even a
completely shorted transformer would cause it to light to ONLY full brilliance. Normally you try
and use a bulb of approximately the power requirement of the unit under test. Most receivers work
fine with a 40W bulb.

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Terrell Hamilton wrote:
> Hi, folks -
>
>
>
> Garey's comment about the light bulb started me to wonder how many watts a
> 100 w bulb would take before failure. I've always used a dummy load, but
> back in 1959 when I was a novice and using an ARC-5 and BC-348, that light
> bulb trick was used by some of my friends as a dummy to load into - but how
> much would it REALLY take, I wonder? (yes, I'm the kind of guy who likes
> to watch the MythBusters blow stuff up...)
>
>
>
> Terry
>
> K7WLD
>
> Wenatchee, WA
>
>
>
> From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> Behalf Of Garey Barrell

> Sent: Thursday, 01 December, 2011 08:39
> To: DrakeRadio@yahoogroups.com
> Subject: Re: [DrakeRadio] I think I may have had a fatal failure
>
>
>
>
>
> Once again, I'll take a light bulb any day over ANY silly 50 step Variac
> procedure.....
>
> FIRST THING WITH A 'NEW' PIECE _CHECK THE FUSE_...
>
> Live and learn...
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Dan Galligan wrote:
>> I had mentioned a couple of weeks ago, that I had a blind friend, whom I
> would be helping sell some radios. He HAD a 2B and a 2A-Q Multiplier, which
> he got sold on his own. There was a mostly very nice condition Drake R4C,
> which he and a friend had briefly began to bring up on a variac, but it blew
> the fuse, when they plugged in the headphones (they didn't have a speaker
> with an RCA plug). Obviously, they stopped at that point. I went up to his
> home Monday night and picked up a BUNCH of old stuff, some of it NOS in
> boxes, much of it Boat-anchor-ish, the smallest radio, being a Heath HW-8,
> and the newest, being a nice shape FT901DM, including the R4C, and what
> appears to be a very nicely built, homebrew, 500 watt CW transmitter.
>> I brought it all to my house, and started getting it all un-dusty, and
> ready to check out. I connected a 4 ohm speaker, plugged the R4C into my
> variac, and brought it up to 20, then 50 then 70, then 100 volts, moving
> slowly between each step, and letting it sit for several minutes at each of
> those voltages. there was a 60hz buzz, from the speaker, the entire time.
> When it looked like all was going pretty well, other than the 60hz hum, and
> I had gotten to 100VAC, I stepped out of the room, for some water. When I
> stepped back in the room, (about 5 minutes later) it was smoking, from the
> right rear, so I immediately unplugged it from my variac. The transformer
> inside, continued smoking, long enough, that I was beginning to worry there
> was an actual fire, so I checked closely, and had none. I let it sit, rest
> and cool, for some time, and more than a half hour later, I removed the top
> cover, and the transformer was still HOT to the touch. I looked closely in
> there, and did not see anything, other than the forward, left corner, of the
> transformer, which had melted paint.
>> NOW, my question. Can any of you, far more knowledgeable folks, point me
> towards where to look for the root cause of the problem? A compounding

> factor, was too heavy of a fuse. Apparently, when it blew the fuse for them,
> someone replaced it with an AGC30, which I believe is FAR too big, for a
> receiver. I wish I had noticed that, before I started to apply voltage. I
> did look, but I saw a fuse that didn't appear blown, and it never crossed my
> mind to check the amperage rating.
>> Now, based on my descriptions, considering I am selling the radio for a
> blind friend, would it be best to make it a project rig, or sell as a swap
> meet/tech special? I've already told him we likely need to just get rid of
> it, but there is a lot of it, that still looks to be very nice, so I hate
> the idea of it being parted out. It has the NB 4, the CW .25 filter and the
> CW 1.5 filter, as well as being very clean internally and externally, with
> no signs of abuse, the only anomaly I found, visually, is the band switch
> has the wrong knob. Otherwise, no signs of anything to lead me to believe we
> would find any issues, other than old capacitors.
>> If I were to turn it into a project, this would be my first radio project,
> since the 1970's, getting a Viking II back on the air, so I will likely be
> asking a bunch of questions, if it becomes that.
>> Thanks for the help to come.
>> Dan Galligan
>> W3RXO/W6
>> w3rxo@...<mailto:w3rxo%40mac.com>
>> Real radios glow in the dark
>> Member-Collins Collector's Assoc.
>> Member-Collins Radio Assoc.
>> Member-Amplitude Modulation Int'l.
>> Collector of Drake, Collins and other fine AMERICAN made, tube-type
> radios.

6152. Just a tip o' the cap

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 20:31:54 UTC
From: Dan Galligan
Topic: 6152 Message: 6152

I simply wanted to post here that I bought one of WA4NJY, Ed's, Drake microphones, and it arrived today, well packed and in great shape, just as he described. It was a deal I am very pleased with, and I wanted to let the group know that Ed is a great guy to deal with. Honest, thoughtful and considerate.
Thanks Ed, for being a "stand-up" kind of guy.

73,

Dan Galligan
W3RXO/W6
w3rxo@...
Real radios glow in the dark
Member-Collins Collector's Assoc.
Member-Collins Radio Assoc.
Member-Amplitude Modulation Int'l.
Collector of Drake, Collins and other fine AMERICAN made, tube-type radios.

[Non-text portions of this message have been removed]

6153. Re: [DrakeRadio] Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 21:01:02 UTC
From: Ted Peckler
Topic: 6141 Message: 6153

What I have found, pin 3 of tube V1 has no voltage, and checking the cable, that line is dead, must have a broken wire in it.

--- On Thu, 12/1/11, Garey Barrell <k4oah@...> wrote:

From: Garey Barrell <k4oah@mindspring.com>
Subject: Re: [DrakeRadio] Re: RV-4 & TR-4 problems
To: DrakeRadio@yahoogroups.com
Date: Thursday, December 1, 2011, 12:20 PM

Ted -

OK. sorry, that's a REALLY early TR-4. It has the 0A2 VR tube in it. There is NO Q3!! :-)

I still don't know of an variation with the TR-3 except for the jumper wire IN the TR-3. No matter,

you're using a TR-4......

You should measure very close to +150 VDC on Pin 1 of V2, and very close to +10 VDC on the 'other'

end of R15. While you're in there, check the voltages on Pins 3 and 8 of V1. They should measure

about 4.2 on Pin 8 and 42 on Pin 3.

73, Garey - K4OAH

Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

and TR-4/C Service Supplement CDs

<www.k4oah.com>

facsmart wrote:

> In the schematic that matches the RV-4 there are 2 transistors listed Q1& Q2 there is no Q3. R15& R17 are within tolerance. R16 also measures good.

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> --- In DrakeRadio@yahoogroups.com, Ted Peckler<facsmart@...> wrote:

>> I have a TR-4 not C model, and the RV-4 is not a C model. The instructions, say for a TR-3 place a 22K 2W resistor from the orange wire to the pin 1 of the 0A2. The schematic

shows this 22K 2W resistor going from the orange wire to a junction off 0A2. I see no transistors. The transistor must be in the VFO can.

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>> --- On Thu, 12/1/11, Garey Barrell<k4oah@...> wrote:

>>

>> From: Garey Barrell<k4oah@...>

>> Subject: Re: [DrakeRadio] Re: RV-4& TR-4 problems

>> To: DrakeRadio@yahoogroups.com

>> Date: Thursday, December 1, 2011, 9:34 AM

>>

>>

>> Ted -

>>

>>

>>

>> First question, is it an early or a late RV-4C. What power rated resistor is in place for R15.??

>>

>>

>>

>> If R15 has gone way up in value, -OR- Q3 has shorted, it would explain your symptoms.

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>>

>> R16, 22k 2W has no special TR-3 function. The only 'mod' to use with a TR-3 is in the TR-3 the

>>

>> jumper wire between pins 2 and 8 of the connector.

>>

>>

>>

>> 73, Garey - K4OAH

>>

>> Glen Allen, VA

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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line

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>> <www.k4oah.com>

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>> facsmart wrote:

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>>> Well the bulb issue is because I put a #47 in and it needs a #53, I've ordered the #53's. Still nothing from the VFO, and the resistor #R16 22K 2W, is that there for the TR-3? Not that I have a TR-3, but its a bit confusing the schematic shows the 22K 2W, and it's in the same place that you would add one if your using a TR-3. I'm confused.

>>> --- In DrakeRadio@yahoogroups.com, "facsmart"<facsmart@> wrote:

>>> I just got a RV-4 for my TR-4, I get nothing from the RV-4 rec, rec&trans, turn the vfo dial, nada, and it keeps blowing the light bulb.

>>>> My power supply has been rebuilt, and have had no problems with the TR-4. Help!

>>>> Ted ki6wik

[Non-text portions of this message have been removed]

6154. Re: RV-4 & TR-4 problems

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-01 21:37:54 UTC
From: facsmart
Topic: 6141 Message: 6154

Replaced the broken wire, I had to piggy back it to the harness so it was the same length as the original. It's alive!!!

--- In DrakeRadio@yahoogroups.com, Ted Peckler <facsmart@...> wrote:
>
> What I have found, pin 3 of tube V1 has no voltage, and checking the cable, that line is dead, must have a broken wire in it.
>
> --- On Thu, 12/1/11, Garey Barrell <k4oah@...> wrote:
>
> From: Garey Barrell <k4oah@...>
> Subject: Re: [DrakeRadio] Re: RV-4 & TR-4 problems
> To: DrakeRadio@yahoogroups.com
> Date: Thursday, December 1, 2011, 12:20 PM
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> Ted -
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> I still don't know of an variation with the TR-3 except for the jumper wire IN the TR-3. No matter,
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> you're using a TR-4......
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> You should measure very close to +150 VDC on Pin 1 of V2, and very close to +10 VDC on the 'other'
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> end of R15. While you're in there, check the voltages on Pins 3 and 8 of V1. They should measure
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> 73, Garey - K4OAH
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> >> Subject: Re: [DrakeRadio] Re: RV-4& TR-4 problems
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> >> To: DrakeRadio@yahoogroups.com
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> >> Date: Thursday, December 1, 2011, 9:34 AM
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> >> 73, Garey - K4OAH
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> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> >> and TR-4/C Service Supplement CDs
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> >> <www.k4oah.com>
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> >>>> My power supply has been rebuilt, and have had no problems with the TR-4. Help!
>

> >>>> Ted ki6wik
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> [Non-text portions of this message have been removed]
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6156. Re: Light bulb test

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-02 02:44:49 UTC
From: fred
Topic: 6135 Message: 6156

i have had better luck using a 25 watt bulb on the first test , it will light about 1/3 and slowly get brighter as the rectifier warms and the set starts taking current . the ecperiance I had using a 40 watt was that it would not light at all unless there was a heavy load . . used it to smoke test early 30's AC recceivers . you can change to a highrer wattage if needed. usually you won't need to .
andrew
kd5pnt

--- In DrakeRadio@...m, Garey Barrell <k4oah@...> wrote:
>
> I have no idea what it would take, as I never had enough to matter when that was my dummy load. I
> DID work a half dozen stations while loaded into a light bulb... :-)
>
> A guess would be about 20% over? Depends upon how long? 150% would probably take it out pretty quick.
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> When used as an equipment protector, it really doesn't matter what size bulb you use, as even a
> completely shorted transformer would cause it to light to ONLY full brilliance. Normally you try
> and use a bulb of approximately the power requirement of the unit under test. Most receivers work
> fine with a 40W bulb.
>
> 73, Garey - K4OAH
> Glen Allen, VA
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Terrell Hamilton wrote:
> > Hi, folks -
> >
> >
> >
> > Garey's comment about the light bulb started me to wonder how many watts a
> > 100 w bulb would take before failure. I've always used a dummy load, but
> > back in 1959 when I was a novice and using an ARC-5 and BC-348, that light
> > bulb trick was used by some of my friends as a dummy to load into - but how
> > much would it REALLY take, I wonder? (yes, I'm the kind of guy who likes
> > to watch the MythBusters blow stuff up...)
> >

> >
> >
> > Terry
> >
> > K7WLD
> >
> > Wenatchee, WA
> >
> >
> >
> > From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On
> > Behalf Of Garey Barrell
> > Sent: Thursday, 01 December, 2011 08:39
> > To: DrakeRadio@yahoogroups.com
> > Subject: Re: [DrakeRadio] I think I may have had a fatal failure
> >
> >
> >
> >
> >
> > Once again, I'll take a light bulb any day over ANY silly 50 step Variac
> > procedure.....
> >
> > FIRST THING WITH A 'NEW' PIECE _CHECK THE FUSE_...
> >
> > Live and learn...
> >
> > 73, Garey - K4OAH
> > Glen Allen, VA
> >
> > Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> > and TR-4/C Service Supplement CDs
> > <www.k4oah.com>
> >
> > Dan Galligan wrote:
> >> I had mentioned a couple of weeks ago, that I had a blind friend, whom I
> > would be helping sell some radios. He HAD a 2B and a 2A-Q Multiplier, which
> > he got sold on his own. There was a mostly very nice condition Drake R4C,
> > which he and a friend had briefly began to bring up on a variac, but it blew
> > the fuse, when they plugged in the headphones (they didn't have a speaker
> > with an RCA plug). Obviously, they stopped at that point. I went up to his
> > home Monday night and picked up a BUNCH of old stuff, some of it NOS in
> > boxes, much of it Boat-anchor-ish, the smallest radio, being a Heath HW-8,
> > and the newest, being a nice shape FT901DM, including the R4C, and what
> > appears to be a very nicely built, homebrew, 500 watt CW transmitter.
> >> I brought it all to my house, and started getting it all un-dusty, and
> > ready to check out. I connected a 4 ohm speaker, plugged the R4C into my
> > variac, and brought it up to 20, then 50 then 70, then 100 volts, moving
> > slowly between each step, and letting it sit for several minutes at each of
> > those voltages. there was a 60hz buzz, from the speaker, the entire time.

> > When it looked like all was going pretty well, other than the 60hz hum, and
> > I had gotten to 100VAC, I stepped out of the room, for some water. When I
> > stepped back in the room, (about 5 minutes later) it was smoking, from the
> > right rear, so I immediately unplugged it from my variac. The transformer
> > inside, continued smoking, long enough, that I was beginning to worry there
> > was an actual fire, so I checked closely, and had none. I let it sit, rest
> > and cool, for some time, and more than a half hour later, I removed the top
> > cover, and the transformer was still HOT to the touch. I looked closely in
> > there, and did not see anything, other than the forward, left corner, of the
> > transformer, which had melted paint.
> >> NOW, my question. Can any of you, far more knowledgeable folks, point me
> > towards where to look for the root cause of the problem? A compounding
> > factor, was too heavy of a fuse. Apparently, when it blew the fuse for them,
> > someone replaced it with an AGC30, which I believe is FAR too big, for a
> > receiver. I wish I had noticed that, before I started to apply voltage. I
> > did look, but I saw a fuse that didn't appear blown, and it never crossed my
> > mind to check the amperage rating.
> >> Now, based on my descriptions, considering I am selling the radio for a
> > blind friend, would it be best to make it a project rig, or sell as a swap
> > meet/tech special? I've already told him we likely need to just get rid of
> > it, but there is a lot of it, that still looks to be very nice, so I hate
> > the idea of it being parted out. It has the NB 4, the CW .25 filter and the
> > CW 1.5 filter, as well as being very clean internally and externally, with
> > no signs of abuse, the only anomaly I found, visually, is the band switch
> > has the wrong knob. Otherwise, no signs of anything to lead me to believe we
> > would find any issues, other than old capacitors.
> >> If I were to turn it into a project, this would be my first radio project,
> > since the 1970's, getting a Viking II back on the air, so I will likely be
> > asking a bunch of questions, if it becomes that.
> >> Thanks for the help to come.
> >> Dan Galligan
> >> W3RXO/W6
> >> w3rxo@...<mailto:w3rxo%40mac.com>
> >> Real radios glow in the dark
> >> Member-Collins Collector's Assoc.
> >> Member-Collins Radio Assoc.
> >> Member-Amplitude Modulation Int'l.
> >> Collector of Drake, Collins and other fine AMERICAN made, tube-type
> > radios.
>

6157. Drake MN 2700 Capacitor needed.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-02 04:11:32 UTC
From: kevin gray
Topic: 6157 Message: 6157

Hello I have a Drake MN 2700 that has a Blown 170 pF transmitting capacitor. This is one of the bank of capacitors located under the Reactive Variable Capacitor toward the back of the tuner. They are Rectangular 1¼ inch wide by 1 inch high and have small bolt holes for mounting

Thanks

Kevin

K8SU

[Non-text portions of this message have been removed]

6158. Specially For You

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-02 22:45:13 UTC
From: ALAN PHILLIPS
Topic: 6158 Message: 6158

Hi, you have to check this http://omapage.com/inf.php Enjoy!

6159. TR-7 for parts or repair - Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-02 23:45:35 UTC
From: n0va1994
Topic: 6159 Message: 6159

The frequency display went blank again and I do not feel like pulling the connectors and the DR-7 board again. This one has the NB-7 noise blanker and filters SL6000, SL2300, SL1800 and the 300Hz CW filter.

Anyone care to make an offer for the transceiver plus whatever exact shipping will be? Also have the power supply. Hate the thought of packing this heavy weight but it needs a new home.

Email me if interested

6160. Re: [DrakeRadio] TR-7 for parts or repair - Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-03 00:21:34 UTC
From: Joe
Topic: 6159 Message: 6160

Where are you located and is N0VA your call?

Joe Wolfe - WA6RKN

----- Original Message -----
From: "n0va1994" <kennymoses@...>
Subject: [DrakeRadio] TR-7 for parts or repair - Display

> The frequency display went blank again and I do not feel like pulling the
> connectors and the DR-7 board again. This one has the NB-7 noise blanker
> and filters SL6000, SL2300, SL1800 and the 300Hz CW filter.
>
> Anyone care to make an offer for the transceiver plus whatever exact
> shipping will be? Also have the power supply. Hate the thought of packing
> this heavy weight but it needs a new home.
>
> Email me if interested

6161. Re: TR-7 for parts or repair - Display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-03 01:46:50 UTC
From: n0va1994
Topic: 6159 Message: 6161

I am located in Grand Junction CO and N0VA is my call.

--- In DrakeRadio@yahoogroups.com, Joe <WA6RKN@...> wrote:
>
> Where are you located and is N0VA your call?
>
> Joe Wolfe - WA6RKN
>
> ----- Original Message -----
> From: "n0va1994" <kennymoses@...>
> Subject: [DrakeRadio] TR-7 for parts or repair - Display
>
>
> > The frequency display went blank again and I do not feel like pulling the
> > connectors and the DR-7 board again. This one has the NB-7 noise blanker
> > and filters SL6000, SL2300, SL1800 and the 300Hz CW filter.
> >
> > Anyone care to make an offer for the transceiver plus whatever exact
> > shipping will be? Also have the power supply. Hate the thought of packing
> > this heavy weight but it needs a new home.
> >
> > Email me if interested
>

6162. Drake 2-B and 2-C Differences

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-03 03:05:20 UTC
From: w4rl@bellsouth.net
Topic: 6162 Message: 6162

Hi Fellas from Pensacola FL.

Never owning a Drake 2-B before but a very good condition 2-C in my radio shack for many years, I've often wondered what the electrical differences were between the two receivers.

Of note: I have a 2-BQ matched up to my 2-C and find that the 2-CQ is a carbon copy of the 2-BQ electrically.

tnx es 73. Merry Christmas

Robert W4RL

6163. Re: [DrakeRadio] Drake 2-B and 2-C Differences

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-03 03:18:48 UTC
From: Garey Barrell
Topic: 6162 Message: 6163

Hi Robert -

The biggest operational difference is that the 'C' does NOT have Passband Tuning. It also is solid
state from the Last IF on. The BAND Oscillator, all the AVC, Detector and audio is silicon. This
makes the 'C' a serious downgrade from the 'B', at least in my opinion. The dial mechanism is a
little nicer, but other than that, no contest!

Yes, the 2-AQ, 2-BQ and 2-CQ are essentially identical electrically, and not far from the old
Heathkit QF-1... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w4rl@... wrote:
> Hi Fellas from Pensacola FL.
>
> Never owning a Drake 2-B before but a very good condition 2-C in my radio shack for many years, I've often wondered what the electrical differences were between the two receivers.
>
> Of note: I have a 2-BQ matched up to my 2-C and find that the 2-CQ is a carbon copy of the 2-BQ electrically.
>
> tnx es 73. Merry Christmas
>
> Robert W4RL
>

6164. Re: [DrakeRadio] Drake 2-B and 2-C Differences

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-03 03:30:00 UTC
From: Dennis Weal
Topic: 6162 Message: 6164

I had a 2-B for over 10 years. Sold it to buy a R4-B. Love my R4-B but still miss my 2-B. TOOBS forever!!

Denny

w4eal

Hi Robert -

The biggest operational difference is that the 'C' does NOT have Passband Tuning. It also is solid
state from the Last IF on. The BAND Oscillator, all the AVC, Detector and audio is silicon. This
makes the 'C' a serious downgrade from the 'B', at least in my opinion. The dial mechanism is a
little nicer, but other than that, no contest!

Yes, the 2-AQ, 2-BQ and 2-CQ are essentially identical electrically, and not far from the old
Heathkit QF-1... :-)

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

w4rl%40bellsouth.net wrote:
> Hi Fellas from Pensacola FL.
>
> Never owning a Drake 2-B before but a very good condition 2-C in my radio shack for many years, I've often wondered what the electrical differences were between the two receivers.
>
> Of note: I have a 2-BQ matched up to my 2-C and find that the 2-CQ is a carbon copy of the 2-BQ electrically.
>
> tnx es 73. Merry Christmas
>
> Robert W4RL
>

[Non-text portions of this message have been removed]

6166. Re: [DrakeRadio] hijacked email do not open any links or attachments from me

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 04:02:24 UTC
From: Jim Wilhite
Topic: 6165 Message: 6166

The best way to avoid this problem is not to keep contact information on web based email programs or servers. Keep them on your resident email program then copy and paste into your messages. It is a bit of a hassle but it saves you and all of us from this type of thing.

Jim/W5JO

From: ALAN PHILLIPS <kc9ys@...t>
To: donv@...
Sent: Sunday, December 4, 2011 9:31 PM
Subject: [DrakeRadio] hijacked email do not open any links or attachments from me

On Friday, a business pc hijacked my email account and password and sent a link for a pharmacy that was bogus with hidden exploits to everyone in my mail directory.

One of my friends noticed that he received an email from another source containing the same infected link. If you opened the link, here are some online virus scanners that will scan your pc. If you did NOT open the link, you are safe if you delete the email.

If you wish to download a good anti-malware and anti-virus app, you can download and run malwarebytes below.

Sorry for the inconvenience. If your email gets hijacked, like mine did, you must change your email account password to stop the bot from emailing your directory contact lists.

regards... Al.

[Non-text portions of this message have been removed]

6167. Re: [DrakeRadio] hijacked email do not open any links or attachments from me

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 04:32:13 UTC
From: Jim Shorney
Topic: 6165 Message: 6167

Unfortunately, this is not strictely a webmail problem. Your advice is good, but these cretins can also harvest information and spoof email addresses from M$ Outlook directly if the host computer becomes infected. The best solution is to not use webmail OR M$ Outhouse. There are plenty of alternative email clients out there that are not as vulnerable.Thunderbird and the Seamonkey suite are two that come ti mind.

73

-Jim

On Sun, 4 Dec 2011 20:02:24 -0800 (PST), Jim Wilhite wrote:

>The best way to avoid this problem is not to keep contact information on web based email programs or servers.Â Keep them on your resident email program then copy and paste into your messages.Â It is a bit of a hassle but it saves you and all of us from this type of thing.

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6168. New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 16:49:54 UTC
From: DrakeRadio@yahoogroups.com
Topic: 14 Message: 6168

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DrakeRadio
group.

File : /Alignment and Test Procedure with handwritten notes.PDF
Uploaded by : n8qnm <n8qnm@...>
Description : TR4 Align Test 2-3-1966

You can access this file at the URL:
http://groups.yahoo.com/group/DrakeRadio/files/Alignment%20and%20Test%20Procedure%20with%20handwritten%20notes.PDF

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

n8qnm <n8qnm@...>

6169. What is this file?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 16:52:00 UTC
From: n8qnm
Topic: 6169 Message: 6169

I just uploaded a PDF of a TR4 Alignment and Test Procedure dated Feb. 3, 1966 with handwritten notes. I wonder just what this document is because the gentleman I obtained it from may have gotten it directly from Drake techs.

Larry N8QNM

6170. Re: [DrakeRadio] What is this file?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 16:57:09 UTC
From: Keith Evans
Topic: 6169 Message: 6170

Hi Larry,
Thanks for that, looks very useful.
73
Keith G3VKW

----- Original Message -----
From: n8qnm
To: DrakeRadio@yahoogroups.com
Sent: Monday, December 05, 2011 4:52 PM
Subject: [DrakeRadio] What is this file?

I just uploaded a PDF of a TR4 Alignment and Test Procedure dated Feb. 3, 1966 with handwritten notes. I wonder just what this document is because the gentleman I obtained it from may have gotten it directly from Drake techs.

Larry N8QNM

[Non-text portions of this message have been removed]

6171. Re: [DrakeRadio] What is this file?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-05 17:16:02 UTC
From: Garey Barrell
Topic: 6169 Message: 6171

Larry -

Gold mine!! Hopefully 'Station #1' is just a physical examination! :-)

Sure looks like a final Alignment and Test Procedure to me. Should also apply to just about all the
TR-4C models too, excepting CW and CwRIT features.

I especially like things like Station #3, Section 6!

Thanks for posting...

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

n8qnm wrote:
> I just uploaded a PDF of a TR4 Alignment and Test Procedure dated Feb. 3, 1966 with handwritten notes. I wonder just what this document is because the gentleman I obtained it from may have gotten it directly from Drake techs.
>
> Larry N8QNM
>
>

6172. Re: What is this file?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-06 13:25:56 UTC
From: Larry Sack
Topic: 6169 Message: 6172

The gentleman I got my TR 4 from was a physicist at Wright Patterson AFB here in Dayton, Ohio. He had the distinction on being on the team that scoured Germany for high technology after WW II. He once told me that if he took anything into work at Wright Labs, he couldn't bring it back out. Anyway, I believe he knew people at Drake.

Glad the group might find this of use; I thought the handwritten notes would be of interest too. They appear to add the NB in parts.

Larry, N8QNM

[Non-text portions of this message have been removed]

6173. Re: New file uploaded to DrakeRadio

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-06 13:42:14 UTC
From: PaulG
Topic: 14 Message: 6173

--- In DrakeRadio@yahoogroups.com, DrakeRadio@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the DrakeRadio
> group.
>
> File : /Alignment and Test Procedure with handwritten notes.PDF
> Uploaded by : n8qnm <n8qnm@...>
> Description : TR4 Align Test 2-3-1966
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/DrakeRadio/files/Alignment%20and%20Test%20Procedure%20with%20handwritten%20notes.PDF
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> n8qnm <n8qnm@...>
>
Thanks for uploading the TR4 Alignment and Test Procedure. It will be useful when I get to working on my 'project' TR4 Again.

6174. can the TR7 be used as a simple frequency counter??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-06 20:15:11 UTC
From: cd40105
Topic: 6174 Message: 6174

Hi Merry Christmas...is it possible touse the digital display in the TR7 as a simple frequency counter??thanks 73 de ian..YRQ.

6175. Re: [DrakeRadio] can the TR7 be used as a simple frequency counter??

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-06 20:17:48 UTC
From: Don Cunningham
Topic: 6174 Message: 6175

Yes, there is a switch on the rear labeled "norm/ext" and an RCA jack just below that switch that you can use to access the counter. I don't remember the limitations (it's in the manual that I don't have handy), but be careful how much you put into that jack.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6176. T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-08 20:38:17 UTC
From: k4elo
Topic: 6176 Message: 6176

Sick T-4XB. Normal rf output 40M and up.
80M very low drive, maybe 10W output. 160M nothing.
All tubes check ok.

Any suggestions welcome.
73
Wayne
K4ELO

6177. Re: [DrakeRadio] T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-08 22:57:10 UTC
From: Garey Barrell
Topic: 6176 Message: 6177

Wayne -

Does the RF TUNE peak where it should?

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

k4elo wrote:
> Sick T-4XB. Normal rf output 40M and up.
> 80M very low drive, maybe 10W output. 160M nothing.
> All tubes check ok.
>
> Any suggestions welcome.
> 73
> Wayne
> K4ELO
>

6178. Re: [DrakeRadio] T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-08 23:01:38 UTC
From: Garey Barrell
Topic: 6176 Message: 6178

Wayne -

Couple of other things....

Is the transmitter 'new' to you, or did it just stop working?

If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

k4elo wrote:
> Sick T-4XB. Normal rf output 40M and up.
> 80M very low drive, maybe 10W output. 160M nothing.
> All tubes check ok.
>
> Any suggestions welcome.
> 73
> Wayne
> K4ELO
>

6179. Re: T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-08 23:41:41 UTC
From: k4elo
Topic: 6176 Message: 6179

Yes Garey, rf tune peaks on 80M where it should but it is a very little peak. No peak on 160M. No, gear is not new to me, but I have never used it on the low bands before. If I switch from separate to rcvr, I get no peak at all. Switching to xmit, I get a little peak like separate.

Jeff Covelli went through the tx and rx a couple of years ago and said all was working well when he was finished.

73
Wayne

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wayne -
>
> Couple of other things....
>
> Is the transmitter 'new' to you, or did it just stop working?
>
> If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> k4elo wrote:
> > Sick T-4XB. Normal rf output 40M and up.
> > 80M very low drive, maybe 10W output. 160M nothing.
> > All tubes check ok.
> >
> > Any suggestions welcome.
> > 73
> > Wayne
> > K4ELO
> >
>

6180. Re: [DrakeRadio] Re: T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 04:20:41 UTC
From: Garey Barrell
Topic: 6176 Message: 6180

Wayne -

OK.. Almost certainly a bandswitch problem. Possibly just exercising
the switch through those positions. If not perhaps a judicious
application of DeoxIT to the appropriate contacts. Don't forget the
ones over by the BAND oscillator (where the crystals are.)

Remember that you need an additional optional crystal for 160M, and have
to select one of the auxiliary NORMAL positions where that crystal is
installed.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

k4elo wrote:
> Yes Garey, rf tune peaks on 80M where it should but it is a very little peak. No peak on 160M. No, gear is not new to me, but I have never used it on the low bands before. If I switch from separate to rcvr, I get no peak at all. Switching to xmit, I get a little peak like separate.
>
> Jeff Covelli went through the tx and rx a couple of years ago and said all was working well when he was finished.
>
> 73
> Wayne
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Wayne -
>>
>> Couple of other things....
>>
>> Is the transmitter 'new' to you, or did it just stop working?
>>
>> If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?
>>
>> --
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs

>> <www.k4oah.com>
>>
>>
>> k4elo wrote:
>>> Sick T-4XB. Normal rf output 40M and up.
>>> 80M very low drive, maybe 10W output. 160M nothing.
>>> All tubes check ok.
>>>
>>> Any suggestions welcome.
>>> 73
>>> Wayne
>>> K4ELO
>>>

6181. Re: T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 16:34:03 UTC
From: k4elo
Topic: 6176 Message: 6181

Ok on the 160M Garey. I had forgotten that. Just haven't used the Drakes enough lately.

I did clean the bandswitch with Deoxit and exercise it quite a bit. No joy.
Ordered replacement tubes, so I'll try some substitutions even though the ones in the tx check ok on my tv-7d/u tester.

73
Wayne

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wayne -
>
> OK.. Almost certainly a bandswitch problem. Possibly just exercising
> the switch through those positions. If not perhaps a judicious
> application of DeoxIT to the appropriate contacts. Don't forget the
> ones over by the BAND oscillator (where the crystals are.)
>
> Remember that you need an additional optional crystal for 160M, and have
> to select one of the auxiliary NORMAL positions where that crystal is
> installed.
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> k4elo wrote:
> > Yes Garey, rf tune peaks on 80M where it should but it is a very little peak. No peak on 160M. No, gear is not new to me, but I have never used it on the low bands before. If I switch from separate to rcvr, I get no peak at all. Switching to xmit, I get a little peak like separate.
> >
> > Jeff Covelli went through the tx and rx a couple of years ago and said all was working well when he was finished.
> >
> > 73
> > Wayne
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >> Wayne -
> >>

> >> Couple of other things....
> >>
> >> Is the transmitter 'new' to you, or did it just stop working?
> >>
> >> If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?
> >>
> >> --
> >> 73, Garey - K4OAH
> >> St Charles, IL
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> k4elo wrote:
> >>> Sick T-4XB. Normal rf output 40M and up.
> >>> 80M very low drive, maybe 10W output. 160M nothing.
> >>> All tubes check ok.
> >>>
> >>> Any suggestions welcome.
> >>> 73
> >>> Wayne
> >>> K4ELO
> >>>
>

6182. Hacked!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 17:13:05 UTC
From: jb
Topic: 6182 Message: 6182

Sorry guys! Just got a whole list of returns for unable to send and this group was in the bunch. Didn't come from these fingertips.

Humbly apologize. Didn't latch on to anything I wasn't supposed to but they got me!

God bless
73
jb
kg6biw

6183. looking for twins

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 17:52:11 UTC
From: yash@aol.com
Topic: 6183 Message: 6183

looking for a set of twins,will consider every version, but a C-line. need to be basically operational and non smoker.
thanks
dale wt4t

[Non-text portions of this message have been removed]

6184. TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 20:15:36 UTC
From: Gary Woods
Topic: 6184 Message: 6184

Well, I figured out that reseating the upconverter board restored full power and Rx sensitivity, but now the display shows only a decimal point. The aftermarket display board is correctly snugly plugged in, the scan signals all look reasonable, and the protective circuit is not activated. What really, really dumb thing am I overlooking? I have good output and Rx now...
TIA,

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6185. Re: [DrakeRadio] Re: T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 21:51:34 UTC
From: Garey Barrell
Topic: 6176 Message: 6185

Wayne -

OK. It's not going to be a tube.

Check the manual for the alignment instructions. Tune up in TUNE
position. Keep the resonant plate current under 200 mA and monitor the
output power. The four trimmers along the left side of the transmitter
that are marked 3.5 MHz can be tweaked. Be careful to use an insulated
tool to adjust them, as shorting one to the chassis even momentarily can
destroy a resistor in the transmitter. Note their position, turn a
quarter turn and see what happens. If no change, return it to it's
original position and try the next one. The two trimmers nearest the
rear of the transmitter are the Driver Grid and Plate adjustments. The
other two are for the Premixer and less likely to be the problem here.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

k4elo wrote:
> Ok on the 160M Garey. I had forgotten that. Just haven't used the Drakes enough lately.
>
> I did clean the bandswitch with Deoxit and exercise it quite a bit. No joy.
> Ordered replacement tubes, so I'll try some substitutions even though the ones in the tx
check ok on my tv-7d/u tester.
>
> 73
> Wayne
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Wayne -
>>
>> OK.. Almost certainly a bandswitch problem. Possibly just exercising
>> the switch through those positions. If not perhaps a judicious
>> application of DeoxIT to the appropriate contacts. Don't forget the
>> ones over by the BAND oscillator (where the crystals are.)
>>
>> Remember that you need an additional optional crystal for 160M, and have
>> to select one of the auxiliary NORMAL positions where that crystal is
>> installed.
>>
>> --

>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
>>
>> k4elo wrote:
>>> Yes Garey, rf tune peaks on 80M where it should but it is a very little peak. No peak on 160M. No, gear is not new to me, but I have never used it on the low bands before. If I switch from separate to rcvr, I get no peak at all. Switching to xmit, I get a little peak like separate.
>>>
>>> Jeff Covelli went through the tx and rx a couple of years ago and said all was working well when he was finished.
>>>
>>> 73
>>> Wayne
>>>
>>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
>>>> Wayne -
>>>>
>>>> Couple of other things....
>>>>
>>>> Is the transmitter 'new' to you, or did it just stop working?
>>>>
>>>> If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?
>>>>
>>>> --
>>>> 73, Garey - K4OAH
>>>> St Charles, IL
>>>>
>>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>>>> and TR-4/C Service Supplement CDs
>>>> <www.k4oah.com>
>>>>
>>>>
>>>> k4elo wrote:
>>>>> Sick T-4XB. Normal rf output 40M and up.
>>>>> 80M very low drive, maybe 10W output. 160M nothing.
>>>>> All tubes check ok.
>>>>>
>>>>> Any suggestions welcome.
>>>>> 73
>>>>> Wayne
>>>>> K4ELO
>>>>>
>
>

>
> ------------------------------------
>
> Yahoo! Groups Links
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>

6186. Re: [DrakeRadio] TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 21:39:23 UTC
From: Bob Wade
Topic: 6184 Message: 6186

What does the display look like when the switch in the rear is in Frequency Counter mode?

Bob - W6RTW

Sent from my iPhone

On Dec 9, 2011, at 12:15 PM, Gary Woods <garygarlic@...> wrote:

> Well, I figured out that reseating the upconverter board restored full
> power and Rx sensitivity, but now the display shows only a decimal point.
> The aftermarket display board is correctly snugly plugged in, the scan
> signals all look reasonable, and the protective circuit is not activated.
> What really, really dumb thing am I overlooking? I have good output and Rx
> now...
> TIA,
>
> --
> Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
> Zone 5/4 in upstate New York, 1420' elevation. NY WO G
>

[Non-text portions of this message have been removed]

6187. Re: [DrakeRadio] TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-09 22:43:27 UTC
From: Gary Woods
Topic: 6184 Message: 6187

On Fri, 9 Dec 2011 13:39:23 -0800, you wrote:

>What does the display look like when the switch in the rear is in Frequency Counter mode?

The same, unfortunately... and when I put 10MHz TTL-level in the external
input and select Frequency Counter mode, nothing different happens.

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6188. Re: [DrakeRadio] TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 00:59:04 UTC
From: Bill Frost
Topic: 6184 Message: 6188

Hello,

release the STORE button

73, Bill

From: Gary Woods <garygarlic@...>
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 9, 2011 3:15 PM
Subject: [DrakeRadio] TR-7 display puzzlement

Well, I figured out that reseating the upconverter board restored full
power and Rx sensitivity, but now the display shows only a decimal point.
The aftermarket display board is correctly snugly plugged in, the scan
signals all look reasonable, and the protective circuit is not activated.
What really, really dumb thing am I overlooking? I have good output and Rx
now...
TIA,

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6189. R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 09:21:26 UTC
From: mike
Topic: 6189 Message: 6189

I'm hoping someone can help me... as you all know, the R-4B (& most other Drakes) have Fast & Slow AGC options for SSB, but AM is fixed at Slow.

I want to change mine to be fixed at Fast instead. I've studied the schematic & finally deciphered the switch wafer positions (I think) but I'm still not sure what needs to be changed to alter the AM setting without upsetting the SSB positions.

Can't be hard, surely?

Has anyone done this mod already?

73,
Mike
M0MLM

6190. Re: [DrakeRadio] R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 15:31:12 UTC
From: Garey Barrell
Topic: 6189 Message: 6190

Mike -

I maybe missing something, I don't have a receiver with me to look at,
but looking at the schematic it looks like the way to do it is to lift
R81. I'm not sure, it's hard to tell just what the switch wiper
blades will cover.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

mike wrote:
> I'm hoping someone can help me... as you all know, the R-4B (& most other Drakes) have Fast& Slow AGC options for SSB, but AM is fixed at Slow.
>
> I want to change mine to be fixed at Fast instead. I've studied the schematic& finally deciphered the switch wafer positions (I think) but I'm still not sure what needs to be changed to alter the AM setting without upsetting the SSB positions.
>
> Can't be hard, surely?
>
> Has anyone done this mod already?
>
> 73,
> Mike
> M0MLM
>

6191. Re: [DrakeRadio] TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:11:30 UTC
From: Gary Woods
Topic: 6184 Message: 6191

On Fri, 9 Dec 2011 16:59:04 -0800 (PST), you wrote:

>release the STORE button

I had checked that, and even unplugged the connector to it (it just grounds
the load/update strobe) to no avail. BUT: the strobe is missing, and
waveforms in the vicinity look weird, so thanks for pointing out the area.
Will dig deeper after doing seasonal things like stringing lights, etc.

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6192. TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:22:27 UTC
From: fred
Topic: 5734 Message: 6192

recently obtained a D-104 night eagle to use with the TR-3 . do I need to bypass the anplifier in the microphone base before I try it ?
anyone have a diagramme for the mike ?

andrew
kd5pnt

6193. Re: R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:23:02 UTC
From: mike
Topic: 6189 Message: 6193

Hi Garey, I was hoping you'd respond... much appreciated.

I've pored over the schematic &, as you say, it's pretty hard to see just what the switch is doing.

I *think* this is what's happening:

Fast SSB - the blade is inbetween ALL the contacts, i.e. NO connections.
Slow SSB - R81 connected to R143 & C109
AM - Blade connecting to Q4 collector, but to me it looks like there is no longer a blade connection to R143, but I think there must be, to keep the 0.22uF in circuit & give the slow response.

If I'm right, then the only way I can see to speed up the AM AGC (& not alter the SSB AGC) is to insert a largish R in the top switch contact (AM position) to reduce the effect of R143/C100.

Certainly an easier way to do it is to reduce C109, as I don't use the SSB Slow AGC either, but I'd rather leave it as it is.

When I eventually open up the set then I expect it will become clearer, but there's too much to move/unplug at the moment. :)

73,
Mike

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> I maybe missing something, I don't have a receiver with me to look at,
> but looking at the schematic it looks like the way to do it is to lift
> R81. I'm not sure, it's hard to tell just what the switch wiper
> blades will cover.
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> mike wrote:
> > I'm hoping someone can help me... as you all know, the R-4B (& most other Drakes) have Fast& Slow AGC options for SSB, but AM is fixed at Slow.
> >
> > I want to change mine to be fixed at Fast instead. I've studied the schematic& finally deciphered the switch wafer positions (I think) but I'm still not sure what needs to be changed to alter the AM setting without upsetting the SSB positions.

6194. Re: [DrakeRadio] Re: R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:47:38 UTC
From: Garey Barrell
Topic: 6189 Message: 6194

Mike -

No, both the SLOW and the AM positions connect R81 to R143. The blades
are 'double wide' on both sides. So lifting R81 will convert SLOW and
AM both to FAST. To get SLOW on CW and FAST on AM you'd have to remove
half of the wiper blade on either side! Not an easy task. I suppose it
could be done with a Dremel, but I'd want a spare wafer!! :-)

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

mike wrote:
>
>
> Hi Garey, I was hoping you'd respond... much appreciated.
>
> I've pored over the schematic&, as you say, it's pretty hard to see just what the switch is doing.
>
> I *think* this is what's happening:
>
> Fast SSB - the blade is inbetween ALL the contacts, i.e. NO connections.
> Slow SSB - R81 connected to R143& C109
> AM - Blade connecting to Q4 collector, but to me it looks like there is no longer a blade connection to R143, but I think there must be, to keep the 0.22uF in circuit& give the slow response.
>
> If I'm right, then the only way I can see to speed up the AM AGC (& not alter the SSB AGC) is to insert a largish R in the top switch contact (AM position) to reduce the effect of R143/C100.
>
> Certainly an easier way to do it is to reduce C109, as I don't use the SSB Slow AGC either, but I'd rather leave it as it is.
>
> When I eventually open up the set then I expect it will become clearer, but there's too much to move/unplug at the moment. :)
>
> 73,
> Mike
>
>

>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Mike -
>>
>> I maybe missing something, I don't have a receiver with me to look at,
>> but looking at the schematic it looks like the way to do it is to lift
>> R81. I'm not sure, it's hard to tell just what the switch wiper
>> blades will cover.
>>
>> --
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> mike wrote:
>>> I'm hoping someone can help me... as you all know, the R-4B (& most other Drakes) have Fast& Slow AGC options for SSB, but AM is fixed at Slow.
>>>
>>> I want to change mine to be fixed at Fast instead. I've studied the schematic& finally deciphered the switch wafer positions (I think) but I'm still not sure what needs to be changed to alter the AM setting without upsetting the SSB positions.
>
>
>
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>
> Yahoo! Groups Links
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>

6195. Re: R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:56:00 UTC
From: mike
Topic: 6189 Message: 6195

I'm getting a headache!

I've decided to stop thinking about it until I can open up the set & find out precisely what goes on at each switch position.

I'll report back then.

73,
Mike

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Mike -
>
> No, both the SLOW and the AM positions connect R81 to R143. The blades
> are 'double wide' on both sides. So lifting R81 will convert SLOW and
> AM both to FAST. To get SLOW on CW and FAST on AM you'd have to remove
> half of the wiper blade on either side! Not an easy task. I suppose it
> could be done with a Dremel, but I'd want a spare wafer!! :-)
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> mike wrote:
> >
> >
> > Hi Garey, I was hoping you'd respond... much appreciated.
> >
> > I've pored over the schematic&, as you say, it's pretty hard to see just what the switch is doing.
> >
> > I *think* this is what's happening:
> >
> > Fast SSB - the blade is inbetween ALL the contacts, i.e. NO connections.
> > Slow SSB - R81 connected to R143& C109
> > AM - Blade connecting to Q4 collector, but to me it looks like there is no longer a blade connection to R143, but I think there must be, to keep the 0.22uF in circuit& give the slow response.
> >
> > If I'm right, then the only way I can see to speed up the AM AGC (& not alter the SSB

AGC) is to insert a largish R in the top switch contact (AM position) to reduce the effect of R143/C100.
> >
> > Certainly an easier way to do it is to reduce C109, as I don't use the SSB Slow AGC either, but I'd rather leave it as it is.
> >
> > When I eventually open up the set then I expect it will become clearer, but there's too much to move/unplug at the moment. :)

6196. Re: [DrakeRadio] Re: R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 16:59:31 UTC
From: Don Cunningham
Topic: 6189 Message: 6196

Garey,
Whilst you are going about your normal "good guy" helping, and the topic is AM on the R-4B, would you mind sharing with me and others if they are interested what you would think to be an "easy" way to widen the 4.8 filter position a bit?? 4.8kc is just a bit "pinched" and 6 to 8kc with that nice, Drake tube audio would really sound great!!

I realize that I should know at least a "crude" way, but your solutions are always easier to implement and much more "elegant", as my British friends say, hi.
73, and Merry Christmas Garey,
Don, WB5HAK

[Non-text portions of this message have been removed]

6197. Re: [DrakeRadio] Re: R-4B AGC (AVC) on AM

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 17:24:21 UTC
From: Garey Barrell
Topic: 6189 Message: 6197

Hi Don -

About the only way would be to bypass the Passband Tuner, (Plate of V4 to the Grid of V5,) with a 0.001 or 0.01. It's possible that you could leave the PB tuner in place, just 'go around' it, but it might be necessary to lift the output from the Grid of V5. This would set the IF at 8 kHz, the b/w of the four pole 'roofing' filter (T6). You'd have to look, but it might be possible to rig a microswitch to add the coupling cap when you turn the PB tuner knob to 6 o'clock. You might also end up with some 'blow-by' of out of passband signals depending upon lead length, switch capacity, etc. Certainly not a 'plug-and-play' mod, but probably could be done.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Don Cunningham wrote:
> Garey,
> Whilst you are going about your normal "good guy" helping, and the topic is AM on the R-4B, would you mind sharing with me and others if they are interested what you would think to be an "easy" way to widen the 4.8 filter position a bit?? 4.8kc is just a bit "pinched" and 6 to 8kc with that nice, Drake tube audio would really sound great!!
>
> I realize that I should know at least a "crude" way, but your solutions are always easier to implement and much more "elegant", as my British friends say, hi.
> 73, and Merry Christmas Garey,
> Don, WB5HAK
>

6198. R-4B and other items.

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 17:58:36 UTC
From: Don Cunningham
Topic: 6198 Message: 6198

Thanks, Garey. I was afraid widening AM on the R-4B wasn't as easy as "change Cxx to .0xx from .0x". What you describe is too much of a "mod" to the rig for my liking, but what I expected. I have other rigs that I can use on AM, so I won't harm a good R-4B to do it and will just use the R-4B as it was designed. It was just a thought.

For those inclined to "tinker" and "restore" Drake equipment, stay tuned after the first of the year. I will be offering some gear for sale, both 4 and 7 line, to the Drake lists first in differing degrees of needing TLC. I don't know exactly what or how many yet, but I need to DOWNSIZE greatly and have decided I won't try to fix them all then sell them, so you can save some funds and have fun at the same time!!! Some will be in perfect working condition. This is NOT a "fire sale" however, so don't expect them to be giveaways. I DO tell what I know about each one, and will provide pictures to serious requesters.

More to follow, but after the holidays.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6199. Re: [DrakeRadio] TR-7 display puzzlement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 18:57:31 UTC
From: Gary Woods
Topic: 6184 Message: 6199

On Sat, 10 Dec 2011 11:11:30 -0500, you wrote:

>BUT: the strobe is missing, and
>waveforms in the vicinity look weird,

Followup: a trace carrying the update strobe was damaged right next to one
of the holes for the board puller....doubtless a self-induced fault. All
is well now!

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6200. No TR-7 display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 22:49:50 UTC
From: Teran Hermanson
Topic: 6184 Message: 6200

Reading the mail on the TR7 display puzzlement and I turned on my TR7 and I have no display? I has been working fine past few weeks after sitting all summer. If I turn it on and back on I get a few LEDs light but garbage? I have the hood open, any common things to look for when the display quits? Cards need to be reseated or is it electrical? Where do I start?

Thanks KF0HR Teran in North Dakota

6201. RE: [DrakeRadio] No TR-7 display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-10 23:11:56 UTC
From: Teran Hermanson
Topic: 6184 Message: 6201

Alright I now have my TR-7 display back, reseated second card from back and it came back solid. Must be time to reseat and deoxit the plug in cards and connecters. Fun to have a easy fix for a change HI HI.

73 de KF0HR Teran in North Dakota

-----Original Message-----
From: DrakeRadio@yahoogroups.com [mailto:DrakeRadio@yahoogroups.com] On Behalf Of Teran Hermanson
Sent: Saturday, December 10, 2011 4:50 PM
To: DrakeRadio@yahoogroups.com
Subject: [DrakeRadio] No TR-7 display

Reading the mail on the TR7 display puzzlement and I turned on my TR7 and I have no display? I has been working fine past few weeks after sitting all summer. If I turn it on and back on I get a few LEDs light but garbage? I have the hood open, any common things to look for when the display quits? Cards need to be reseated or is it electrical? Where do I start?

Thanks KF0HR Teran in North Dakota

Yahoo! Groups Links

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.1873 / Virus Database: 2102/4672 - Release Date: 12/10/11

6202. Re: [DrakeRadio] TR-3

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-11 01:55:26 UTC
From: Jim Shorney
Topic: 5734 Message: 6202

On Sat, 10 Dec 2011 16:22:27 -0000, fred wrote:

>recently obtained a D-104 night eagle to use with the TR-3 . do I need to bypass the anplifier in the microphone base before I try it ?
>anyone have a diagramme for the mike ?

You don't *need* to, but some of us prefer to remove the amp. You should be able to find a diagram online via your favorite search engine.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6203. Re: [DrakeRadio] No TR-7 display

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-11 12:51:27 UTC
From: Gary Woods
Topic: 6184 Message: 6203

On Sat, 10 Dec 2011 17:11:56 -0600, you wrote:

>Alright I now have my TR-7 display back, reseated second card from back and
>it came back solid. Must be time to reseat and deoxit the plug in cards and
>connecters.
With most things, step one of troubleshooting is "check the power
supplies."
In a TR-7 that matters, but "clean the connectors" seems to take care of
most strangeness.

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

6204. Re: T-4XB low drive on low bands

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-11 15:18:00 UTC
From: k4elo
Topic: 6176 Message: 6204

Thanks Garey - it was the trimmers. Plenty of drive on all bands now.

73
Wayne

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Wayne -
>
> OK. It's not going to be a tube.
>
> Check the manual for the alignment instructions. Tune up in TUNE
> position. Keep the resonant plate current under 200 mA and monitor the
> output power. The four trimmers along the left side of the transmitter
> that are marked 3.5 MHz can be tweaked. Be careful to use an insulated
> tool to adjust them, as shorting one to the chassis even momentarily can
> destroy a resistor in the transmitter. Note their position, turn a
> quarter turn and see what happens. If no change, return it to it's
> original position and try the next one. The two trimmers nearest the
> rear of the transmitter are the Driver Grid and Plate adjustments. The
> other two are for the Premixer and less likely to be the problem here.
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> k4elo wrote:
> > Ok on the 160M Garey. I had forgotten that. Just haven't used the Drakes enough lately.
> >
> > I did clean the bandswitch with Deoxit and exercise it quite a bit. No joy.
> > Ordered replacement tubes, so I'll try some substitutions even though the ones in the
tx check ok on my tv-7d/u tester.
> >
> > 73
> > Wayne
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >> Wayne -
> >>
> >> OK.. Almost certainly a bandswitch problem. Possibly just exercising

> >> the switch through those positions. If not perhaps a judicious
> >> application of DeoxIT to the appropriate contacts. Don't forget the
> >> ones over by the BAND oscillator (where the crystals are.)
> >>
> >> Remember that you need an additional optional crystal for 160M, and have
> >> to select one of the auxiliary NORMAL positions where that crystal is
> >> installed.
> >>
> >> --
> >> 73, Garey - K4OAH
> >> St Charles, IL
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
> >>
> >> k4elo wrote:
> >>> Yes Garey, rf tune peaks on 80M where it should but it is a very little peak. No peak on 160M. No, gear is not new to me, but I have never used it on the low bands before. If I switch from separate to rcvr, I get no peak at all. Switching to xmit, I get a little peak like separate.
> >>>
> >>> Jeff Covelli went through the tx and rx a couple of years ago and said all was working well when he was finished.
> >>>
> >>> 73
> >>> Wayne
> >>>
> >>> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >>>> Wayne -
> >>>>
> >>>> Couple of other things....
> >>>>
> >>>> Is the transmitter 'new' to you, or did it just stop working?
> >>>>
> >>>> If an R-4(any) is available have you tried TRANSCEIVE under XMIT control?
> >>>>
> >>>> --
> >>>> 73, Garey - K4OAH
> >>>> St Charles, IL
> >>>>
> >>>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >>>> and TR-4/C Service Supplement CDs
> >>>> <www.k4oah.com>
> >>>>
> >>>>
> >>>> k4elo wrote:
> >>>>> Sick T-4XB. Normal rf output 40M and up.
> >>>>> 80M very low drive, maybe 10W output. 160M nothing.

> >>>>> All tubes check ok.
> >>>>>
> >>>>> Any suggestions welcome.
> >>>>> 73
> >>>>> Wayne
> >>>>> K4ELO
> >>>>>
> >
> >
> >
> > ------------------------------------
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> > Yahoo! Groups Links
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6205. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-11 20:15:35 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 6205

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

6206. L-4B Input Coil Adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-12 11:03:43 UTC
From: MarkB
Topic: 6206 Message: 6206

Hi Group
I Think I need to do an input Coil Adjustment on my L-4B
I have checked the adjustment as per the the Instruction Manual
I Have reading of:
10m 1.9-1
15m 1.2-1
20m 1.8-1
40m 1.3-1
80m 1.5-1
How low of a SWR can should I have? or is this OK
Thanks Mark
VK2MTB

6207. Re: [DrakeRadio] L-4B Input Coil Adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-12 11:37:50 UTC
From: Donnie
Topic: 6206 Message: 6207

Mark:
One thing I would try first. I would try a different cable length between
the exciter and the input to the amp to see if you get different readings.

Donnie

On Mon, Dec 12, 2011 at 6:03 AM, MarkB <markandlou74@yahoo.com> wrote:

> **
>
>
> Hi Group
> I Think I need to do an input Coil Adjustment on my L-4B
> I have checked the adjustment as per the the Instruction Manual
> I Have reading of:
> 10m 1.9-1
> 15m 1.2-1
> 20m 1.8-1
> 40m 1.3-1
> 80m 1.5-1
> How low of a SWR can should I have? or is this OK
> Thanks Mark
> VK2MTB
>
>
>
>

--
www.2bRadioParts.com

[Non-text portions of this message have been removed]

6208. TR4C AF/RF control with on/off switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-12 19:44:04 UTC
From: lonelyone_64109
Topic: 6208 Message: 6208

Anyone know of where I can find a replacement AF/RF control? The volume control shaft in my rig has become loose enough to where the volume stays loud even with the pot fully CCW. You can grasp the knob and feel the shaft wiggle just enough to cause the loud volume issue. Headphones that have a volume control in them help but the volume is either too loud or too soft. Alternately if someone has dismantled the pot and "tightened" it up that would be another possibility if necessary.I would prefer a replacement control if at all possible.

I am also contemplating building the audio limiter circuit in the Feb 2011 QST.Seems like this would be a possible "fix" until I can repair/replace the control.Any comments on this?

I love using the rig and still get many good reports with it. Its also sentimental to me as it was my OM and my first phone rig when we made General in 1972.

Paul WB0CJB

6209. Re: [DrakeRadio] TR4C AF/RF control with on/off switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-12 20:00:22 UTC
From: Ted Peckler
Topic: 6208 Message: 6209

I rebuilt mine, I bought some similar pots awhile back, only the RF gain pot is the same, but taking them apart I transferred the old resistance board from the old to the new, then reassembled. I have done this several times, on Swan and Heathkit rigs.

--- On Mon, 12/12/11, lonelyone_64109 <lonelyone_64109@...> wrote:

From: lonelyone_64109 <lonelyone_64109@yahoo.com>
Subject: [DrakeRadio] TR4C AF/RF control with on/off switch
To: DrakeRadio@yahoogroups.com
Date: Monday, December 12, 2011, 11:44 AM

Anyone know of where I can find a replacement AF/RF control? The volume control shaft in my rig has become loose enough to where the volume stays loud even with the pot fully CCW. You can grasp the knob and feel the shaft wiggle just enough to cause the loud volume issue. Headphones that have a volume control in them help but the volume is either too loud or too soft. Alternately if someone has dismantled the pot and "tightened" it up that would be another possibility if necessary.I would prefer a replacement control if at all possible.

I am also contemplating building the audio limiter circuit in the Feb 2011 QST.Seems like this would be a possible "fix" until I can repair/replace the control.Any comments on this?

I love using the rig and still get many good reports with it. Its also sentimental to me as it was my OM and my first phone rig when we made General in 1972.

Paul WB0CJB

[Non-text portions of this message have been removed]

6210. Re: TR4C AF/RF control with on/off switch

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 05:54:55 UTC
From: lonelyone_64109
Topic: 6208 Message: 6210

I have contemplated rebuilding mine and may end up doing that.However, I found the CTS website and they make a dual pot and can have the on/off switch on it so that is another possibility.Don't know what one would cost but will be checking Mouser, Newark, Digi-key, and other distributors for one.Thanks for you input!!!

Paul WB0CJB

--- In DrakeRadio@yahoogroups.com, Ted Peckler <facsmart@...> wrote:
>
> I rebuilt mine, I bought some similar pots awhile back, only the RF gain pot is the same, but taking them apart I transferred the old resistance board from the old to the new, then reassembled. I have done this several times, on Swan and Heathkit rigs. Â
>
> --- On Mon, 12/12/11, lonelyone_64109 <lonelyone_64109@...> wrote:
>
> From: lonelyone_64109 <lonelyone_64109@...>
> Subject: [DrakeRadio] TR4C AF/RF control with on/off switch
> To: DrakeRadio@yahoogroups.com
> Date: Monday, December 12, 2011, 11:44 AM
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> Anyone know of where I can find a replacement AF/RF control? The volume control shaft in my rig has become loose enough to where the volume stays loud even with the pot fully CCW. You can grasp the knob and feel the shaft wiggle just enough to cause the loud volume issue. Headphones that have a volume control in them help but the volume is either too loud or too soft. Alternately if someone has dismantled the pot and "tightened" it up that would be another possibility if necessary.I would prefer a replacement control if at all possible.
>
>
>
> I am also contemplating building the audio limiter circuit in the Feb 2011 QST.Seems like this would be a possible "fix" until I can repair/replace the control.Any comments on this?
>
>
>
> I love using the rig and still get many good reports with it. Its also sentimental to me as it was my OM and my first phone rig when we made General in 1972.
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> Paul WB0CJB
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> [Non-text portions of this message have been removed]
>

6211. R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 14:56:19 UTC
From: Gary
Topic: 6211 Message: 6211

Hi guys,
Even though it seems to be working fine, I decided to touch up my early R-4A a little. Think I found a problem...
As best as I can see in the manual, when you adjust the RCVR SENS, the AVC should be on SLOW/SSB.??
In that position, I can not get the -1.35V, only -0.4-0.6V (about).
Tried both DVM and old VTVM, no difference.
I did find that if I set the AVC to OFF, it adjusts just fine, -1.35V no problem.
Searching the past posts, I see a gassy 12BZ6 might be involved. And, pulling V1 does let me get -1.35V in SLOW AVC. Pulling the other AVC controlled tubes doesn't fix it like V1 does.
I don't have access to a tube tester or spare tubes.. what is the next step?
TIA,
73,
Gary
WB6OGD

6212. Re: [DrakeRadio] R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 15:57:10 UTC
From: Garey Barrell
Topic: 6211 Message: 6212

Gary -

Get some spare tubes, AND verify that they're good in a working receiver if possible. Especially 12BA6 (several) and 12BZ6. Tube tester is next to useless. You might want to consider changing V1 over to the 6 volt bus and use a 6BZ6. The 12BZ6 was fairly rare when the receivers were built, and haven't gotten any cheaper!

Try to set the voltage when the receiver is first turned on from cold. Gassy or Grid Emission tubes 'usually' aren't too bad 'cold', and get worse over 10-30 minutes.

Can you set the voltage in FAST? If you can, might check C109 (leaky.)

What s/n?

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Hi guys,
> Even though it seems to be working fine, I decided to touch up my
> early R-4A a little. Think I found a problem...
> As best as I can see in the manual, when you adjust the RCVR SENS,
> the AVC should be on SLOW/SSB.??
> In that position, I can not get the -1.35V, only -0.4-0.6V (about).
> Tried both DVM and old VTVM, no difference.
> I did find that if I set the AVC to OFF, it adjusts just fine, -1.35V
> no problem.
> Searching the past posts, I see a gassy 12BZ6 might be involved. And,
> pulling V1 does let me get -1.35V in SLOW AVC. Pulling the other
> AVC controlled tubes doesn't fix it like V1 does.
> I don't have access to a tube tester or spare tubes.. what is the
> next step?
> TIA,
> 73,
> Gary
> WB6OGD
>
>

6213. Re: [DrakeRadio] R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 16:12:53 UTC
From: Richard Knoppow
Topic: 6211 Message: 6213

----- Original Message -----
From: "Gary" <garywinblad@...>
To: <DrakeRadio@yahoogroups.com>
Sent: Tuesday, December 13, 2011 6:56 AM
Subject: [DrakeRadio] R-4A RCVR SENS adjust problem

> Hi guys,
> Even though it seems to be working fine, I decided to
> touch up my
> early R-4A a little. Think I found a problem...
> As best as I can see in the manual, when you adjust the
> RCVR SENS,
> the AVC should be on SLOW/SSB.??
> In that position, I can not get the -1.35V, only -0.4-0.6V
> (about).
> Tried both DVM and old VTVM, no difference.
> I did find that if I set the AVC to OFF, it adjusts just
> fine, -1.35V
> no problem.
> Searching the past posts, I see a gassy 12BZ6 might be
> involved. And,
> pulling V1 does let me get -1.35V in SLOW AVC. Pulling
> the other
> AVC controlled tubes doesn't fix it like V1 does.
> I don't have access to a tube tester or spare tubes..
> what is the
> next step?
> TIA,
> 73,
> Gary
> WB6OGD
>
Unless someone says that the readings you got are
normal the only thing to do is to replace the tube. A few
tube testers will check for gas but most do not and in any
case the best test for many tube-caused problems is to
replace the tube. I suggest getting more than one
replacement because even unused tubes can have problems.
As a general rule while tube testers are useful even
the best ones are not the court of last resort, tubes often
test good but won't work in a particular application.

--
Richard Knoppow
Los Angeles

WB6KBL
dickburk@...

6214. Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 17:56:51 UTC
From: Gary
Topic: 6211 Message: 6214

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Gary -
>
> Get some spare tubes, AND verify that they're good in a working receiver
> if possible. Especially 12BA6 (several) and 12BZ6. Tube tester is next
> to useless. You might want to consider changing V1 over to the 6 volt
> bus and use a 6BZ6. The 12BZ6 was fairly rare when the receivers were
> built, and haven't gotten any cheaper!
>
> Try to set the voltage when the receiver is first turned on from cold.
> Gassy or Grid Emission tubes 'usually' aren't too bad 'cold', and get
> worse over 10-30 minutes.
>
> Can you set the voltage in FAST? If you can, might check C109 (leaky.)
>
> What s/n?
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

Thanks guys.

This is an early 13 tube A, serial 8740, Very Good to Excellent
condition I think.
I do see on ebay the 6bz6 is a lot more available.. Any prefered
vendor or brand??

FAST works just like SLOW, ie: doesn't adjust properly
(BUT remember, the receiver works fine as far as I can tell,
maybe not the really right gain distribution or ?? but...)
I was using it to listen to the 10meter contest this weekend
and was amazed that it could copy weak DX in QRM better than my
Kenwood TS-440s.. and I always thought my Drakes performance kind
of dropped off at 10meters.

Any chance the 12AV6 is bad?

Are there symptoms to failing 12BA6's? I didn't think 50KHz
would stress them too much ;-)

Question: Is the R-4/R-4A more problematic in the AVC area?
I have been toying with the idea of just modifying it to the
R-4B circuit, doesn't look that hard.. I know, I know, it will
make my $200 receiver into a $100 receiver but I have had it since
1980 and don't plan to ever get rid of it...

73,
Gary
WB6OGD

6215. Re: L-4B Input Coil Adjustment

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 19:02:54 UTC
From: MarkB
Topic: 6206 Message: 6215

OK Donnie I will try this first
Thanks Mark
VK2MTB

--- In DrakeRadio@yahoogroups.com, Donnie <cfzepp@...> wrote:
>
> Mark:
> One thing I would try first. I would try a different cable length between
> the exciter and the input to the amp to see if you get different readings.
>
> Donnie

>

6216. Re: [DrakeRadio] Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-13 23:32:43 UTC
From: Garey Barrell
Topic: 6211 Message: 6216

Gary -

I assume that you mean 3740 for the s/n. The 11 Tube version started at 4054.

Generally prefer Sylvania, RCA or GE, although many other Brands were actually made by these companies.

Inability to reach 1.35V in FAST usually means that C109 is ok, don't see many bad ones though.

All you have to do is look at the AVC specification (3 dB change in output for 60 dB change in input) to see that there is LOTS of excess gain. The only way to determine a properly operating receiver is by watching the S-Meter.

It's possible that the 12AV6 is weak. Another reason to have at least one set of spare, KNOWN GOOD tubes on hand.

The 12BA6 is particularly susceptible to gas or grid emission. Most common symptom is a 'drifting' S-Meter ZERO, i.e., ZERO at turn on and meter drifts up, or down for the first 30 minutes to an hour.

The AVC in the R-4B is no better than that in the R-4A, with the exception of possible tube failure. Transistors also fail, particularly Q4, which is operating beyond it's rated voltage. Fortunately, transistors are specified as 'minimum' or 'maximum' safe operation, and most perform better than specified.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Gary -
>>
>> Get some spare tubes, AND verify that they're good in a working receiver
>> if possible. Especially 12BA6 (several) and 12BZ6. Tube tester is next
>> to useless. You might want to consider changing V1 over to the 6 volt
>> bus and use a 6BZ6. The 12BZ6 was fairly rare when the receivers were
>> built, and haven't gotten any cheaper!

>>
>> Try to set the voltage when the receiver is first turned on from cold.
>> Gassy or Grid Emission tubes 'usually' aren't too bad 'cold', and get
>> worse over 10-30 minutes.
>>
>> Can you set the voltage in FAST? If you can, might check C109 (leaky.)
>>
>> What s/n?
>>
>> --
>> 73, Garey - K4OAH
>> St Charles, IL
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>
> Thanks guys.
>
> This is an early 13 tube A, serial 8740, Very Good to Excellent
> condition I think.
> I do see on ebay the 6bz6 is a lot more available.. Any prefered
> vendor or brand??
>
> FAST works just like SLOW, ie: doesn't adjust properly
> (BUT remember, the receiver works fine as far as I can tell,
> maybe not the really right gain distribution or ?? but...)
> I was using it to listen to the 10meter contest this weekend
> and was amazed that it could copy weak DX in QRM better than my
> Kenwood TS-440s.. and I always thought my Drakes performance kind
> of dropped off at 10meters.
>
> Any chance the 12AV6 is bad?
>
> Are there symptoms to failing 12BA6's? I didn't think 50KHz
> would stress them too much ;-)
>
> Question: Is the R-4/R-4A more problematic in the AVC area?
> I have been toying with the idea of just modifying it to the
> R-4B circuit, doesn't look that hard.. I know, I know, it will
> make my $200 receiver into a $100 receiver but I have had it since
> 1980 and don't plan to ever get rid of it...
>
>
> 73,
> Gary
> WB6OGD
>
>

6217. "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 02:03:59 UTC
From: dcolb121
Topic: 6217 Message: 6217

Bought one of these beauties over at ebay.

Didn't transmit, even though the seller said all worked good (a non ham, of course). I found a bad solder joint on the low pass board, now she's transmitting fine. 110 watts on 10 meters.

Added internal preamp using the "store" button to change gain, new yellow display and replaced dial lights with white leds (dial and meter are now BLUE!) along with cleaning the PTO ball bearing raceway. Tunes nice and smooth now.

Had the old "sticky paint case". Refinished with a nice textured black.

Right now she's my main rig with a new Yaesu FT450D sitting on top that hardly gets used.

Having trouble finding mic for her though. I was able to find an old Uniden four prong mic from a dead CB that fit.

Got it all rewired to work with the rig, but the problem I'm having is that xmit audio is very bassy. Any thoughts on how to fix this? It's an unamplified mic.

Don WA7OCZ

6218. Re: [DrakeRadio] "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 04:41:56 UTC
From: Jim Shorney
Topic: 6217 Message: 6218

On Wed, 14 Dec 2011 02:03:59 -0000, dcolb121 wrote:

>Having trouble finding mic for her though. I was able to find an old Uniden four prong mic from a dead CB that fit.
>
>Got it all rewired to work with the rig, but the problem I'm having is that xmit audio is very bassy. Any thoughts on how to fix this? It's an unamplified mic.

Get a better mic?

Seriously, this radio deserves much better than an old CB mic. And it's not hard to find a good mic, online or at hamfests. For casual QSOing and rag-chewing, any of the dynamic Shure 444 variants is a good choice. For DXing and contesting, look for a decent high-impedance ceramic mic; Turner 254HC, EV 729, and modified D-104 are some that I have tried with excellent reports. A Turner +2 with the preamp removed would essentially be a 254HC. The Turner +3, with or without the preamp, would also be a good choice (the preamp isn't needed with the TR-7 for gain, but it has some audio compression that actually works). The dynamic Drake 7077 (really a rebadged Astatic) was the Drake accessory mic for the TR-7, but they are somewhat hard to find and expensive when you do find one. The one that I have didn't stand up to a Shure 444 for sound quality in the dynamic class.

Other readers will have other recommendations.

Also, be aware that most TR-7s have two input pins on the mic connector - one for low-imedance dynamic (like your CB mic), and also a high-level input for ceramic mics.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6219. Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 04:46:07 UTC
From: Gary
Topic: 6211 Message: 6219

Thanks Garey.
OOPS, 3740, right you are! Drake's '3' sure does look like an
'8' when you look down over the back ;-)

I ordered some RCA(like my 12bz6) 6bz6's for the first step. Any
tips on wiring to 6V?
Looks like I should put it on the other side from the dial lights..

I don't think I have much drift of the meter.. maybe just a little.

I'll have to check FAST again, think it worked identical to SLOW.
C109 IS a big paper(?) unit. It looks like Drake changed it to a
smaller one with series resistor in the R-4B..?

Q4 seems to be really obsolete, I can't even find a datasheet.
Is there any available substitute? Drake used them "out of spec"?
Wow. Interesting. I still remember the one time I listened to an
R-4B. It was at the ham store when they just came out. I had
another R-4A at the time and I thought the B sounded really WORSE!
It was like the SLOW AVC wasn't really all that slow, like my dad's
75S-3B or there was some distortion or something. From what I read
now the R-4B is supposed to sound really good, like the R-4A.. maybe
that one was just a little too far out of spec!

73,
Gary
WB6OGD

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Gary -
>
> I assume that you mean 3740 for the s/n. The 11 Tube version started at
> 4054.
>
> Generally prefer Sylvania, RCA or GE, although many other Brands were
> actually made by these companies.
>
> Inability to reach 1.35V in FAST usually means that C109 is ok, don't
> see many bad ones though.
>
> All you have to do is look at the AVC specification (3 dB change in
> output for 60 dB change in input) to see that there is LOTS of excess
> gain. The only way to determine a properly operating receiver is by
> watching the S-Meter.
>

> It's possible that the 12AV6 is weak. Another reason to have at least
> one set of spare, KNOWN GOOD tubes on hand.
>
> The 12BA6 is particularly susceptible to gas or grid emission. Most
> common symptom is a 'drifting' S-Meter ZERO, i.e., ZERO at turn on and
> meter drifts up, or down for the first 30 minutes to an hour.
>
> The AVC in the R-4B is no better than that in the R-4A, with the
> exception of possible tube failure. Transistors also fail, particularly
> Q4, which is operating beyond it's rated voltage. Fortunately,
> transistors are specified as 'minimum' or 'maximum' safe operation, and
> most perform better than specified.
>
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>

6220. MN-4 calibration?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 15:05:08 UTC
From: LonnieW
Topic: 6220 Message: 6220

As I mentioned in a previous post, I got an MN-4 off that auction place and found that the previous owner had build a power supply into the tuner's case.
I ripped out that mess and am having trouble using the tuner.
I have a friend with the same tuner so he loaned me his to compare parts placement, leads, etc and my tuner seems to not have been harmed except for the small circuit board inside.
It looks like the tuning slug was ran all the way in with the brass part of the slug hanging off the end of the form.
Does anyone have instructions for calibrating this board back to where it belongs? Thanks!

Lonnie, N9IUI

6221. Re: [DrakeRadio] "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 15:16:00 UTC
From: N9JCQ@aol.com
Topic: 6217 Message: 6221

Don, I have several Shure 444s sitting around gathering dust that would work great with your TR7. I have the Drake Mic for mine as back up and I use a Heil on mine as my main mic.
Joe, N9JCQ

-----Original Message-----
From: dcolb121 <modembreath@...>
To: DrakeRadio <DrakeRadio@yahoogroups.com>
Sent: Tue, Dec 13, 2011 10:05 pm
Subject: [DrakeRadio] "New" TR7 Refurb Progressing...

Bought one of these beauties over at ebay.

Didn't transmit, even though the seller said all worked good (a non ham, of course). I found a bad solder joint on the low pass board, now she's transmitting fine. 110 watts on 10 meters.

Added internal preamp using the "store" button to change gain, new yellow display and replaced dial lights with white leds (dial and meter are now BLUE!) along with cleaning the PTO ball bearing raceway. Tunes nice and smooth now.

Had the old "sticky paint case". Refinished with a nice textured black.

Right now she's my main rig with a new Yaesu FT450D sitting on top that hardly gets used.

Having trouble finding mic for her though. I was able to find an old Uniden four prong mic from a dead CB that fit.

Got it all rewired to work with the rig, but the problem I'm having is that xmit audio is very bassy. Any thoughts on how to fix this? It's an unamplified mic.

Don WA7OCZ

[Non-text portions of this message have been removed]

6222. Re: [DrakeRadio] Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 16:26:20 UTC
From: Garey Barrell
Topic: 6211 Message: 6222

Gary -

Yeah, they DO look a lot like an '8'!! :-)

OK, the 6BZ6 works fine, and as I'm sure you discovered is considerably cheaper than the 12. You
can pick up the 6V filament voltage on Pin 3 of V2. Check with DMM to ground, if 12V on Pin 3,
there will be 6V on Pin 4. It's been a LONG time since I have done one of these, and I really can't
see even on the CD. Going from memory (risky!) the filament wire comes from Pin 4 of V1 to a
terminal strip that is mounted on the shield plate between switch sections. SHOULD be a Wht/Grn
wire, but no guarantees. As I recall, you need to remove the wire from V1 from that terminal and
extend it to reach AROUND the chassis shield and down to Pin 3 of V2. Sorry I can't be more specific, but I don't have all my notes/references with me! You really don't want to put in a 'new'
wire as the wiring around V1 is VERY tight and just too many things to go wrong with a hot soldering
iron in there! :-) Also, be sure and 'dress' the new wire right against the chassis, and of course run it 'around' the end of the chassis shield, NOT 'over the top'!

The S-Meter drift will occur in the first 30 minutes or so. It's a progressive thing, so starts
with just a little and then gets annoying..... :-)

C109 is a 0.47 film cap. Orange Drop type, but with axial leads. Polyester, polystyrene, whatever
film. If the BIAS voltage doesn't change from FAST to SLOW, the cap is ok. I don't think I've
ever found a bad one at this position aside from a couple where a soldering iron got too close! The
'B' went to a 0.22 uF with 33k in series, resulting in essentially the same t/c.

Yes, Q4 is LONG obsolete. We went through this on one of the lists in the last year or so. The
problem is the Collector/Base breakdown voltage, so if one is working, it will 'probably' keep
working. Seems like we ended up with a 2N5550, but again going from memory!

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Gary wrote:
> Thanks Garey.
> OOPS, 3740, right you are! Drake's '3' sure does look like an
> '8' when you look down over the back ;-)
>
> I ordered some RCA(like my 12bz6) 6bz6's for the first step. Any
> tips on wiring to 6V?
> Looks like I should put it on the other side from the dial lights..
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> I'll have to check FAST again, think it worked identical to SLOW.
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> smaller one with series resistor in the R-4B..?
>
> Q4 seems to be really obsolete, I can't even find a datasheet.
> Is there any available substitute? Drake used them "out of spec"?
> Wow. Interesting. I still remember the one time I listened to an
> R-4B. It was at the ham store when they just came out. I had
> another R-4A at the time and I thought the B sounded really WORSE!
> It was like the SLOW AVC wasn't really all that slow, like my dad's
> 75S-3B or there was some distortion or something. From what I read
> now the R-4B is supposed to sound really good, like the R-4A.. maybe
> that one was just a little too far out of spec!
>
> 73,
> Gary
> WB6OGD
>
>
> --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@...> wrote:
>> Gary -
>>
>> I assume that you mean 3740 for the s/n. The 11 Tube version started at
>> 4054.
>>
>> Generally prefer Sylvania, RCA or GE, although many other Brands were
>> actually made by these companies.
>>
>> Inability to reach 1.35V in FAST usually means that C109 is ok, don't
>> see many bad ones though.
>>
>> All you have to do is look at the AVC specification (3 dB change in
>> output for 60 dB change in input) to see that there is LOTS of excess
>> gain. The only way to determine a properly operating receiver is by
>> watching the S-Meter.
>>

>> It's possible that the 12AV6 is weak. Another reason to have at least
>> one set of spare, KNOWN GOOD tubes on hand.
>>
>> The 12BA6 is particularly susceptible to gas or grid emission. Most
>> common symptom is a 'drifting' S-Meter ZERO, i.e., ZERO at turn on and
>> meter drifts up, or down for the first 30 minutes to an hour.
>>
>> The AVC in the R-4B is no better than that in the R-4A, with the
>> exception of possible tube failure. Transistors also fail, particularly
>> Q4, which is operating beyond it's rated voltage. Fortunately,
>> transistors are specified as 'minimum' or 'maximum' safe operation, and
>> most perform better than specified.
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>>
>> --
>> 73, Garey - K4OAH
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>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
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> Yahoo! Groups Links
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6223. X-Lock/huff and puff

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-14 18:10:46 UTC
From: Paul Horvitz
Topic: 6223 Message: 6223

Thanks to all (with special mention to Garey) for the help you guys gave me with my TR7. It's been on the air on 160/80 and 40 SSB and CW for a couple months now. Working nice and reliably.

I'm wondering about the X-Lock for stopping it's drift up the band as the chassis warms up after transmitting for a bit. Same drift rate when running the RV7, so it's something in the mixing scheme on rig's chassis. The drifting is minor, about 100 cycles after 5 min of transmitting (NCS on a NTS net). I have a fan mounted on rear and within 7 or 8 min of no transmit the TR7 drifts back to starting freq.

Does anyone here have any experience using that X-Lock?
On the web site for cumbriadesigns it mentions they will have some more for sale this month.

I'm mainly wondering two things:
Will it address my drifting problem since it's not the PTO causing my TR7 to drift?,
is there another, better way to solve the drift?
Like tracking down caps and replacing them with silver mica's or mylar's or something?

Thanks,
Paul
WA6IAF

6224. Re: [DrakeRadio] Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-15 04:34:52 UTC
From: Jim Shorney
Topic: 6211 Message: 6224

On Wed, 14 Dec 2011 10:26:20 -0600, Garey Barrell wrote:

>Yes, Q4 is LONG obsolete. We went through this on one of the lists in the last year or so. The
>problem is the Collector/Base breakdown voltage, so if one is working, it will 'probably' keep
>working. Seems like we ended up with a 2N5550, but again going from memory!

CRT driver transistors have nice, high breakdown voltages. I ended up using one from a scrap high-end monitor circuit board in the ALC circuit of my 3750; the previous owner had replaced the original with an NTE sub that turned out to be a bad sub (nowhere near the correct ratings).

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6225. Re: [DrakeRadio] MN-4 calibration?

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-15 04:48:55 UTC
From: Jim Shorney
Topic: 6220 Message: 6225

On Wed, 14 Dec 2011 15:05:08 -0000, LonnieW wrote:

> It looks like the tuning slug was ran all the way in with the brass part of the slug hanging off the end of the form.
>Does anyone have instructions for calibrating this board back to where it belongs? Thanks!

It's a pretty standard directional wattmeter circuit. The "slug" is a piston variable capacitor. You need a good 50-Ohm dummy load. The capacitor should be adjusted for minimum reflected power reading into the dummy load with carrier applied from your trasmitter. Do it on 10 meters, bring power up enough to get a reflected reading and adjust the capacitor for minimum. Increase power and repeat until you get the best null at maximum power. You can calibrate the power reading by adjusting the variable resistors to match a known accurate wattmeter connected in deries into the same dummy load. Reverse the connections to the tuner to calibrate reflected power.

If it won't calibrate, one or both of the detector diodes may be blown. You can find a manual with schematic on the WB4HFN web site.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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6226. Re: "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-15 15:26:58 UTC
From: Paul Horvitz
Topic: 6217 Message: 6226

Just a thought...
If it sounds pretty bassy on Rx as well with out using PBT, those voltage divider networks for the fixed passband tuning could be a bit out of adjustment. they are on the "Power Supply" board and there is one adjustment each for AM, RTTY, CW, LSB, USB. The main 10.000vdc adjust is also on that board (R2111). They were all out of whack with my TR7.

Actually I'm not sure if they affect transmit as well as receive, don't think they do. Perhaps someone on here more knowledgeable than I am can comment.

I use a 444 on my TR7 and get great audio reports, sometimes unsolicited ones!

73,
Paul
WA6IAF

--- In DrakeRadio@yahoogroups.com, N9JCQ@... wrote:
>
>
> Don, I have several Shure 444s sitting around gathering dust that would work great with your TR7. I have the Drake Mic for mine as back up and I use a Heil on mine as my main mic.
> Joe, N9JCQ
>
>
>
>
>
> -----Original Message-----
> From: dcolb121 <modembreath@...>
> To: DrakeRadio <DrakeRadio@yahoogroups.com>
> Sent: Tue, Dec 13, 2011 10:05 pm
> Subject: [DrakeRadio] "New" TR7 Refurb Progressing...
>
>
>
>
>
>
> Bought one of these beauties over at ebay.
>
> Didn't transmit, even though the seller said all worked good (a non ham, of course). I found a bad solder joint on the low pass board, now she's transmitting fine. 110 watts on 10 meters.
>
> Added internal preamp using the "store" button to change gain, new yellow display and replaced dial lights with white leds (dial and meter are now BLUE!) along with cleaning the PTO ball bearing raceway. Tunes nice and smooth now.
>

> Had the old "sticky paint case". Refinished with a nice textured black.
>
> Right now she's my main rig with a new Yaesu FT450D sitting on top that hardly gets used.
>
> Having trouble finding mic for her though. I was able to find an old Uniden four prong mic from a dead CB that fit.
>
> Got it all rewired to work with the rig, but the problem I'm having is that xmit audio is very bassy. Any thoughts on how to fix this? It's an unamplified mic.
>
> Don WA7OCZ
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

6227. Re: [DrakeRadio] Re: "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-15 18:31:53 UTC
From: Don Cunningham
Topic: 6217 Message: 6227

Paul,
PBT is a receive function, not effecting transmit audio. The only way to change your audio (other than butchering the rig as advised on some sites) is to change the microphone to match your voice characteristics. I too get great reports using a NOS Shure 444D I happened to find on the internet for sale, but I also get great reports with an amplified D-104, with gain near off that came with one of my TR7's (sorry Jim), so the microphone needs to match your particular voice.

Otherwise, I have been successful on some rigs with one of the older equalizers made for radio use (by the W2xxx group, call slips my mind). HOWEVER, you can add some RF into the system easily using this outboard stuff. Bob Heil published a simple 2 band equalizer in one of the popular ham magazines when he first started that had a simple preamp and a couple of "bands" of equalization that might help.

I think Jim Shorney was right though, I would change the microphone. The caveat is that most microphones are being sold for a reason, and it's not always just "surplus to my needs", it may have "sounded like %$&* with my rig" or the element isn't very good. Some have had good luck with a cheap mic element from Mouser, others say it's junk, so it depends on the individual's voice characteristics. Is that why I have SO MANY microphones here, hi hi.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6228. Re: [DrakeRadio] Re: "New" TR7 Refurb Progressing...

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-15 23:06:14 UTC
From: Jim Shorney
Topic: 6217 Message: 6228

On Thu, 15 Dec 2011 15:26:58 -0000, Paul Horvitz wrote:

>If it sounds pretty bassy on Rx as well with out using PBT, those voltage divider networks for the fixed passband tuning could be a bit out of adjustment. they are on the "Power Supply" board and there is one adjustment each for AM, RTTY, CW, LSB, USB. The main 10.000vdc adjust is also on that board (R2111). They were all out of whack with my TR7.
>
>Actually I'm not sure if they affect transmit as well as receive, don't think they do. Perhaps someone on here more knowledgeable than I am can comment.

The fixed passband pots set the "default" passband for both TX and RX. PBT is an RX only adjustment, as already mentioned. You bring up a good point, Paul. The fixed passband adjustments are worth checking. If the DR-7 has ever been pulled for replacement of the PTO lamp, it's very likely that one or more of the pots was bumped without the op even noticing. The +10 should also be checked, but if it's real close, left alone or the S-Meter/AGC adjustment will also need to be done. Adjusting the pots can be done with a senitive frequency counter, or with the quick and easy method from Drake. It can be found on the Drakelist web site, and possibly WB4HFN as well.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

6229. SPR-4 front panel needed

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-17 18:10:17 UTC
From: VE3AX/7
Topic: 6229 Message: 6229

Hi all:

Does anyone have a valid e-mail for Tony Mills, KF8MW? Looks like he has shut down his Drake front panels operation but was hoping he might have an SPR-4 panel left over. Alternatively, does anyone on the list have one they would be willing to part with?

73

Peter
VE3AX/7

[Non-text portions of this message have been removed]

6230. extra 17 meter crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 17:50:22 UTC
From: yash@aol.com
Topic: 6230 Message: 6230

I ordered a 17 meter crystal for my r4a and then found I already had one in the box. Antone looking to get on 17 ,sell for 12.00
thanks
dale wt4t

[Non-text portions of this message have been removed]

6231. Drake TR7- a significant upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 18:36:25 UTC
From: Wojciech
Topic: 6231 Message: 6231

February ,March and April 2010 issues of CQ-DL (Germany) contain three intersting articles by OM Paul, DK2QO, describing a significant modifications to TR7. He designed a new up-converter and second mixer board, which replace the original boards.Also, some changes to IF chain,PA and ALC have also been implemented.
This modification results in 10dB improvement of IP3 and intermodulation @ 2kHz by 20 dB.

Tom, VK2OE

6232. Re: [DrakeRadio] Drake TR7- a significant upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 19:10:12 UTC
From: Don Cunningham
Topic: 6231 Message: 6232

Nice rig, but it's kinda like homebrewing a rig, using a TR7 as the base, hi. I wonder how much it cost to do all that he did??
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6233. Re: [DrakeRadio] Drake TR7- a significant upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 20:17:47 UTC
From: Jim Shorney
Topic: 6231 Message: 6233

I would be very interested in seeing these articles. Does anyone have
electronic copies they could send me off-list?

73

-Jim
NU0C

On Sun, 18 Dec 2011 18:36:25 -0000, Wojciech wrote:

>February ,March and April 2010 issues of CQ-DL (Germany) contain three intersting articles by OM Paul, DK2QO, describing a significant modifications to TR7. He designed a new up-converter and second mixer board, which replace the original boards.Also, some changes to IF chain,PA and ALC have also been implemented.
>This modification results in 10dB improvement of IP3 and intermodulation @ 2kHz by 20 dB.
>
>Tom, VK2OE

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

6234. problem with bias on 40 meters cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 22:01:12 UTC
From: yash@aol.com
Topic: 6234 Message: 6234

Thanks every one for the help with no bias control on 40 meters problem. I did neutralize the finals, didn't change. I cleaned the driver tube pins,and socket, cleaned the surface between the socket finger ground and the tube cover and redid all the grounds connections for the board. Problem solved,all works well,proper bias and full out on all bands.

Now have a second problem,the audio both usb/lsb seems scratchy and tinny. I looked thru the article ,optimizing the sb/hw 100/101/102. they gave various resister and cap changes ,but There is no way to get into these boards while mounted on the chassis,and being so old,to easy to damage things bu pulling the boards. Is the component change the way to fix the audio or Iam I over looking something in the alignment maybe.
thanks again for the help
dale wt4t

[Non-text portions of this message have been removed]

6235. excuse my post on the bias supply problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 22:12:03 UTC
From: yash@aol.com
Topic: 6235 Message: 6235

Please dis regard my post about the bias problem, old age and fat fingers meant to send to the heath kit group.
thanks
dale wt4t

[Non-text portions of this message have been removed]

6236. Re: [DrakeRadio] Drake TR7- a significant upgrade

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 22:16:12 UTC
From: Robert Fish
Topic: 6231 Message: 6236

I have been translating webpages from German to English trying to find a
copy of the articles but have had no success.
I would also like to read the articles if any one finds them.

Thanks,
Bob K6GGO

>
> I would be very interested in seeing these articles. Does anyone have
> electronic copies they could send me off-list?
>
> 73
>
> -Jim
> NU0C
>
> On Sun, 18 Dec 2011 18:36:25 -0000, Wojciech wrote:
>
> >February ,March and April 2010 issues of CQ-DL (Germany) contain
> three intersting articles by OM Paul, DK2QO, describing a significant
> modifications to TR7. He designed a new up-converter and second mixer
> board, which replace the original boards.Also, some changes to IF
> chain,PA and ALC have also been implemented.
> >This modification results in 10dB improvement of IP3 and
> intermodulation @ 2kHz by 20 dB.
> >
> >Tom, VK2OE
>
> --
> Ham Radio NU0C
> Lincoln, Nebraska, U.S.S.A.
> TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A,
> GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!
>
> "Give a man a URL, and he will learn for an hour; teach him to Google,
> and he will learn for a lifetime."
>
> HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
> http://incolor.inetnebr.com/jshorney
> http://www.nebraskaghosts.org
>
>

[Non-text portions of this message have been removed]

6237. Re: [Drakelist] problem with bias on 40 meters cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 22:18:24 UTC
From: Garey Barrell
Topic: 6234 Message: 6237

Dale -

I must have missed your original post on 40M BIAS? Could you describe the symptoms again please?

On your audio problem. The 4 Line has excellent audio, so something is wrong. Typically, audio is
'tinny' on one sideband and 'bassy' on the other as a result of incorrect Carrier Oscillator frequency.

If it really IS tinny on both, I'd suspect C138. Not a common failure, but a few DO get leaky.
When you get your CD, it's on Board 2, and not TOO difficult to replace.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

yash@... wrote:
> Thanks every one for the help with no bias control on 40 meters problem. I did neutralize the
> finals, didn't change. I cleaned the driver tube pins,and socket, cleaned the surface between the
> socket finger ground and the tube cover and redid all the grounds connections for the board.
> Problem solved,all works well,proper bias and full out on all bands.
>
> Now have a second problem,the audio both usb/lsb seems scratchy and tinny. I looked thru the
> article ,optimizing the sb/hw 100/101/102. they gave various resister and cap changes ,but There
> is no way to get into these boards while mounted on the chassis,and being so old,to easy to damage
> things bu pulling the boards. Is the component change the way to fix the audio or Iam I over
> looking something in the alignment maybe.
> thanks again for the help
> dale wt4t

6238. Re: [DrakeRadio] problem with bias on 40 meters cured

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-18 22:18:54 UTC
From: Garey Barrell
Topic: 6234 Message: 6238

Dale -

I must have missed your original post on 40M BIAS? Could you describe the symptoms again please?

On your audio problem. The 4 Line has excellent audio, so something is wrong. Typically, audio is
'tinny' on one sideband and 'bassy' on the other as a result of incorrect Carrier Oscillator frequency.

If it really IS tinny on both, I'd suspect C138. Not a common failure, but a few DO get leaky.
When you get your CD, it's on Board 2, and not TOO difficult to replace.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

yash@... wrote:
> Thanks every one for the help with no bias control on 40 meters problem. I did neutralize the finals, didn't change. I cleaned the driver tube pins,and socket, cleaned the surface between the socket finger ground and the tube cover and redid all the grounds connections for the board. Problem solved,all works well,proper bias and full out on all bands.
>
> Now have a second problem,the audio both usb/lsb seems scratchy and tinny. I looked thru the article ,optimizing the sb/hw 100/101/102. they gave various resister and cap changes ,but There is no way to get into these boards while mounted on the chassis,and being so old,to easy to damage things bu pulling the boards. Is the component change the way to fix the audio or Iam I over looking something in the alignment maybe.
> thanks again for the help
> dale wt4t
>
>

6239. Re: [DrakeRadio] extra 17 meter crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-19 13:18:04 UTC
From: Larry
Topic: 6230 Message: 6239

Dale,
I'll take it if you still have it.
Larry W4LK

On 12/18/2011 12:50 PM, yash@... wrote:
>
> I ordered a 17 meter crystal for my r4a and then found I already had
> one in the box. Antone looking to get on 17 ,sell for 12.00
> thanks
> dale wt4t
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

6240. FS: Crystal Sockets

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-19 15:11:02 UTC
From: Bry Carling
Topic: 6240 Message: 6240

FOR SALE: Crystal Sockets

FT243 Crystal Sockets - 1/2" spacing X 0.094" diameter pins

Single FT243 Socket - two hole mount - classic style with shoulder - $8.00 each
(24 available)

Single FT243 Socket - smaller black type - single hole mount - $6.00 each
(4 available)

DUAL FT243 socket - square phenolic, Cinch, single hole mount, accepts two crystals - $10.00
(1 available)

QUAD in-line FT243 socket for multiple crystals, end to end on nice small copper subchassis - as used in DX100 - $24.00
(1 available)

HC6U Crystal Sockets - 1/2" spacing X 0.050" diameter pins
These are new ceramic sockets, single hole mount.
Available for $3.00 each or ten for $25.00 plus shipping
(60 available)

Triple hc6u socket - black or white - $5.00 each
(2 available)

Used hc6u sockets available for $2.00 each
(4 available)

CR1A (20C, DC30) crystal sockets, rare - pin spacing 0.5" and pin diameter 0.125" - for $4.00 each
(2 available)

DC34 / DC35 crystal sockets, Ceramic. rare - pin spacing 0.75" and pin diameter 0.125" - for
$4.00 each
(14 available)

DC34 / DC35 crystal sockets, Plastic. Rare - pin spacing 0.75" and pin diameter 0.125" - for
$4.00 each
(24 available)

CR-15/U Crystal socket, 3 pins New, Rare - 1-5/8" X 1-3/16" X 2" tall.
3 pins are 1/8" dia. Two are spaced 1/2" apart. third pin
is offset by 7/8" from each othe other two. $8.00 each
(2 available)

hc25 / hc50 crystal sockets, for the smaller metal can crystals, pc mount or attach wires
$2.50 each.
(5 available)

73 - Brian Carling, AF4K

[Non-text portions of this message have been removed]

6241. Re: [DrakeRadio] extra 17 meter crystal

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-19 15:17:25 UTC
From: yash@aol.com
Topic: 6230 Message: 6241

Larry
sorry sold it sunday.
thanks
dale wt4t

-----Original Message-----
From: Larry <lkirkland@...>
To: DrakeRadio <DrakeRadio@yahoogroups.com>
Sent: Mon, Dec 19, 2011 10:02 am
Subject: Re: [DrakeRadio] extra 17 meter crystal

Dale,
I'll take it if you still have it.
Larry W4LK

On 12/18/2011 12:50 PM, yash@... wrote:
>
> I ordered a 17 meter crystal for my r4a and then found I already had
> one in the box. Antone looking to get on 17 ,sell for 12.00
> thanks
> dale wt4t
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

6242. Re: R-4A RCVR SENS adjust problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-19 20:01:00 UTC
From: Gary
Topic: 6211 Message: 6242

Well...
The first attempt was NOT good..

I bought 3 supposedly new 6BZ6's.
Did the filament wiring change (Thanks Garey, just like you
described.. it was nice of Drake to put in that terminal strip!!)

They all DID fix my RCVR SENS adjust problem. -1.35V, no problem.

BUT... Gain on these is REALLY bad. Calibrator S meter readings
changed from (gassy 12BZ6) S9+30 at 3.5MHz down to S9+5 (6BZ6).
ON 28.5MHz it went down from S6.5 to audible but NO S meter
deflection. Two of the 6BZ6s were pretty identical, the third was
slightly worse.
Is there any way that I need to change the biasing or something?

Oh, this was after tweeking all the input trimmers.

Also, I checked the SLOW cap, adjusted to -1.36V on SLOW, if I
switch to FAST, it goes down to -1.28V, not too bad? (with non-gassy
6BZ6)

SO.. for now I am back to my old original(?) 12BZ6, it does work
really well. Now, since it is bleeding off AVC voltage, that does
make it have more gain... what is the downside?

Easier to overload? Never had a signal too big so far...

S meter is reading wrong? Not too worried about that...

SLOW time constant is slightly faster. This might be the worst
problem, but it still is slower than my TS-440S.

Thanks for the advise,
73,
Gary WB6OGD

--- In DrakeRadio@yahoogroups.com, Garey Barrell <k4oah@...> wrote:
>
> Gary -
>
> Yeah, they DO look a lot like an '8'!! :-)
>
> OK, the 6BZ6 works fine, and as I'm sure you discovered is considerably cheaper than the
12. You
> can pick up the 6V filament voltage on Pin 3 of V2. Check with DMM to ground, if 12V on
Pin 3,
> there will be 6V on Pin 4. It's been a LONG time since I have done one of these, and I

really can't
> see even on the CD. Going from memory (risky!) the filament wire comes from Pin 4 of V1 to a
> terminal strip that is mounted on the shield plate between switch sections. SHOULD be a Wht/Grn
> wire, but no guarantees. As I recall, you need to remove the wire from V1 from that terminal and
> extend it to reach AROUND the chassis shield and down to Pin 3 of V2. Sorry I can't be more
> specific, but I don't have all my notes/references with me! You really don't want to put in a 'new'
> wire as the wiring around V1 is VERY tight and just too many things to go wrong with a hot soldering
> iron in there! :-) Also, be sure and 'dress' the new wire right against the chassis, and of
> course run it 'around' the end of the chassis shield, NOT 'over the top'!
>
> The S-Meter drift will occur in the first 30 minutes or so. It's a progressive thing, so starts
> with just a little and then gets annoying..... :-)
>
> C109 is a 0.47 film cap. Orange Drop type, but with axial leads. Polyester, polystyrene, whatever
> film. If the BIAS voltage doesn't change from FAST to SLOW, the cap is ok. I don't think I've
> ever found a bad one at this position aside from a couple where a soldering iron got too close! The
> 'B' went to a 0.22 uF with 33k in series, resulting in essentially the same t/c.
>
> Yes, Q4 is LONG obsolete. We went through this on one of the lists in the last year or so. The
> problem is the Collector/Base breakdown voltage, so if one is working, it will 'probably' keep
> working. Seems like we ended up with a 2N5550, but again going from memory!
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
>
> Gary wrote:
> > Thanks Garey.
> > OOPS, 3740, right you are! Drake's '3' sure does look like an
> > '8' when you look down over the back ;-)
> >
> > I ordered some RCA(like my 12bz6) 6bz6's for the first step. Any
> > tips on wiring to 6V?

> > Looks like I should put it on the other side from the dial lights..
> >
> > I don't think I have much drift of the meter.. maybe just a little.
> >
> > I'll have to check FAST again, think it worked identical to SLOW.
> > C109 IS a big paper(?) unit. It looks like Drake changed it to a
> > smaller one with series resistor in the R-4B..?
> >
> > Q4 seems to be really obsolete, I can't even find a datasheet.
> > Is there any available substitute? Drake used them "out of spec"?
> > Wow. Interesting. I still remember the one time I listened to an
> > R-4B. It was at the ham store when they just came out. I had
> > another R-4A at the time and I thought the B sounded really WORSE!
> > It was like the SLOW AVC wasn't really all that slow, like my dad's
> > 75S-3B or there was some distortion or something. From what I read
> > now the R-4B is supposed to sound really good, like the R-4A.. maybe
> > that one was just a little too far out of spec!
> >
> > 73,
> > Gary
> > WB6OGD
> >
> >
> > --- In DrakeRadio@yahoogroups.com, Garey Barrell<k4oah@> wrote:
> >> Gary -
> >>
> >> I assume that you mean 3740 for the s/n. The 11 Tube version started at
> >> 4054.
> >>
> >> Generally prefer Sylvania, RCA or GE, although many other Brands were
> >> actually made by these companies.
> >>
> >> Inability to reach 1.35V in FAST usually means that C109 is ok, don't
> >> see many bad ones though.
> >>
> >> All you have to do is look at the AVC specification (3 dB change in
> >> output for 60 dB change in input) to see that there is LOTS of excess
> >> gain. The only way to determine a properly operating receiver is by
> >> watching the S-Meter.
> >>
> >> It's possible that the 12AV6 is weak. Another reason to have at least
> >> one set of spare, KNOWN GOOD tubes on hand.
> >>
> >> The 12BA6 is particularly susceptible to gas or grid emission. Most
> >> common symptom is a 'drifting' S-Meter ZERO, i.e., ZERO at turn on and
> >> meter drifts up, or down for the first 30 minutes to an hour.
> >>
> >> The AVC in the R-4B is no better than that in the R-4A, with the
> >> exception of possible tube failure. Transistors also fail, particularly
> >> Q4, which is operating beyond it's rated voltage. Fortunately,

> >> transistors are specified as 'minimum' or 'maximum' safe operation, and
> >> most perform better than specified.
> >>
> >>
> >> --
> >> 73, Garey - K4OAH
> >> St Charles, IL
> >>
> >> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> >> and TR-4/C Service Supplement CDs
> >> <www.k4oah.com>
> >>
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

6243. SPR4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-20 02:01:48 UTC
From: andylingham29
Topic: 6243 Message: 6243

Would anybody know of a group fedicated to the restoration of the Drake SPR4.???
I have some information & questions.?
Ir. Andy.Lingham.C.Eng.MIET.9M2PV

6244. FS: Boxes of Electrolytic Capacitors

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-20 12:45:02 UTC
From: Bry Carling
Topic: 6244 Message: 6244

FOR SALE: ELECTROLYTIC CAPACITORS

Mix of radial, axial, upright can - some NOS. Almost all are new.
(one or two may be good, tested caps)

BOX #1 = QTY 35 electrolytic CAPACITORS
QTY 2, 0.068 uF at 630 V
QTY 2, 0.056 uF at 630 V
QTY 1, 4 uF at 600 V
QTY 2, 8 uF at 450 V
QTY 1, 8 + 8 uF at 450 V
QTY 2, 16 uF at 450 V
QTY 1, 125 uF at 450 V
QTY 1, 10 + 10 uF at 450 V
QTY 2, 820 uF at 450 V
QTY 1, 40 uF at 450 V
QTY 1, 68 uF at 400 V
QTY 4, 220 uF at 400V
QTY 2, 33 uF at 400V
QTY 1, 40 + 20 + 10 uF at 350 V
QTY 1, 22 uF at 350 V
QTY 1, 10 uF at 350 V
QTY 1, 100 uF at 250 V
QTY 1, 100 uF at 200 V
QTY 1, 4700 uF at 35 V
QTY 1, 4.7 uF at 35 V
QTY 2, 2200 uF at 25 V
QTY 4, 100 uF at 25 V
Total of 35 excellent capacitors for $45.00 plus $12.00 shipping

BOX #2 = QTY 40 electrolytic CAPACITORS
Mix of radial, axial, upright can - some NOS. Almost all are new.
QTY 2, 0.068 uF at 630 V
QTY 2, 0.056 uF at 630 V
QTY 1, 16 uF at 600V
QTY 1, 0.47 uF at 600V
QTY 2, 47 uF at 450 V
QTY 1, 20 uF at 450 V
QTY 1, 10 + 10 uF at 450 V
QTY 3, 82 uF at 400 V
QTY 5, 220 uF at 400 V
QTY 1, 33 uF at 400 V
QTY 3, 0.47 uF at 400 V

QTY 1, 22 uF at 350 V
QTY 1, 3 uF at 350 V
QTY 1, 47 uF at 250 V
QTY 1, 33 uF at 250 V
QTY 1, 270 uF at 200 V
QTY 1, 100 uF at 200 V
QTY 1, 1 uF at 200 V
QTY 1, 1000 uF at 50 V
QTY 2, 2200 uF at 35 V
QTY 1, 4.7 uF at 35 V
QTY 1, 1000 uF at 25 V
QTY 5, 100 uF at 25 V
QTY 1, 2200 uF at 16 V
Total of 40 excellent capacitors for $45.00 plus $12.00
shipping

BOX #3 = QTY 30 electrolytic CAPACITORS
Mix of radial, axial, upright can - some NOS. Almost all are
new.
QTY 2, 0.068 uF at 630 V
QTY 2, 0.056 uF at 630 V
QTY 1, 16 uF at 600 V
QTY 1, 125 uF at 450 V
QTY 1, 30 uF at 450 V
QTY 1, 20 uF at 450 V
QTY 3, 16 uF at 450 V
QTY 4, 20 + 20 uF at 450 V
QTY 8, 220 uF at 400 V
QTY 3, 270 uF at 400 V
QTY 1, 82 uF at 400 V
QTY 1, 33 uF at 400 V
QTY 2, 1500 uF at 250 V
Great group of capacitors for a low price. $45.00 plus $12.00
shipping

73 - Bry, AF4K

[Non-text portions of this message have been removed]

6245. T4XC Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-21 13:35:58 UTC
From: Richard Hanna
Topic: 6245 Message: 6245

My T4XC is giving me fits! Basic problem is no plate current when I put the Mode Switch in "Tune" or key the mike in SSB. What makes it worse is intermittently I get plate current and when I tune the drive it goes away completely.

My checking indicates there is continuity from the bottom of the 3.3 ohm resistor to the cathodes of the finals, but when I power the rig up (mode switch in TUNE) there is no voltage from the cathodes to ground. (Manual says .8 volts). I think this confirms no current flow! Further on the schematic it looks like the bottom end of the resistor goes to the mode switch and back through the relay mute contact on transmit. I tried another relay and problem is still there. Leaves me with the thought that I have a mode switch problem.

Did try a little Deoxit on the mode switch to no avail. It looks like the terminal on the relay PC board has white-black wires, and I think I found one on the MODE switch, but no continuity on that connection. Afraid to try putting a jumper in because I'm not sure I have the right wire.

Any ideas on what to try further..

Thanks for any help or thought! Happy Holidays to the group!

Dick Hanna
K3VYY

[Non-text portions of this message have been removed]

6246. TR7 1st and second Mixer's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-21 17:15:14 UTC
From: Keith Evans
Topic: 6246 Message: 6246

Hi All,

I wonder if anyone has done these mods ??

I understand replacing the 1st mixer with a SRA3MH+ is good for about another 1.7 DB off the Noise Floor.
I have also seen the TAK 3H mentioned, So comments please, as this maybe a better choice as it is more modern.

re the 2nd Mixer, I Understand that swopping out the 4148's and replacing with either matched
1N5711's or the HP Diodes Hot Carrier Diodes. is also worthwhile.
My TR7 is a fairly late model, with the 4 Diode / 4 resistor second Mixer, as opposed to the earlier
8 diode, no resistor configeration.
I think the earlier board did have a higher conversion loss, because of the extra diodes, although a
" Stronger " design, But it was changed by Drake, to try to find more sensitivity.
So I guess the Mod requires the Resistors to remain, and just change out the 4 Diodes.

I see Pete KE9OA in an Old Post recommends these Mods, Which has got me thinking,
but I wonder if others have done them, as increasing the sensitivity, without adding a Pre-Amp,
in front of the 1st Mixer would be benificial.

Seasons Greetings

73 Keith G3VKW

[Non-text portions of this message have been removed]

6247. MoreT4XC Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-21 18:31:52 UTC
From: Richard Hanna
Topic: 6245 Message: 6247

OK..my bad....I was using a spare AC-4 and had not set the bias. Problem appears to be drive. When adjusting drive I see a very slight peak, but only to a max of about 110ma.

Does anyone have an RF voltage chart for the T4XC? I did do the checks for the oscillators working. and the PTO will drive the R4C.

Also tried substituting the 12BY7 driver, and the 6AU6 mixer.

Dick

K3VYY

----- Forwarded Message -----
From: Richard Hanna <k3vyy@yahoo.com>
To: "DrakeRadio@yahoogroups.com" <DrakeRadio@yahoogroups.com>
Sent: Wednesday, December 21, 2011 8:35 AM
Subject: [DrakeRadio] T4XC Problem

My T4XC is giving me fits! Basic problem is no plate current when I put the Mode Switch in "Tune" or key the mike in SSB. What makes it worse is intermittently I get plate current and when I tune the drive it goes away completely.

My checking indicates there is continuity from the bottom of the 3.3 ohm resistor to the cathodes of the finals, but when I power the rig up (mode switch in TUNE) there is no voltage from the cathodes to ground. (Manual says .8 volts). I think this confirms no current flow! Further on the schematic it looks like the bottom end of the resistor goes to the mode switch and back through the relay mute contact on transmit. I tried another relay and problem is still there. Leaves me with the thought that I have a mode switch problem.

Did try a little Deoxit on the mode switch to no avail. It looks like the terminal on the relay PC board has white-black wires, and I think I found one on the MODE switch, but no continuity on that connection. Afraid to try putting a jumper in because I'm not sure I have the right wire.

Any ideas on what to try further..

Thanks for any help or thought! Happy Holidays to the group!

Dick Hanna
K3VYY

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

6248. Re: [DrakeRadio] MoreT4XC Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-21 19:02:48 UTC
From: Garey Barrell
Topic: 6245 Message: 6248

Check R44 and CR19.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Hanna wrote:
> OK..my bad....I was using a spare AC-4 and had not set the bias. Problem appears to be drive. When adjusting drive I see a very slight peak, but only to a max of about 110ma.
>
>
> Does anyone have an RF voltage chart for the T4XC? I did do the checks for the oscillators working. and the PTO will drive the R4C.
>
> Also tried substituting the 12BY7 driver, and the 6AU6 mixer.
>
> Dick
>
> K3VYY
>
>

6249. Re: [DrakeRadio] TR7 1st and second Mixer's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-22 04:57:10 UTC
From: Jim Shorney
Topic: 6246 Message: 6249

On Wed, 21 Dec 2011 17:15:14 -0000, Keith Evans wrote:

>re the 2nd Mixer, I Understand that swopping out the 4148's and replacing with either matched
>1N5711's or the HP Diodes Hot Carrier Diodes. is also worthwhile.

I put Schottky diodes in the 2nd mixer of my TR-7, and had a slight but measurable increase in MDS. Another one I tried it with didn't show the same improvement. YMMV.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6250. Re: [DrakeRadio] MoreT4XC Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-22 12:27:49 UTC
From: Richard Hanna
Topic: 6245 Message: 6250

Hi Garey,

Checked R44, measures 700 ohms. Diode checks OK. Voltage checks on V4 are per the book.

Dick, K3VYY

From: Garey Barrell <k4oah@...>
To: DrakeRadio@yahoogroups.com
Sent: Wednesday, December 21, 2011 2:02 PM
Subject: Re: [DrakeRadio] MoreT4XC Problem

Check R44 and CR19.

--
73, Garey - K4OAH
St Charles, IL

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

Richard Hanna wrote:
> OK..my bad....I was using a spare AC-4 and had not set the bias. Problem appears to be drive. When adjusting drive I see a very slight peak, but only to a max of about 110ma.
>
>
> Does anyone have an RF voltage chart for the T4XC? I did do the checks for the oscillators working. and the PTO will drive the R4C.
>
> Also tried substituting the 12BY7 driver, and the 6AU6 mixer.
>
> Dick
>
> K3VYY
>
>

[Non-text portions of this message have been removed]

6251. Re: MoreT4XC Problem

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-22 16:34:24 UTC
From: Victor
Topic: 6245 Message: 6251

Hi
Just a one off. Had similar problem. Have you checked the 100R 5w resistor in the AC-4?

Cheers and best wishes to all for the holidays.
Vic
G4JSS

--- In DrakeRadio@yahoogroups.com, Richard Hanna <k3vyy@...> wrote:
>
> Hi Garey,
>
> Checked R44, measures 700 ohms. Diode checks OK. Voltage checks on V4 are per the book.
>
>
> Dick, K3VYY
>
>
>
> _____
> From: Garey Barrell <k4oah@...>
> To: DrakeRadio@yahoogroups.com
> Sent: Wednesday, December 21, 2011 2:02 PM
> Subject: Re: [DrakeRadio] MoreT4XC Problem
>
>
> Â
> Check R44 and CR19.
>
> --
> 73, Garey - K4OAH
> St Charles, IL
>
> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
> and TR-4/C Service Supplement CDs
> <www.k4oah.com>
>
> Richard Hanna wrote:
> > OK..my bad....I was using a spare AC-4 and had not set the bias. Problem appears to be drive. When adjusting drive I see a very slight peak, but only to a max of about 110ma.
> >
> >
> > Does anyone have an RF voltage chart for the T4XC? I did do the checks for the oscillators working. and the PTO will drive the R4C.
> >
> > Also tried substituting the 12BY7 driver, and the 6AU6 mixer.

> >
> > Dick
> >
> > K3VYY
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

6252. Re: [DrakeRadio] TR7 1st and second Mixer's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 14:47:38 UTC
From: Keith Evans
Topic: 6246 Message: 6252

Hi Jim,
Thanks for that info.
I modded my original TR7 back in the late 80's with HP Diodes, it was the original 8 diode setup, and I found,
minimal differance on that radio. Perhaps I should have swopped it to the 4 diode / 4 resistor setup.

re The 1st Mixer, I see that DK4DDS has a Circuit on his website of a design, That seems to match the Ports
in a much better (far more complex) way than the original, and that uses a SAY-1 Mixer.
This maybe from the article that was in the German magazine refered to a week or so back.
Is the same guy who had the ARRL Article when he had a PA0 call

Seasons greetings
73
Keith G3VKW

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Thursday, December 22, 2011 4:57 AM
Subject: Re: [DrakeRadio] TR7 1st and second Mixer's

On Wed, 21 Dec 2011 17:15:14 -0000, Keith Evans wrote:

>re the 2nd Mixer, I Understand that swopping out the 4148's and replacing with either matched
>1N5711's or the HP Diodes Hot Carrier Diodes. is also worthwhile.

I put Schottky diodes in the 2nd mixer of my TR-7, and had a slight but
measurable increase in MDS. Another one I tried it with didn't show the same
improvement. YMMV.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney

http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

6253. Re: [DrakeRadio] TR7 1st and second Mixer's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 17:09:49 UTC
From: Jim Shorney
Topic: 6246 Message: 6253

Hi Keith,

On Fri, 23 Dec 2011 14:47:38 -0000, Keith Evans wrote:

>I modded my original TR7 back in the late 80's with HP Diodes, it was the original 8 diode setup, and I found,
>minimal differance on that radio. Perhaps I should have swopped it to the 4 diode / 4 resistor setup.

I modded one for a friend that had the 8-diode setup, which I changed to diode/resistor. That may have been the one that I noted minimal improvement on, I'd have to see if I have info in my notes on it. I used Schottky diodes that I purchased in bulk on tape-and-reel packaging from a UK ePay seller, and curdely hand-sorted them for matching with my Fluke VOM. At any rate, it didn't seem to hurt the preformance any, so I left them in.

>re The 1st Mixer, I see that DK4DDS has a Circuit on his website of a design, That seems to match the Ports
>in a much better (far more complex) way than the original, and that uses a SAY-1 Mixer.
>This maybe from the article that was in the German magazine refered to a week or so back.
>Is the same guy who had the ARRL Article when he had a PA0 call

I've seen his articles, that's a pretty radical rebuild. I find some of it interesting, but I think that some things could be done just as well, or better, with modern outboard accessories. I disagree with his comments about the PA deck, the Drake design is about as bulletproof as I have ever seen without fancy protection methods and seems quite reliable. The predriver seems a bit problematic, especially the early version, but that's another story. The PIN diode attenuator looks to (IMO) be a lot of trouble to solve something that is a non-problem for most people, and a better method might be to re-engineer the negative feedback in the predriver and PA circuits for better gain flatness across the spectrum. Particularly in the predriver; I may revisit that at some point, as I'm not completely happy with my fix for the 40 Meter oscillation problem, and I think that the feedback networks could be further improved. I probably should learn how to model those circuits in software ... maybe I'll have time after I retire. :)

I note also that he comments about reversing the direction of the fan; I have previously debunked this notion as being less than desirable and published the info on the internet (QST subsequently picked it up also). It is one good way to increase drift across T/R cycles. It seems to me that using a thermostatically controlled fan may also contribute to increased drift, but I don't currently have much interest in empirically testing this. Maybe somone else can try it. I'm not opposed to technically sound mods, but even something as simple as saying "reverse the fan" should be tested to see how it affects the "big picture" before it becomes universally accepted.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750,
IBM PS/2 - all vintage, all the time!

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for a lifetime."

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6254. Re: [DrakeRadio] TR7 1st and second Mixer's

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 17:28:25 UTC
From: Keith Evans
Topic: 6246 Message: 6254

Hi again Jim,

Yes I am with you, re your comments.

The VFO stabilising circuit maybe a reasonable addition, I see a UK company produces a smaller more modern version, but their out of stock, but a new version should be available Dec !!!
I think that was added by an SM station to his TR7 I saw on the i/net

My 1st TR7 had the earlier driver, which failed after about 18 month's, The Drake agent in the UK
Fixed it, and later I purchased an upgrade kit with the later ver2 PCB.
I have not suffered the Thermal runaway issue with the ver2 board, on either the upgraded TR7 or the much later one, but sometime when I next have the covers off I may add the resistors to it.

It was the Thread I read from KE9OA, that got me thinking re the 2 mixer mods as I figuerd to get
that much better Noise Floor, with such little effort, was quite a bonus.

73
Keith

----- Original Message -----
From: Jim Shorney
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 23, 2011 5:09 PM
Subject: Re: [DrakeRadio] TR7 1st and second Mixer's

Hi Keith,

On Fri, 23 Dec 2011 14:47:38 -0000, Keith Evans wrote:

>I modded my original TR7 back in the late 80's with HP Diodes, it was the original 8 diode setup, and I found,
>minimal differance on that radio. Perhaps I should have swopped it to the 4 diode / 4 resistor setup.

I modded one for a friend that had the 8-diode setup, which I changed to diode/resistor. That may have been the one that I noted minimal improvement on, I'd have to see if I have info in my notes on it. I used Schottky diodes that I purchased in bulk on tape-and-reel packaging from a UK ePay seller, and curdely hand-sorted them for matching with my Fluke VOM. At any rate, it didn't seem to hurt the preformance any, so I left them in.

>re The 1st Mixer, I see that DK4DDS has a Circuit on his website of a design, That seems to match the Ports
>in a much better (far more complex) way than the original, and that uses a SAY-1 Mixer.

>This maybe from the article that was in the German magazine refered to a week or so back.
>Is the same guy who had the ARRL Article when he had a PA0 call

I've seen his articles, that's a pretty radical rebuild. I find some of it interesting, but I think that some things could be done just as well, or better, with modern outboard accessories. I disagree with his comments about the PA deck, the Drake design is about as bulletproof as I have ever seen without fancy protection methods and seems quite reliable. The predriver seems a bit problematic, especially the early version, but that's another story. The PIN diode attenuator looks to (IMO) be a lot of trouble to solve something that is a non-problem for most people, and a better method might be to re-engineer the negative feedback in the predriver and PA circuits for better gain flatness across the spectrum. Particularly in the predriver; I may revisit that at some point, as I'm not completely happy with my fix for the 40 Meter oscillation problem, and I think that the feedback networks could be further improved. I probably should learn how to model those circuits in software ... maybe I'll have time after I retire. :)

I note also that he comments about reversing the direction of the fan; I have previously debunked this notion as being less than desirable and published the info on the internet (QST subsequently picked it up also). It is one good way to increase drift across T/R cycles. It seems to me that using a thermostatically controlled fan may also contribute to increased drift, but I don't currently have much interest in empirically testing this. Maybe somone else can try it. I'm not opposed to technically sound mods, but even something as simple as saying "reverse the fan" should be tested to see how it affects the "big picture" before it becomes universally accepted.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

[Non-text portions of this message have been removed]

6255. Re: [DrakeRadio] TR7 1st and second Mixers

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 18:03:55 UTC
From: Jim Shorney
Topic: 6246 Message: 6255

Hi Keith,

On Fri, 23 Dec 2011 17:28:25 -0000, Keith Evans wrote:

>The VFO stabilising circuit maybe a reasonable addition

To each their own. I find my TR-7 to be quite stable enough after warm-up. But then, my first SW receiver was an S-120, my first HF rig an HW-101, so that tells you where I come from.

>I have not suffered the Thermal runaway issue with the ver2 board, on either the upgraded TR7 or the much later one, but sometime when I next have the covers off I may add the resistors to it.

I installed the resistor mod when I reworked my entire PA deck a week prior to Field Day a few years back (details in the Drakelist online forum). My predriver output transistor seemed to be a little "tired", although it still had output, so I replaced it with a more modern device for the high frequency gain benefit. Heat production did seem a bit less with the resistors, so I can't say that it hurt anything. They could always be bypassed at RF also, to get back to about the same point as before from an AC standpoint while keeping the DC runaway protection. Whatever. :)

>It was the Thread I read from KE9OA, that got me thinking re the 2 mixer mods as I figuerd to get
>that much better Noise Floor, with such little effort, was quite a bonus.

I'm looking at under a quarter of a microvolt MDS on my TR-7, as I recall, and it doesn't get much better than that for HF. I would be interested in the amount of improvement that some of these other mods display, but I have a hunch that much of it won't be worth the effort 99% of the time. I'm looking into noise in the RX audio chain at the moment. The 2N3904 is a good generic workhorse, but is not an exceptionally quiet device. I have some BC549B on order that have better noise figure specs, and will be changing out 3904s to see what difference it makes. An audio guru I work with also recommended LOTS of filter capacitance on the power rail to the audio PA chip, that's easy enough. I saw a note some years ago from a ham who added a low-pass R/C filter in the audio chain to reduce the bandwidth for better CW copy. I corresponded with him about changing the filter values for SSB operation to cut some of the high frequency hiss, but he didn't have the info any more that he used on the circuit impedances and didn't seem to be interested in going down that road. At the time, I was into Mode A satellites with 10-meter downlinks (IOW, weak-signal work), and the HF hiss was quite annoying in the headphones. I ended up parking a RadShack DSP-40 inline, an effective enough fix.

73

-Jim

--
Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

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http://www.nebraskaghosts.org

6256. Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 19:08:45 UTC
From: David Rogers
Topic: 6162 Message: 6256

The specs on the filters and noise blanker in these two radios look very similar. Other than the passband tuning and the fact that the SPR-4 is fully solid state, are these radios essentially similar, performance-wise?

David, WA7ZYQ

[Non-text portions of this message have been removed]

6257. Re: [DrakeRadio] Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 19:12:32 UTC
From: navydude1962@yahoo.com
Topic: 6162 Message: 6257

Is your desire to have a gc rx or ham bands only? It an apples and oranges comparison with all due respect

Sent from my iPhone

On Dec 23, 2011, at 11:08, "David Rogers" <wa7zyq@...> wrote:

> The specs on the filters and noise blanker in these two radios look very similar. Other than the passband tuning and the fact that the SPR-4 is fully solid state, are these radios essentially similar, performance-wise?
>
> David, WA7ZYQ
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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6258. Re: [DrakeRadio] Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 19:48:49 UTC
From: Don Cunningham
Topic: 6162 Message: 6258

David,
With all due respect to others' feelings, it IS an apples and oranges question. The R4B in my mind is THE best receiver Drake ever made until maybe the R7/R8 series. It is not just ham bands only either, with the addition of optional band crystals, it is an EXCELLENT general coverage receiver. 4kc is a bit narrow for international broadcast, unfortunately, the only downside in my mind, and I don't know if the SPR-4 is better in that regard. That might make it a better choice for "general" listening.
73,
Don, WB5HAK

[Non-text portions of this message have been removed]

6259. Re: [DrakeRadio] Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 20:02:36 UTC
From: navydude1962@yahoo.com
Topic: 6162 Message: 6259

I agree with Don in that the R4b is a great receiver but crystals are expensive and hard to come by. An FS4 is a nice addition but that adds $300 to the price tag IF you can find one. The SPR4 goes for about 350 and is plug n play. It stays cooler because it's solid state and the chassis doesn't oxidize like the R4b.

If you don't plan to use it with a transmitter and you're looking for something that receives sw and ham bands I think the SPR4 is a more suitable choice. If you want to add a tx later you will need the FA4 interface. With all due respect :-)

Sent from my iPhone

On Dec 23, 2011, at 11:48, "Don Cunningham" <donc@...> wrote:

> David,
> With all due respect to others' feelings, it IS an apples and oranges question. The R4B in my mind is THE best receiver Drake ever made until maybe the R7/R8 series. It is not just ham bands only either, with the addition of optional band crystals, it is an EXCELLENT general coverage receiver. 4kc is a bit narrow for international broadcast, unfortunately, the only downside in my mind, and I don't know if the SPR-4 is better in that regard. That might make it a better choice for "general" listening.
> 73,
> Don, WB5HAK
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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6260. Re: [DrakeRadio] Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 22:28:04 UTC
From: David Rogers
Topic: 6162 Message: 6260

I appreciate the responses, but they don't address the question I was trying to ask, which was: how does the filtering and the noise blanker in the SPR-4 compare to the filtering and noise blanker in the R4B? I have two SPR-4's, and two R4C's. I have no R4B, so I can't do the comparison.

Thanks,

David, WA7ZYQ

----- Original Message -----
From: navydude1962@...
To: DrakeRadio@yahoogroups.com
Cc: <DrakeRadio@yahoogroups.com>
Sent: Friday, December 23, 2011 12:02 PM
Subject: Re: [DrakeRadio] Drake R4B and SPR-4

I agree with Don in that the R4b is a great receiver but crystals are expensive and hard to come by. An FS4 is a nice addition but that adds $300 to the price tag IF you can find one. The SPR4 goes for about 350 and is plug n play. It stays cooler because it's solid state and the chassis doesn't oxidize like the R4b.

If you don't plan to use it with a transmitter and you're looking for something that receives sw and ham bands I think the SPR4 is a more suitable choice. If you want to add a tx later you will need the FA4 interface. With all due respect :-)

[Non-text portions of this message have been removed]

6261. Re: [DrakeRadio] Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-23 23:02:26 UTC
From: navydude1962@yahoo.com
Topic: 6162 Message: 6261

Oh! The filtering in the R4B is the LC type while the SPR 4 has a crystal filter with minimal ringing albeit much wider. The NB in the SPR4 is superior to that of the R4b especially for pulsating noise. But IMHO nothing beats a late serial numbered Sherwood modified R4C with all the filters and an aligned NB4.

73
Ed NI6S

Sent from my iPhone

On Dec 23, 2011, at 14:28, "David Rogers" <wa7zyq@...> wrote:

> I appreciate the responses, but they don't address the question I was trying to ask, which was: how does the filtering and the noise blanker in the SPR-4 compare to the filtering and noise blanker in the R4B? I have two SPR-4's, and two R4C's. I have no R4B, so I can't do the comparison.
>
> Thanks,
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: navydude1962@...m
> To: DrakeRadio@yahoogroups.com
> Cc: <DrakeRadio@yahoogroups.com>
> Sent: Friday, December 23, 2011 12:02 PM
> Subject: Re: [DrakeRadio] Drake R4B and SPR-4
>
>
>
> I agree with Don in that the R4b is a great receiver but crystals are expensive and hard to come by. An FS4 is a nice addition but that adds $300 to the price tag IF you can find one. The SPR4 goes for about 350 and is plug n play. It stays cooler because it's solid state and the chassis doesn't oxidize like the R4b.
>
> If you don't plan to use it with a transmitter and you're looking for something that receives sw and ham bands I think the SPR4 is a more suitable choice. If you want to add a tx later you will need the FA4 interface. With all due respect :-)
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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6262. Re: Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-24 14:15:18 UTC
From: Bry Carling
Topic: 6162 Message: 6262

Guys - I have quite a few crystals available for the Drake R4 series receivers if anyone needs them:

http://www.af4k.com/hc6u_crystals.htm#drake

73 - Brian, AF4K

Posted by: navydude1962 <navydude1962@...>

Date: Fri Dec 23, 2011 12:03 pm ((PST))

>I agree with Don in that the R4b is a great receiver but crystals are expensive and hard to
come by.

[Non-text portions of this message have been removed]

6263. Re: [DrakeRadio] Re: Drake R4B and SPR-4

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-24 16:47:54 UTC
From: g4jss@tiscali.co.uk
Topic: 6162 Message: 6263

Hi Bry
Looking for a 20.8 for a T-4XC 30m band.
Hope you have a good holiday season.
Vic
G4JSS

6264. File - Bi-Weekly Statement

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-25 19:56:55 UTC
From: DrakeRadio@yahoogroups.com
Topic: 206 Message: 6264

All group members are welcome to post on this message board, so for those that have questions please don't be shy and for those that have answers, please feel free to give advice to others. No one is 'keeping score' (I hope!)

PLEASE use the 'Reply All' function of your e-mail client so replies are posted to the list. A 'Reply' to the original poster ONLY, deprives the rest from seeing an answer, AND greatly diminishes the value of the List archives.

For those of you that have not introduced yourself we welcome you to do so and please feel free to upload your station pictures to the photos section of our group's home page, as well as links to Drake information or your homepage.

Just a word of advice for R-7 / TR-7 owners 'with a problem'. I estimate that 90% of 'failures' in these units are caused by minor oxidation of a switch, the card and/or cable connectors. Whether it's a problem that just shows up at turn-on, -OR-, after the unit has been unused for a while, DeoxIT'ing switches and just re-seating cards and connectors will often get it going again. If not, you know where we are!

73, Garey - K4OAH

6265. Faulty TR-7, I have nearly tried everything!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 07:43:33 UTC
From: rogerdon98
Topic: 6265 Message: 6265

G'day all.

I have an early TR-7, I do not know its history and it arrived dead.

The series pass transistor on the PSU board (the one with flying leads to chassis) was shorted, a replacement just arrived today from the USA.

Put it in, the radio has audio hiss, but no rx, no digital display, but the passband tune does alter the audio hiss pitch.

I noticed after a minute or so the right side of the chassis (where the pass transistor is mounted) was getting very hot, it was drawing nearly 4 amps !, I would say something somewhere is shorted out and causing the abnormal current drain, so I started pulling bits out.

I have got to the stage of pulling EVERY plug in board out, dial lamps, disconnected the V+ line to the ALC board (as its not unpluggable), disconnected the PA/Driver stage but still drawing a bit over 2 amps which I'd say is way too much.

Has anyone had this problem before? I'd really like to get this TR7 working. Or any ideas ? About the only sections Ive not removed are the low pass/ high pass units as they look quite complex to pull out, I have not attempted to remove the PTO either.

Thanks. Ross VK3BRN

6266. Re: [DrakeRadio] Faulty TR-7, I have nearly tried everything!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 12:29:48 UTC
From: Keith Evans
Topic: 6265 Message: 6266

Hi Ross,

Do you have the Service manual??
If not you can download it I think off the Internet A big file though.

The PA supply is seperate from the rest of the Rig. It is on a different Pin on the 4 way socket.

I would check the power regulator board 1st to make sure that is giving the regulated 10 Volts, and that no Tantalum Caps in that area have gone short.

FWIW
Keith G3VKW

----- Original Message -----
From: rogerdon98
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 30, 2011 7:43 AM
Subject: [DrakeRadio] Faulty TR-7, I have nearly tried everything!

G'day all.

I have an early TR-7, I do not know its history and it arrived dead.

The series pass transistor on the PSU board (the one with flying leads to chassis) was shorted, a replacement just arrived today from the USA.

Put it in, the radio has audio hiss, but no rx, no digital display, but the passband tune does alter the audio hiss pitch.

I noticed after a minute or so the right side of the chassis (where the pass transistor is mounted) was getting very hot, it was drawing nearly 4 amps !, I would say something somewhere is shorted out and causing the abnormal current drain, so I started pulling bits out.

I have got to the stage of pulling EVERY plug in board out, dial lamps, disconnected the V+ line to the ALC board (as its not unpluggable), disconnected the PA/Driver stage but still drawing a bit over 2 amps which I'd say is way too much.

Has anyone had this problem before? I'd really like to get this TR7 working. Or any ideas ? About the only sections Ive not removed are the low pass/ high pass units as they look quite complex to pull out, I have not attempted to remove the PTO either.

Thanks. Ross VK3BRN

[Non-text portions of this message have been removed]

6267. Re: Faulty TR-7, I have nearly tried everything (Im starting to get there)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 13:20:06 UTC
From: rogerdon98
Topic: 6265 Message: 6267

G'day Keith.....Yes I have a full service manual and extender boards. Since my last post (Ive been working on it the whole time) I found a shorted tantalum on the 5V rail on the underside of the motherboard. What happened was I assumed (bad move!) that because I could see 5V around the logic sections it was ok, then I noticed there is a 5v rail straight off the psu board which is just tapped off the 10V rail. I removed a wire from the underside of the PSU board (the 5V line) and no change..finally (with a big magnifier) I noticed there were 2 wires coming off this 5V tap...followed it through and first thing it came to was a couple of tantalums....and that was it!!!
Still has faults though.....

1. The last 2-3 digits of the display are jumping around, but it is not moving in frequency.

2. The RX is normal but the audio qlty is very poor...it sounds like a chainsaw running in the background all the time....it gets even worse when the CAL button is pushed in. Its so bad its unusable at the moment but signals are very strong and the sensitivity seems ok., Ive not tested the TX Audio but its putting out full output

I have another good working TR7 but would really like to get this one running without doing "board swaps"

Regds

Ross VK3BRN

--- In DrakeRadio@yahoogroups.com, "Keith Evans" <g3vkw@...> wrote:
>
> Hi Ross,
>
> Do you have the Service manual??
> If not you can download it I think off the Internet A big file

6268. 1b. Re: Faulty TR-7, I have nearly tried everything!

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 13:26:58 UTC
From: Paul Horvitz
Topic: 6268 Message: 6268

Hi Ross,
I had a problem recently with my TR7 which had same symptoms as yours. That pass transistor got so hot in 3 or 4 seconds It would almost burn skin off finger when touched.
Same other symptoms as yours too.

Turned out I had plugged the translator board in to the molex pin header mounted on parent board wrong. It felt good when going in, sort of a sliding friction feel, but when looking at marks left by translator board on side of shield I could see it was not quite vertical. The pins from parent board molex were slid in up against foil on PCB of translator, rather than where they should have been, inside female molex header and some were shorting to ground. Drove me nuts till I asked here and got a tip about this!

Shorting those pins to gnd also opened up a transistor junction on the transmit exciter board. The transistor was doing what it should...acting like a fuse. I had no Rx audio, or AGC...S meter would not move when RF gain was full CCW.
It was a 2N3904 that shorted on the 10v reg DC line, I think it was Q308. Since you still have Rx audio hiss, yours is probably OK though. The 10v reg line for Rx is what died on mine after my shorting those translator board pins enough times and I had no audio at all eventually. Q308 acts as a switch to give 10v reg on for when TR7 is in Rx.

The sequence of posts about it are in here if you do a search.
Good luck!
My TR7 has been in daily use since with no troubles.
It was an easy thing to have happened, hard to see down in there where it plugs in.!

73,
Paul
WA6IAF

[Non-text portions of this message have been removed]

6269. Re: [DrakeRadio] Re: Faulty TR-7, I have nearly tried everything (Im starting to get there)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 13:28:47 UTC
From: Keith Evans
Topic: 6265 Message: 6269

Well done Ross,
re the digits jumping around, have you tried the switch to Freq Counter, and does it still do it??
it maybe corrosion on some of the Plugs and sockets of the DR7, but only guessing,
as I haven't had that problem.
re the Chainsaw, that maybe another Tantelum around the Audio Out Chip.

GL 73
Keith G3VKW

----- Original Message -----
From: rogerdon98
To: DrakeRadio@yahoogroups.com
Sent: Friday, December 30, 2011 1:20 PM
Subject: [DrakeRadio] Re: Faulty TR-7, I have nearly tried everything (Im starting to get there)

G'day Keith.....Yes I have a full service manual and extender boards. Since my last post (Ive been working on it the whole time) I found a shorted tantalum on the 5V rail on the underside of the motherboard. What happened was I assumed (bad move!) that because I could see 5V around the logic sections it was ok, then I noticed there is a 5v rail straight off the psu board which is just tapped off the 10V rail. I removed a wire from the underside of the PSU board (the 5V line) and no change..finally (with a big magnifier) I noticed there were 2 wires coming off this 5V tap...followed it through and first thing it came to was a couple of tantalums....and that was it!!!
Still has faults though.....

1. The last 2-3 digits of the display are jumping around, but it is not moving in frequency.

2. The RX is normal but the audio qlty is very poor...it sounds like a chainsaw running in the background all the time....it gets even worse when the CAL button is pushed in. Its so bad its unusable at the moment but signals are very strong and the sensitivity seems ok., Ive not tested the TX Audio but its putting out full output

I have another good working TR7 but would really like to get this one running without doing "board swaps"

Regds

Ross VK3BRN

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[Non-text portions of this message have been removed]

6270. Re: [DrakeRadio] Re: Faulty TR-7, I have nearly tried everything (Im starting to get there)

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-30 23:04:45 UTC
From: Jim Shorney
Topic: 6265 Message: 6270

On Fri, 30 Dec 2011 13:20:06 -0000, rogerdon98 wrote:

>1. The last 2-3 digits of the display are jumping around, but it is not moving in frequency.
>
>2. The RX is normal but the audio qlty is very poor...it sounds like a chainsaw running in the background all the time....it gets even worse when the CAL button is pushed in. Its so bad its unusable at the moment but signals are very strong and the sensitivity seems ok., Ive not tested the TX Audio but its putting out full output
>
>I have another good working TR7 but would really like to get this one running without doing "board swaps"

Replace the electrolytic filter capacitor in the DC-DC converter that provides the +24v supply on the PS board. These can cause strange problems when they go bad, and should be replaced anyway as a part of maintenance even if not the source of your problem. It's time. Also look at any electrolytics on the DR-7.

73

-Jim
NU0C

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Ham Radio NU0C
Lincoln, Nebraska, U.S.S.A.
TR7/RV7/R7A/L7, TR6/RV6, T4XC/R4C/L4B, NCL2000, SB104A, R390A, GT550A/RV550A, HyGain 3750, IBM PS/2 - all vintage, all the time!

"Give a man a URL, and he will learn for an hour; teach him to Google, and he will learn for a lifetime."

HyGain 3750 User's Group - http://groups.yahoo.com/group/HyGain_3750/
http://incolor.inetnebr.com/jshorney
http://www.nebraskaghosts.org

6271. Re: [DrakeRadio] Re: Faulty TR-7, I have nearly tried everything (Im starting to

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-31 16:06:43 UTC
From: Paul Horvitz
Topic: 6271 Message: 6271

I see you got that 10 reg solved, great!
Time lag here as I chose to get daily emails from group.

Have a great new year all.
73,
Paul
WA6IAF

6272. Daiwa RF-440 speech processor manual

Yahoo group: DrakeRadio (2006 — 2011)
Date: 2011-12-31 22:36:05 UTC
From: stephen
Topic: 6272 Message: 6272

Hi group,

I am looking for the users manual and/or schematic for the external speech processor termed Daiwa RF-440, which was often used on Drake and other rigs of this vintage. One guy offers to sell you the PDF on ebay, but, there must be a better way for hams to share information.

steve
W3RX